

C19.2

SUPPLEMENT

Quarter-Turns
Swinghandles
Multi-Point Latches
Latches
Locks
Fasteners
Hinges
Gaskets
Handles



Additions to the Main Catalog C19.

In our new brochure C19.2, discover all DIRAK **product innovations** as well as an updated listing of all product components that cannot be found in the main catalog C19.

At the same time, the new fold-out pictogram system on this page allows you to quickly and easily compare product advantages at all times and at a glance.

The DIRAK **overall range** of over 4,500 products can still be found on our website, **DIRAK.com**.

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All measurements in the catalog are given in mm.

Design: jungepartner.de, Photo credits: p.2 Thinkstock/p.181 Getty Images 175140091 / Martin Barraud; all others: DIRAK GmbH Marketing Department.

	All (=black)/some (=gray) products on this page have this feature	
	Stainless steel	
	Pr14.1: cutout size 14,1 mm/ Pr20.1: cutout size 20,1 mm	
	Standard cutout size swinghandle	
	Hygienic design	
	Product line base	
	Profile half-cylinder in accordance with DIN 18252	
	Safety-tested in accordance with DIN EN 1627	
		Product suitable for round rod / flat rod
	Product is grounded if correctly installed	
		Captive seal: foamed PUR seal / pressed in o-ring
	Shock- and vibration-tested in accordance with DIN EN 61373	
	IP protection classes 54, 65, 67, 66, 69K as respectively indicated	
	RH/LH application	
	Tool-less installation	
	Maximum recommended tightening torque for securing nuts of the quarter-turns	
	Max. recommended tightening torque for the serrated screw	
	Individual or adjacent cabinets	
	Door nested, hinge visible/invisible	
	Door surface-mounted, hinge visible/partly visible/invisible	
	Opening angle of hinges from 90° to 360°	
	Hinge lift-off	
	UR/UL certification	
	UL-listed materials	
	Conforms to RoHS and WEEE directives	
	Specific accessories	



pioneering: for 25 years.

With your requirements in focus and pioneering ideas on our minds, we have been developing and selling innovative fitting components for industrial enclosures since 1991. Thanks to a high number of patents and an international orientation, we have developed into one of the leading technology and system suppliers in the field.

Whether mechanical or mechatronic – take advantage of our expertise for your application:



Machinery and plant engineering



Sheet metal working industry



Transportation / vehicle construction



Food production



Energy and environmental technology



Medical equipment construction



Data center, IT



Heating, ventilation, air-conditioning (HVAC)



Traffic engineering / tunnel construction



precise:
every day, down to the detail.



Our specialists and development partners take an interdisciplinary approach and **work closely with one another**. They develop solutions from individual conception and production planning through the strictly supervised production process all the way to delivery. That is how we ensure a complete service chain, all the way to order fulfillment.

more than **4,500** catalog-products



Installation and logistics center

Location: Sprockhövel, Germany

- Automated small parts warehouse with a continuous conveyance system from receipt of goods to shipment
- Over 200 commissionings per hour
- 19,200 storage spaces
- More than 300 packages per day

Corporate headquarters

Location: Ennepetal, Germany



over **500** employees worldwide

**ENGINEERED
IN GERMANY
SINCE 1991**

The construction and assembly in two locations in Germany on the basis of the highest quality standards ensures the distribution of only top-quality products.

SNAP

With particular competence in the field of tool-less installation, we develop solutions for fixing and quickly connecting diverse components.

over

400

patents

E-LINE
by DIRAK

Our brand for mechatronic locking solutions, **E-LINE by DIRAK**, offers product systems in a modular design for data and server racks, outdoor enclosures and industrial applications. With our product solutions, you can control access to and manage the security of your enclosures – whether it's as a stand-alone solution or integrated into a management system. The entire product range can be found at elinebydirak.com.

Find solutions
on DIRAK.com





personal:
worldwide.



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- Distributors



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Multi-point latches > 3-200

Products Solutions Company News Services **Contact**

DIRAK 3-200 Rod Latch with Compression RS/FS PnC

Material:
 • Housing, rods, clamps, pinion: zinc die

Benefits:

- Rod Latch with compression 4mm.
- The closing process in two steps:
 1. A 90° turn of the Swinghandle brings the cam into the locked position.
 2. With another 45° turn the cam is pressed by 4mm against the clamping surface.
- Constant contact pressure over the entire edge length.
- Installation within the sealed area.
- Single or multi-point latching by using of additional latching devices.
- The connecting devices can be fixed easily in latching devices with 8mm or Flat rods clamps.
- Round rods 8mm can be used.
- 3x1.4mm hole allows tolerance compensation of the housings.
- Usable with Swinghandles PnC opening and closing operation 135°.
- Please contact DIRAK.
- Stroke 23mm.
- Rotation of the cam 65°.
- RH and LH Version.

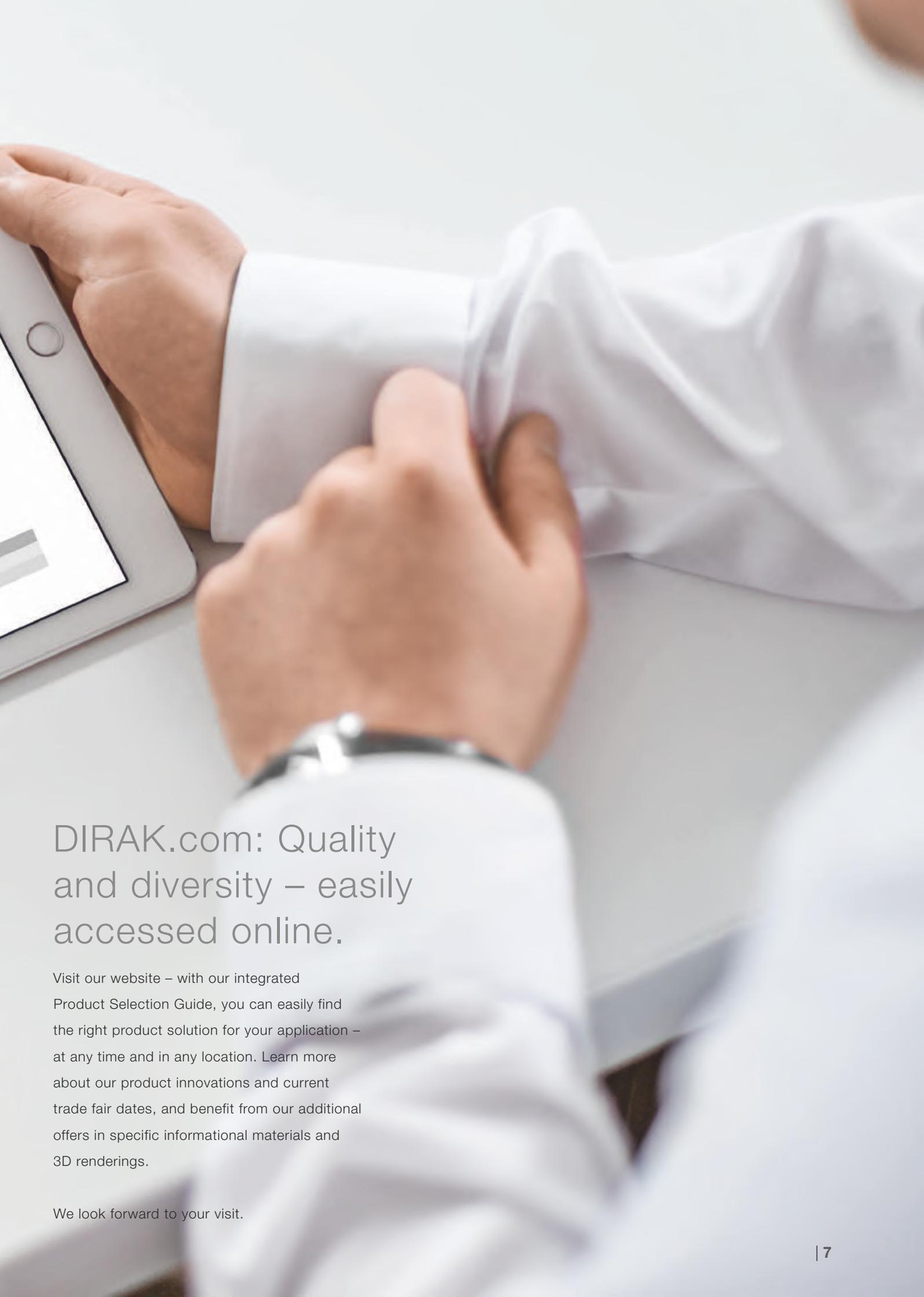


Rod latch with compression, 2 rods		Version	Installation type
Part Number		LH	PC-Rev-on
		RH	scf-Rev-on

Stroke
 23 mm
 13 mm

Part Number	Version	Download as PDF
a) 208-9074.00-00000	LH	<input type="checkbox"/>
a) 208-9077.00-00000	RH	<input checked="" type="checkbox"/> To wish list

Rod latch with compression, 1 rod



DIRAK.com: Quality and diversity – easily accessed online.

Visit our website – with our integrated Product Selection Guide, you can easily find the right product solution for your application – at any time and in any location. Learn more about our product innovations and current trade fair dates, and benefit from our additional offers in specific informational materials and 3D renderings.

We look forward to your visit.

Product Overview



12 PA Fastener
9.5 and 12.7
SNAP-LINE



13 Captive Flex-Fastener
9.5
SNAP-LINE



14 Captive Flex-Fastener
9.5
SNAP-LINE



15 Captive Fastener
9.5 SNAP-LINE



16 Captive Fastener
12.7 SNAP-LINE



17 Fastener 9.5
SNAP-LINE



18 Captive Fastener
9.5 SNAP-LINE



19 Captive Fastener
18.7 SNAP-LINE



20 Fastener 30x14
SNAP-LINE



21 Cam Catch
SNAP-LINE



22 Compression
Latch Pr19.1



25 Compression
Latch Pr22.1
with Flap



26 Quarter-Turn
Pr20.1 L12



29 Safety Quarter-Turn
Pr20.1 L18



30 Quarter-Turn 2K
Pr20.1 L18



32 Quarter-Turn PrA
SNAP-LINE



34 Quarter-Turn
Pr20.1 L18



35 Roller Cam
height adjustable



36 Flush Quarter-Turn
L22-66



39 Cylinder Quarter-Turn
Pr20.1
L30-50



40 Flush Latch with
integrated Hinge
Function



42 Rod Guides for
8 mm Round
Rods



43 Rod Guides



44 Cam Adapter and
Spacer



45 Dust Cap and
Sealing Plug
Pr20.1



46 Finger Pull for
Quarter-Turn
Pr20.1



47 LED Module for
Quarter-Turns
Pr20.1



48 Sliding Door Latch



52 Swinghandle RS
PrC SNAP-LINE



54 Swinghandle RS
110 SNAP-LINE



56 Swinghandle RS
110 SNAP-LINE



58 Swinghandle RS
PrC SNAP-LINE



50 Swinghandle RS PrC with Cylinder Barrel



60 Swinghandle zinc die RS 105 for PHZ, RC II



62 Dual Cylinder Swinghandle RS 105 PA



64 Dual Cylinder Swinghandle RS 130 PA



66 Catch for standard Cams



67 Grounding Clip



68 Escutcheon for Rod Latch PrA



69 Cutout-Cover PrA, PrB and PrC SNAP-LINE



70 Swinghandle base



71 Swinghandle base with LED Module



72 Compression Rod Latch RS/FS PrC



74 Rod Latch Adapter for Compression Rod Latch



75 Rods for Compression Rod Latch



76 Swinghandle for Compression Rod Latch



78 Flat Rod Guide FS



79 Dual Hook FS



80 Concealed Hinge Pr03 125°



81 Concealed Hinge Pr03 120°



82 Concealed Hinge Pr03 120°



83 Concealed Hinge Pr03 120°



84 Concealed Hinge Pr03 120°



85 Concealed Hinge Pr03 120°



86 Concealed Hinge Pr03 120°



87 Concealed Hinge Pr03 120°



88 Concealed Hinge Pr03 120°



89 Corner Hinge Pr04 180°



90 Concealed Hinge Pr02 120° SNAP-LINE



91 Hinge PA 60x40 Pr01 180°



92 Clip-on Sealing Profiles



93 Screw Assembly for Terminal Box Cover



94 Cage Nuts



95 Cage Nuts



96 Wire Catch SNAP-LINE



97 Cable Management Device 12.7 SNAP-LINE



98 Cable Management Device 9.5 SNAP-LINE



99 Clip-on Radius R30 SNAP-LINE



100 Cable Tie Mount SNAP-LINE



101 Cable Tie Mount 9.5 and 12.7 SNAP-LINE



103 Velcro Cable Tie



104 Slam Latch for Profile-Cylinder



105 Slam Latch for two Profile-Cylinder



106 Slam Latch for Insert



107 Lock Support for Slam Latch



108 Snap-Lock SNAP-LINE



109 Bridge Clamp



110 Adjustable Clamping Levers



111 Compression Latch SNAP-LINE



112 Locking Pin with Handle SNAP-LINE



113 Window oval



114 Locking Bar System 10



115 Locking Bar System 13



116 Locking Bar System 16



118 Compression Latch PHZ



120 2-Point Latch PHZ, vertical



124 2-Point Latch PHZ, horizontal



128 Compression Latch PHZ with Lock Cover



142 Compression Latch with Spring Loaded Flap



130 2-Point Latch PHZ with Lock Cover



134 2-Point Latch PHZ with Lock Cover



138 Compression Latch for Insert



141 Latching Device



144 Safety Quarter-Turn Pr20.1 L18



145 Slam-Cam for Quarter-Turns Pr20.1



146 Height Adjustable Cam L45 SNAP-LINE



147 Catch for Cams Pr20.1



148 Compression Latch Pr20.1



150 Compression Latch Pr20.1



153 Quarter-Turn Pr20.1 L18



154 Quarter-Turn with Insert SW13 Pr20.1 L18



155 Hygiene Quarter-Turn with Insert Square SW13



156 Hygiene Quarter-Turn with T-Handle



157 Hygiene Quarter-Turn with L-Handle



158 Hygiene Compression Latch



160 Quarter-Turn Pr20.1 L18-50



161 Cylinder Quarter-Turn Pr20.1 L18



162 Cams L35/45 without Ramp and Stop



163 3- and 4-point Cam Adapter



164 Concealed Hinge Pr03 125°



165 Concealed Hinge Pr03 120°



166 Concealed Hinge Pr03 120°



167 Concealed Hinge Pr03 120°



168 Concealed Hinge Pr03 120°



169 Concealed Hinge Pr03 120°



174 Toggle-Latch



170 Concealed Hinge Pr03 120°



171 Concealed Hinge Pr03 120°



172 Hinge Pr01 180°



173 Hinge Pr01 270°



175 Toggle-Latch



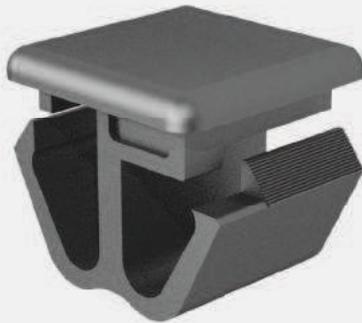
176 Rod Guide

SNAP

DIN
61373



RoHS
WEEE



Polyamide, clip-in Fastener for 9.5 or 12.7 cutout or with 10 mm gap, e.g. aluminium profiles.

Features

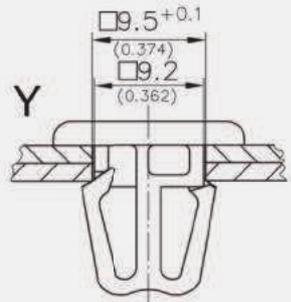
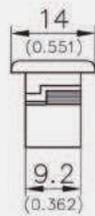
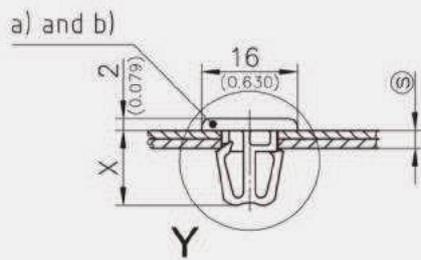
- Clips into the installation cutout for simple tool-less installation.
- Audible click ensures proper secure installation.
- The square base 9.2 and 12.5 prevents the joiner from turning within the installation cutout.

Material and surface

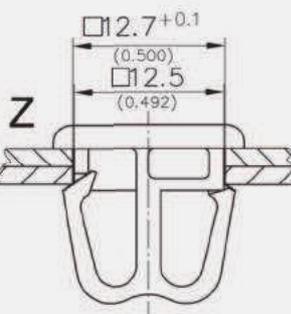
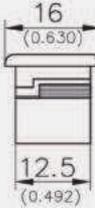
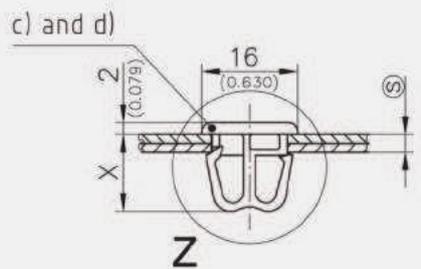
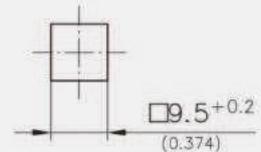
Fastener: PA, black

Note

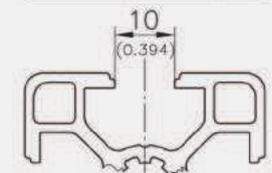
The (S) dimension indicates the total thickness of the sheet metal panels.



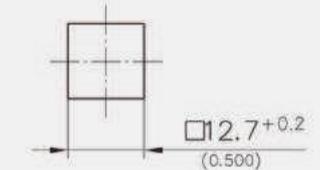
Cutout for a) and b)
incl. paint



Aluminium profile
fit for a) and b)



Cutout for c) and d)
incl. paint



Fastener

	Part Number	Version	Clamping range (S)	Dimension X	Installation type	packaging unit
a)	214-0109.51-00000	9.5	3,0–3,5	12.6	tool-less	250
b)	214-0109.51-10000	9.5	4,0–4,5	13.6	tool-less	250
c)	214-0109.51-20000	12.7	3,0–3,5	13	tool-less	250
d)	214-0109.51-30000	12.7	4,0–4,5	14	tool-less	250

For joining of flat metal sheets acc. to Machinery Directive 2006/42EC (captive connection of locking devices). Operation by Phillips H2.

Features

- Meets machinery directive 2006/42EC.
- Eliminates the concern of loosening, dropping or misplacing hardware.
- Held securely in the cutout.
- Vibration-proof.
- Opening by a ¼ turn of the insert.
- Self-adjusting clamping range of 0.5–5.5 mm.
- Connects panels and securely latches doors and covers.
- One-piece.

Material and surface

- Housing and washer:** zinc die, chrome plated
- Insert:** aluminium, hardened
- U-shaped spring:** stainless steel
- Compression spring:** spring steel, zinc plated
- SNAP wedges:** sintered steel

Note

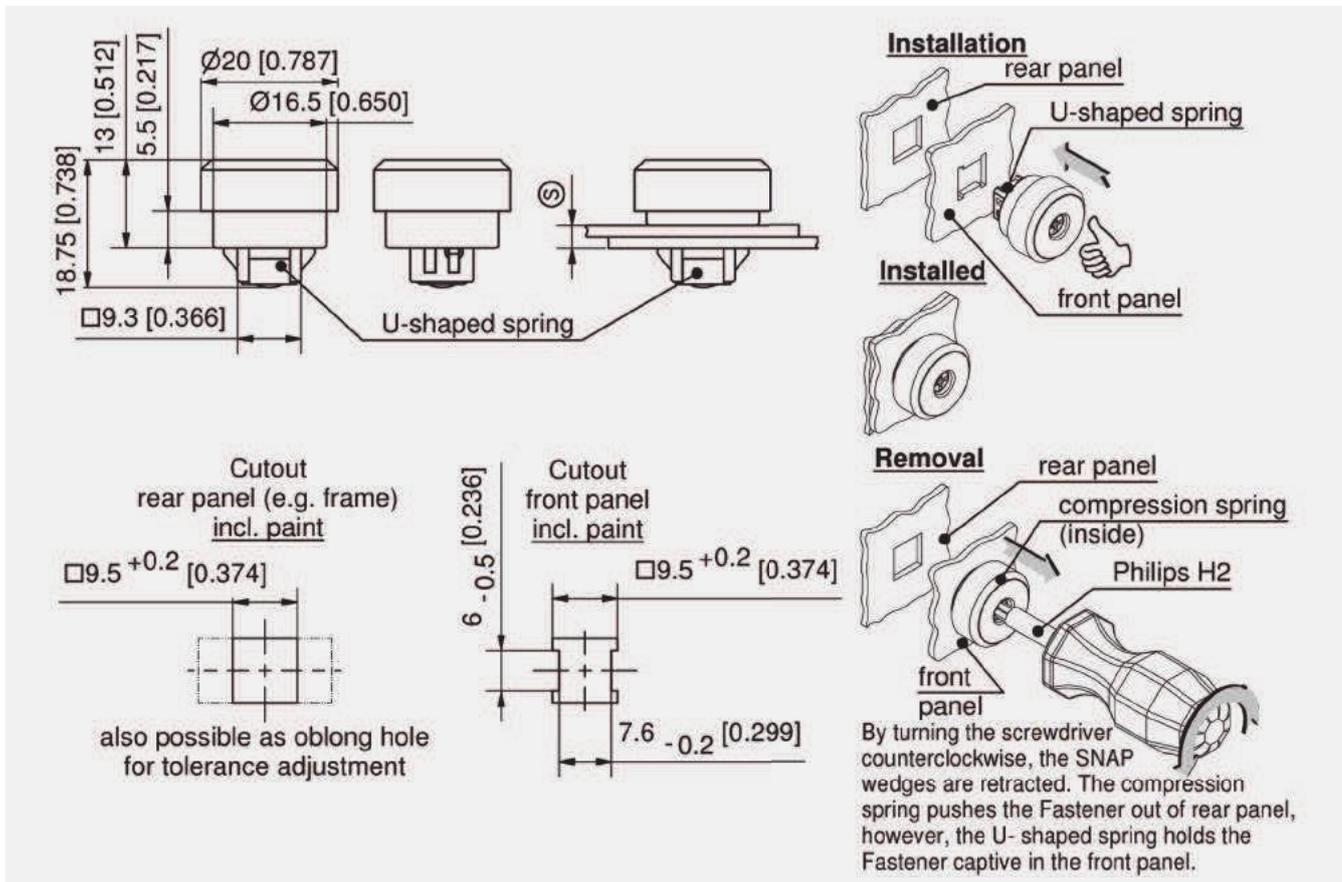
The (S) dimension indicates the total thickness of the sheet metal panels.



SNAP

DIN 61373

RoHS WEEE



Fastener

Part Number	Clamping range (S)	Insert	Vibration-proof	Captive	Installation type
294-9302.00-00055	0,5–5,5	Phillips H2	Yes	Yes	tool-less

SNAP

DIN 61373

RoHS WEEE



For joining of flat metal sheets acc. to Machinery Directive 2006/42EC (captive connection of locking devices). Operation by handwheel.

Features

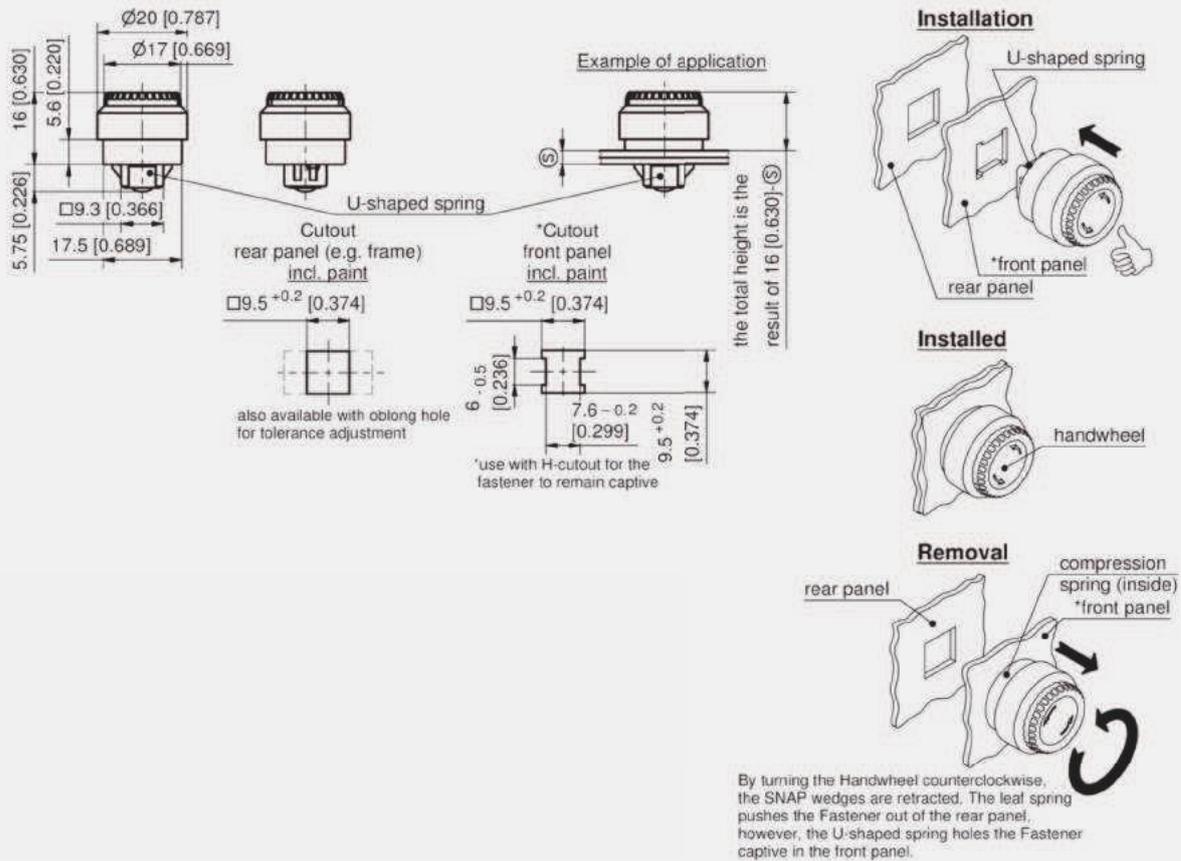
- Meets machinery directive 2006/42EC.
- Eliminates the concern of loosening, dropping or misplacing hardware.
- Held securely in the cutout.
- Vibration-proof.
- Opening by a ¼ turn of the handwheel.
- Self-adjusting clamping range of 0.5–5.5 mm.
- Connects panels and securely latches doors and covers.
- One-piece.

Material and surface

- Housing and washer:** zinc die, chrome plated
- Handwheel:** PA6, black
- U-shaped spring:** stainless steel
- Compression spring:** spring steel, zinc plated
- Snap wedges:** sintered steel, zinc plated

Note

The (S) dimension indicates the total thickness of the sheet metal panels.



Fastener

Part Number	Clamping range (S)	Insert	Vibration-proof	Captive	Installation type
294-9303.00-00055	0,5–5,5	Handwheel	Yes	Yes	tool-less

Captive Fastener for fastening together flat metal panels.

Features

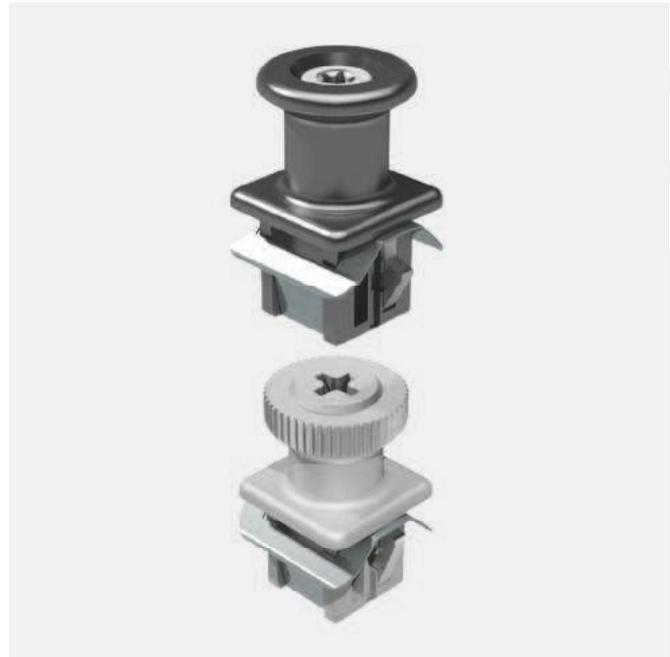
- Meets machinery directive 2006/42EC.
- Eliminates the concern of loosening, dropping or misplacing hardware.
- Held securely in the cutout.
- Vibration-proof.
- Opening by a ¼ turn of the insert.
- Clamping range see table.
- Connects panels and securely latches doors and covers.
- One-piece.

Material and surface

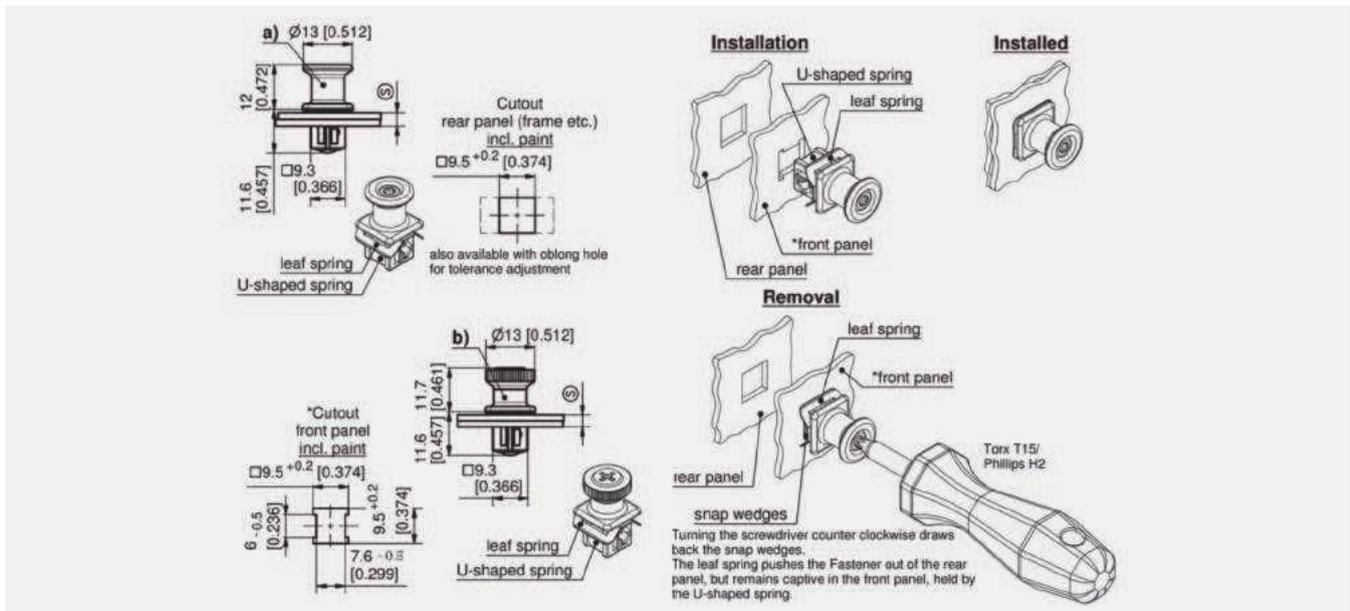
- Housing:** zinc die, chrome plated or black
- Insert:** aluminium, anodized
- U-shaped spring and leaf spring:** stainless steel
- Snap wedges:** sintered steel, zinc plated

Note

The (S) dimension indicates the total thickness of the sheet metal panels.



SNAP
DIN 61373
RoHS WEEE



Fastener, zinc die, chrome plated

	Part Number	Clamping range (S)	Insert	Vibration-proof	Captive	Installation type
b)	294-9210.00-00017	1,5–2,0	Turning knob/Phillips H2	Yes	Yes	tool-less
b)	294-9210.00-00026	2,5–2,8	Turning knob/Phillips H2	Yes	Yes	tool-less
b)	294-9210.00-00034	3,3–3,6	Turning knob/Phillips H2	Yes	Yes	tool-less
b)	294-9210.00-00042	4,1–4,4	Turning knob/Phillips H2	Yes	Yes	tool-less

Fastener, zinc die, black

	Part Number	Clamping range (S)	Insert	Vibration-proof	Captive	Installation type
a)	294-9220.00-00138	3,7–4,0	Torx Insert	Yes	Yes	tool-less
b)	294-9211.00-00017	1,5–2,0	Turning knob/Phillips H2	Yes	Yes	tool-less
b)	294-9211.00-00026	2,5–2,8	Turning knob/Phillips H2	Yes	Yes	tool-less
b)	294-9211.00-00034	3,3–3,6	Turning knob/Phillips H2	Yes	Yes	tool-less
b)	294-9211.00-00042	4,1–4,4	Turning knob/Phillips H2	Yes	Yes	tool-less

SNAP

DIN 61373

RoHS WEEE



For joining of flat metal sheets acc. to Machinery Directive 2006/42EC (captive connection of locking devices). Operation by Phillips H2.

Features

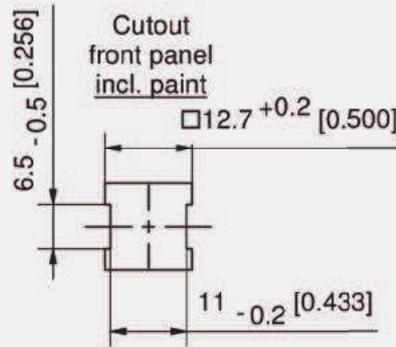
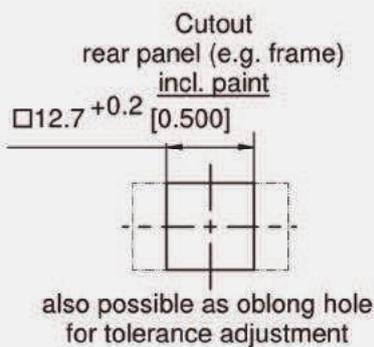
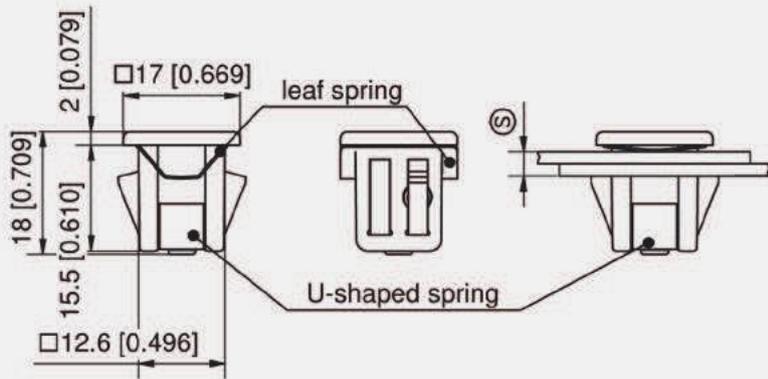
- Meets machinery directive 2006/42EC.
- Eliminates the concern of loosening, dropping or misplacing hardware.
- Held securely in the cutout.
- Vibration-proof.
- Opening by a ¼ turn of the insert Phillips H2.
- Clamping range see table.
- Connects panels and securely latches doors and covers.
- One-piece.

Material and surface

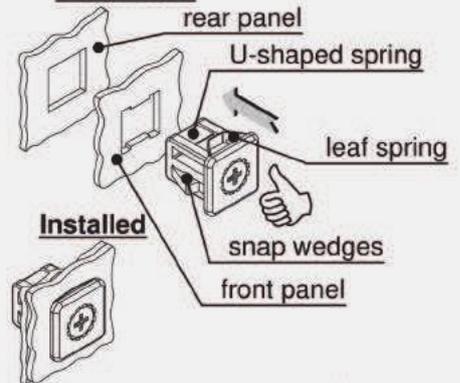
- Housing:** zinc die, untreated
- Snap wedges:** sintered steel
- Insert:** aluminium, hardened
- U-shaped spring:** spring steel
- Leaf spring:** stainless steel

Note

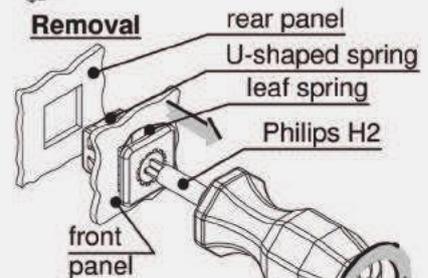
The (S) dimension indicates the total thickness of the sheet metal panels.



Installation



Removal



By turning the screwdriver counterclockwise, the SNAP wedges are retracted. The leaf spring pushes the Fastener out of rear panel, however, the U-shaped spring holds the Fastener captive in the front panel.

Fastener

Part Number	Clamping range (S)	Insert	Vibration-proof	Captive	Installation type
294-9103.00-00021	1,4-1,9	Phillips H2	Yes	Yes	tool-less
294-9103.00-00031	2,4-2,9	Phillips H2	Yes	Yes	tool-less
294-9103.00-00036	2,9-3,4	Phillips H2	Yes	Yes	tool-less
294-9103.00-00041	3,4-3,9	Phillips H2	Yes	Yes	tool-less
294-9103.00-00046	3,9-4,4	Phillips H2	Yes	Yes	tool-less
294-9103.00-00056	4,9-5,4	Phillips H2	Yes	Yes	tool-less
294-9103.00-00061	5,4-5,9	Phillips H2	Yes	Yes	tool-less
294-9103.00-00066	5,9-6,4	Phillips H2	Yes	Yes	tool-less

Fastener for joining sheet metal panels.

Features

- Sheet metal panels are easily joined by manually pushing the Fastener through the panel cutout.
- This Fastener can be disengaged from the front of the panel using a flathead screwdriver.
- Save up to 90% assembly time.
- One-piece.

Material and surface

- Housing:** zinc die, untreated
- SNAP wedges:** sintered steel
- Leaf spring:** stainless steel

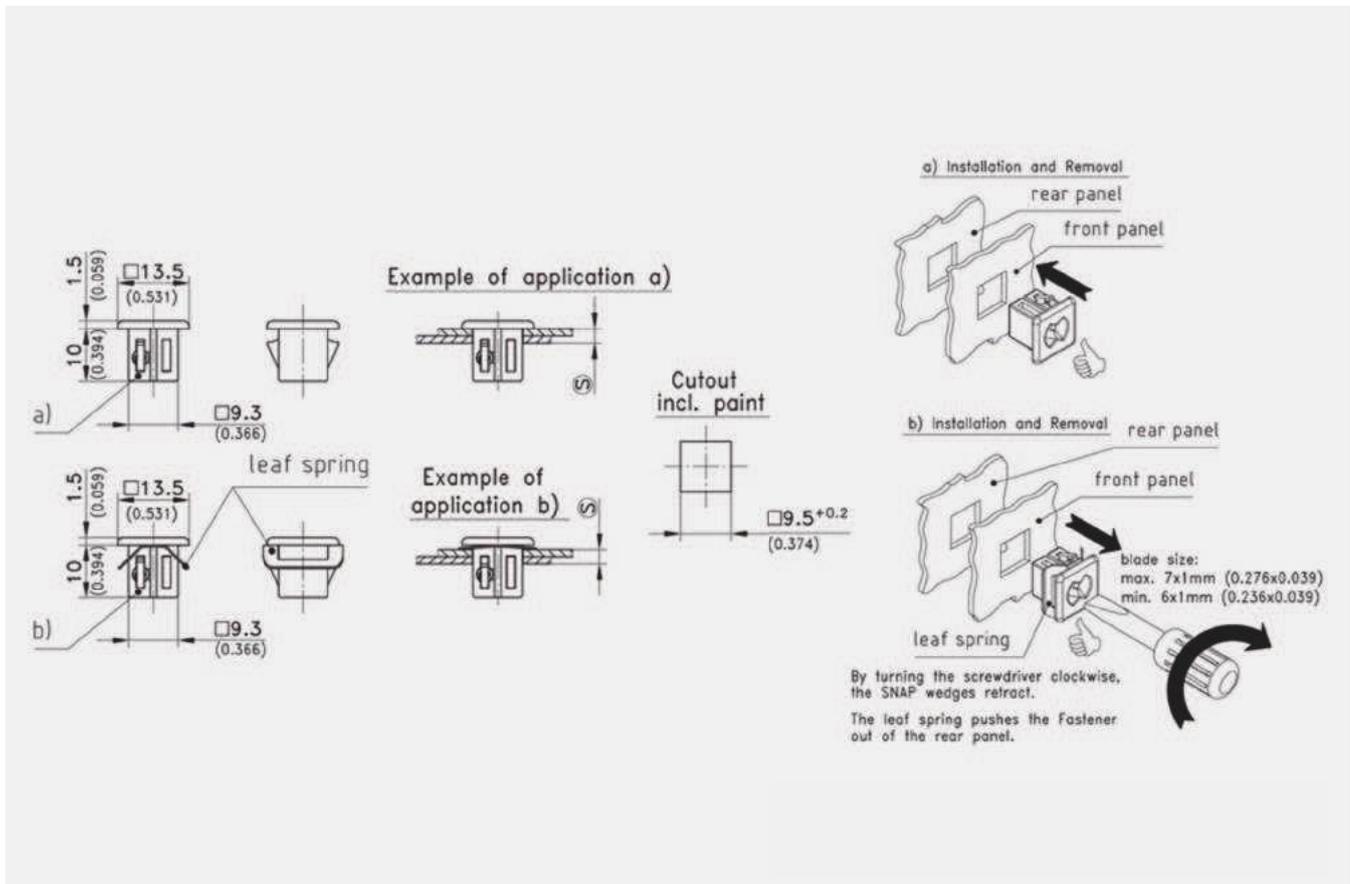
Note

The (S) dimension indicates the total thickness of the sheet metal panels.



SNAP

RoHS
WEEE



Fastener

	Part Number	Version	Clamping range (S)	Insert	Vibration-proof	Installation type
a)	294-9117.00-00022	without leaf spring	2,0–2,5	slotted	Yes	tool-less
a)	294-9117.00-00031	without leaf spring	3,0–3,3	slotted	Yes	tool-less
a)	294-9117.00-00035	without leaf spring	3,4–3,7	slotted	Yes	tool-less
a)	294-9117.00-00043	without leaf spring	4,2–4,5	slotted	Yes	tool-less
b)	294-9116.00-00017	with leaf spring	1,5–2,0	slotted	Yes	tool-less
b)	294-9116.00-00026	with leaf spring	2,5–2,8	slotted	Yes	tool-less
b)	294-9116.00-00030	with leaf spring	2,9–3,2	slotted	Yes	tool-less
b)	294-9116.00-00038	with leaf spring	3,7–4,0	slotted	Yes	tool-less

SNAP

DIN 61373

RoHS WEEE



For joining of flat metal sheets acc. to Machinery Directive 2006/42EC (captive connection of locking devices). Operation by Phillips H2.

Features

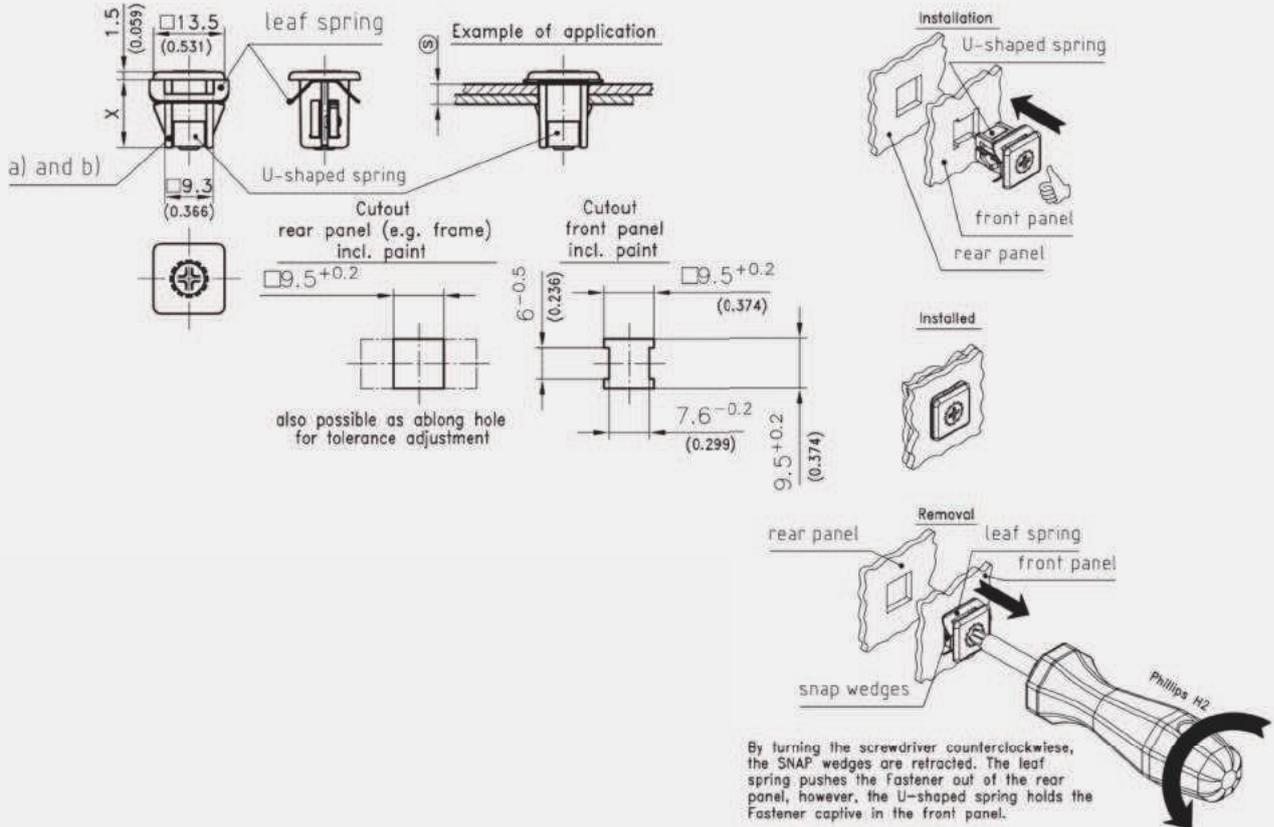
- Meets machinery directive 2006/42EC.
- Eliminates the concern of losing, dropping or misplacing hardware.
- Held securely in the cutout.
- Vibration-proof.
- Opening by a ¼ turn of the insert Phillips H2.
- Connects panels and securely latches doors and covers.
- One-piece.

Material and surface

- Housing:** zinc die, untreated
- SNAP wedges:** sintered steel
- Insert:** aluminium, hardened
- U-shaped spring:** spring steel, zinc plated
- Leaf spring:** stainless steel

Note

The (S) dimension indicates the total thickness of the sheet metal panels.



Fastener

	Part Number	Clamping range (S)	Insert	Vibration-proof	Dimension X	Captive	Installation type
a)	294-9112.00-00017	1,5–2,0	Phillips H2	Yes	11	Yes	tool-less
a)	294-9112.00-00026	2,5–2,8	Phillips H2	Yes	11	Yes	tool-less
a)	294-9112.00-00030	2,9–3,2	Phillips H2	Yes	11	Yes	tool-less
a)	294-9112.00-00034	3,3–3,6	Phillips H2	Yes	11	Yes	tool-less
a)	294-9112.00-00042	4,1–4,4	Phillips H2	Yes	11	Yes	tool-less
b)	294-9118.00-00037	3,5–4,0	Phillips H2	Yes	13	Yes	tool-less
b)	294-9118.00-00046	4,5–4,8	Phillips H2	Yes	13	Yes	tool-less
b)	294-9118.00-00050	4,9–5,2	Phillips H2	Yes	13	Yes	tool-less
b)	294-9118.00-00054	5,3–5,6	Phillips H2	Yes	13	Yes	tool-less
b)	294-9118.00-00062	6,1–6,4	Phillips H2	Yes	13	Yes	tool-less

For joining of flat metal sheets acc. to Machinery Directive 2006/42EC (captive connection of locking devices).

Features

- Meets machinery directive 2006/42EC.
- Pushed into the front panel (sheet thickness max. 3 mm) and permanently secured by the U-shaped spring (1.).
- Can be dismantled of the rear panel from the front with the tool for uninstalla-tion 292-0312.83-00000.
- One-piece, tool-less installation.
- Oblong hole possible, for tolerance adjustment.

Material and surface

Housing and Snap wedges: zinc die, zinc plated

U-shaped spring: stainless steel AISI 301

Note

The (S) dimension indicates the total thickness of the sheet metal panels.

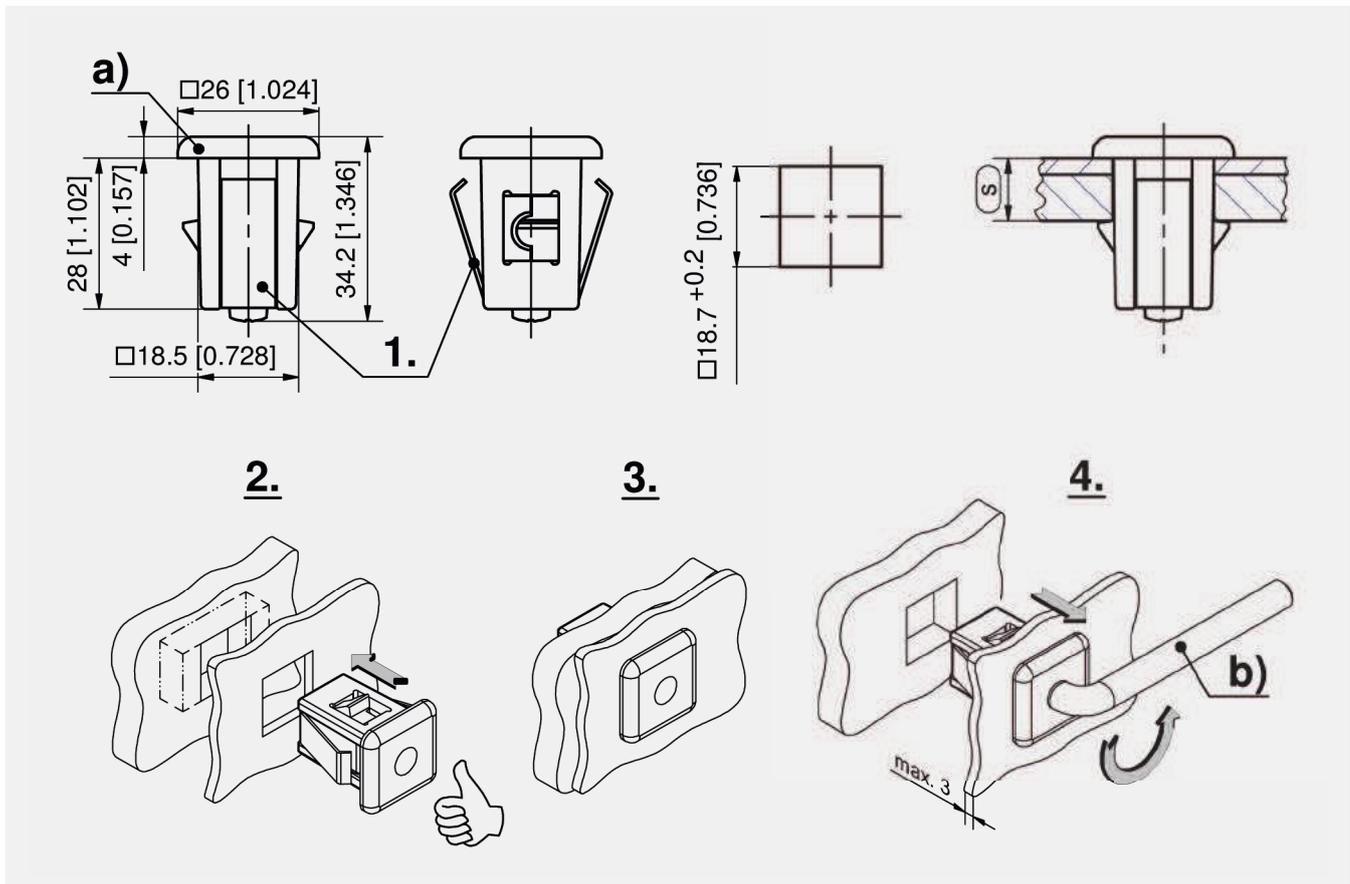
By turning the tool for uninstalla-tion counter clockwise the snap wedges are drawn back. The U-shaped spring holds the fastener captive in the front panel.

- 2. = Installation
- 3. = Installed
- 4. = Removal



SNAP

RoHS
WEEE



Fastener

	Part Number	Clamping range (S)	Captive	Installation type
a)	294-8004.00-00001	11,5–11,8	Yes	tool-less
	292-0312.83-00000		Tool for uninstalla-tion	

SNAP



DIN 61373

RoHS WEEE



Fastener for joining flat metal sheets.

Features

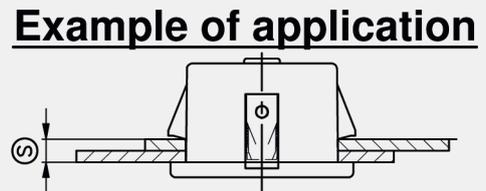
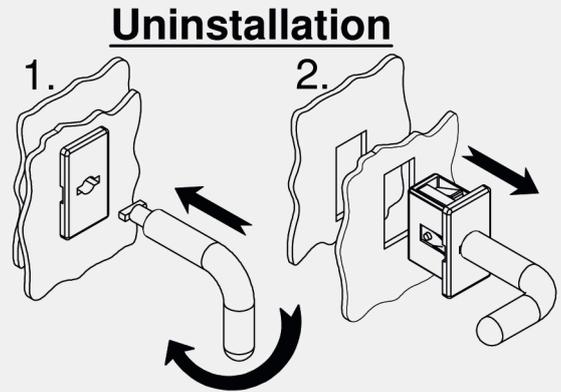
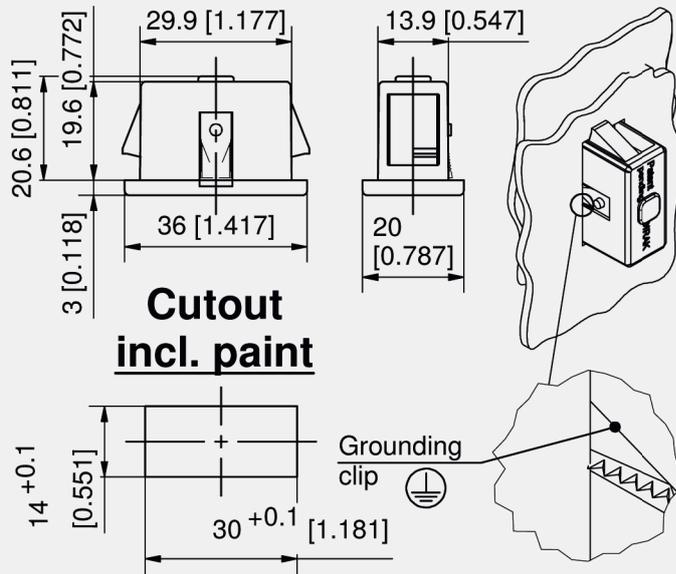
- The connection of the sheets is established via a simple clip-in into its cutout.
- The riveted grounding clip assures an electrical connection between the sheets and the fastener itself.
- The teeth of the riveted grounding clip penetrate the painted cutting edge of the cutouts as well.
- By using the tool for uninstalla-tion 292-0311.15 a disassem-bly from the front is possible.

Material and surface

Housing: zinc die, black
Snap wedges: sintered steel
Grounding clip: stainless steel

Note

The (S) dimension indicates the total thickness of the sheet metal panels.



Fastener

Part Number	Clamping range (S)	Vibration-proof	Grounding	Installation type
294-9003.00-00034	3,0-3,7	Yes	Yes	tool-less
294-9003.00-00043	4,0-4,5	Yes	Yes	tool-less
294-9003.00-00052	5,0-5,5	Yes	Yes	tool-less
294-9003.00-00063	6,0-6,5	Yes	Yes	tool-less

✳	292-0311.15-00000	Tool for uninstallation
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✚	Function extension	Part Number
	Cutout-cover	292-0402.00-03014

Concealed Cam Catch.

Features

- RH / LH application.
- Tool-less clip-in assembly into a 30 x 10 mm cutout in the frame.
- Available in 2 different heights, 10 mm and 16 mm.
- IP65 according to DIN EN 60529 by using O-ring 839-3770.00-02022.

Material and surface

- Cam catch:** zinc die, black
- Snap wedges:** sintered steel

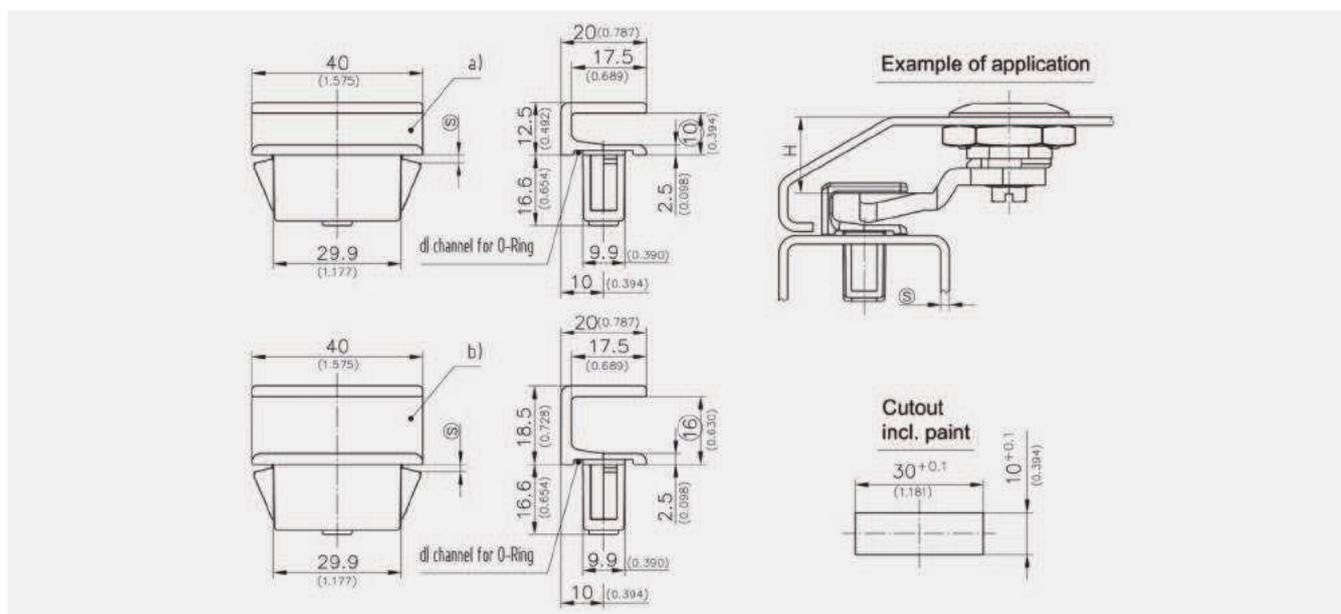


SNAP

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RoHS
WEEE

IP
65



Cam Catch, 10 mm

	Part Number	Material	Surface	clamping range (S)	Packaging unit
a)	408-9106.33-00010	zinc die	black	0,7–1,2	10
a)	408-9106.33-00015	zinc die	black	1,2–1,7	10
a)	408-9106.33-00020	zinc die	black	1,7–2,2	10
a)	408-9106.33-00025	zinc die	black	2,2–2,7	10
a)	408-9106.33-00030	zinc die	black	2,7–3,2	10

Cam Catch, 16 mm

	Part Number	Material	Surface	clamping range (S)	Packaging unit
b)	408-9107.33-00010	zinc die	black	0,7–1,2	10
b)	408-9107.33-00015	zinc die	black	1,2–1,7	10
b)	408-9107.33-00020	zinc die	black	1,7–2,2	10
b)	408-9107.33-00025	zinc die	black	2,2–2,7	10
b)	408-9107.33-00030	zinc die	black	2,7–3,2	10

	Function extension	Part Number
	Cutout-cover	292-0401.00-03010
	O-ring 20 x 2.2 mm	839-3770.00-02022

DIN
61373

IP
65

15
Nm

RoHS
WEEE



The Compression Latch can be used where a secure latching is necessary.

Features

- Compression 7 mm.
- Vibration-proof.
- Locking mechanism is a two-step process actuated by two 90° degree turns.
 - Step 1: 90° degree turn - Cam is rotated behind the frame.
 - Step 2: 90° degree turn - Cam is pulled 7 mm towards the frame.
- Variable H-dimension is adjustable from 12 mm/0.472 to 83.5 mm/3.287.
- IP65 according to DIN EN 60529.
- Inserts h) and i) (see drawing) on request.

Material and surface

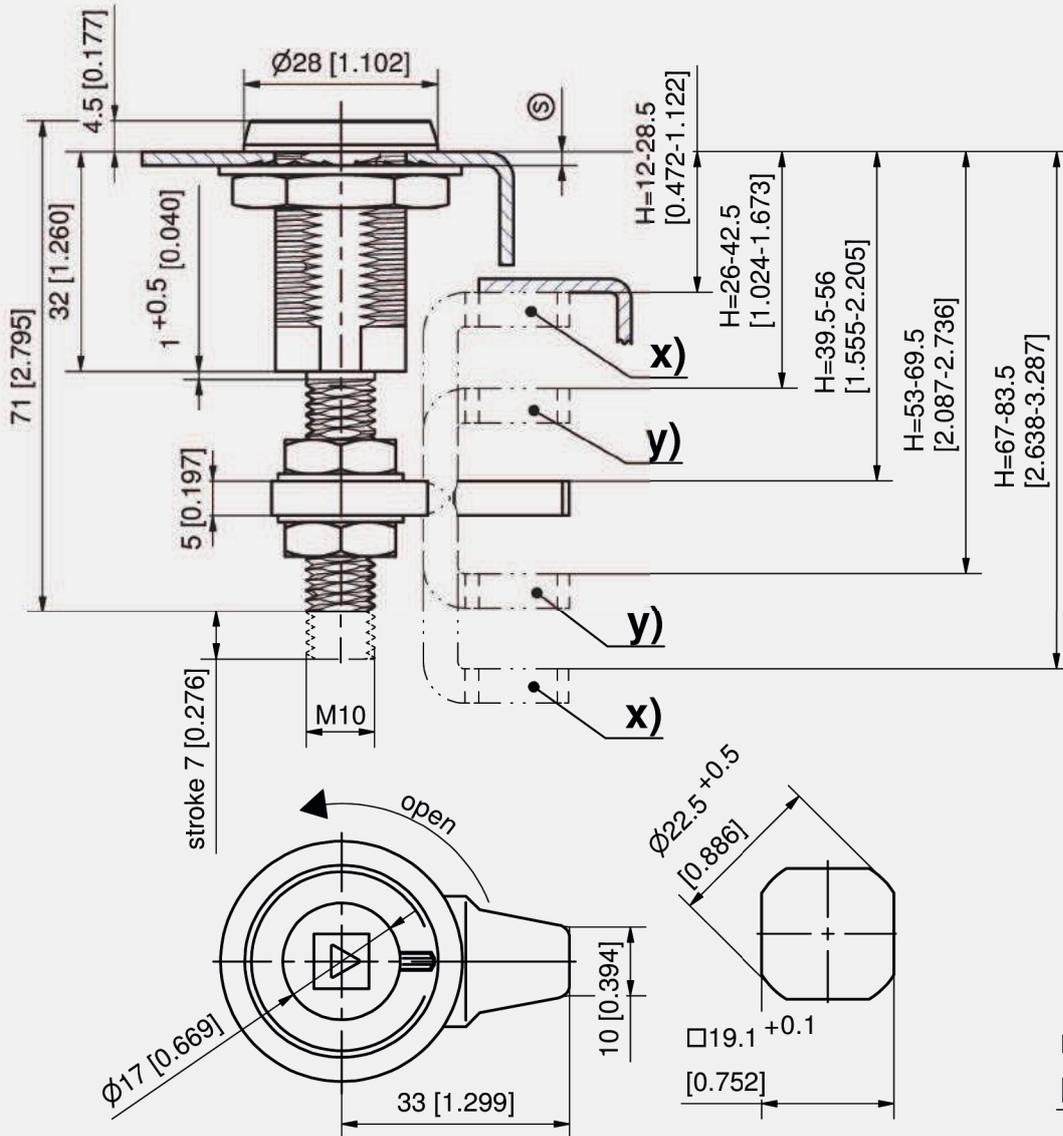
Housing and insert: zinc die, black

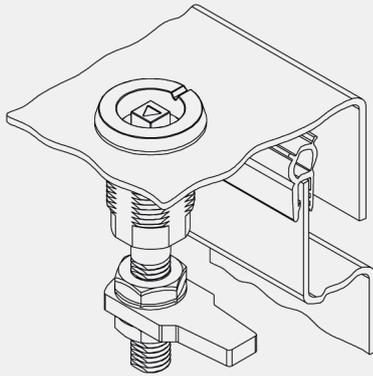
Nut for attachment of the housing: zinc die

Cams, serrated washer, nuts and pin: steel, zinc plated

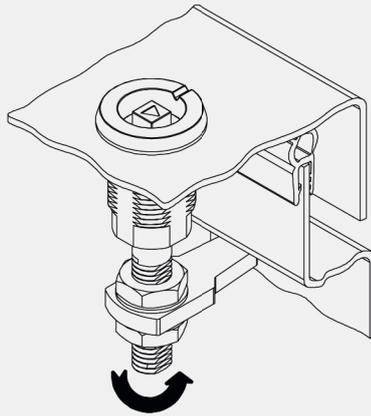
Note

(S) = max. 18 mm

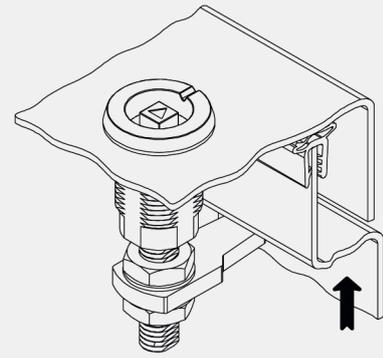




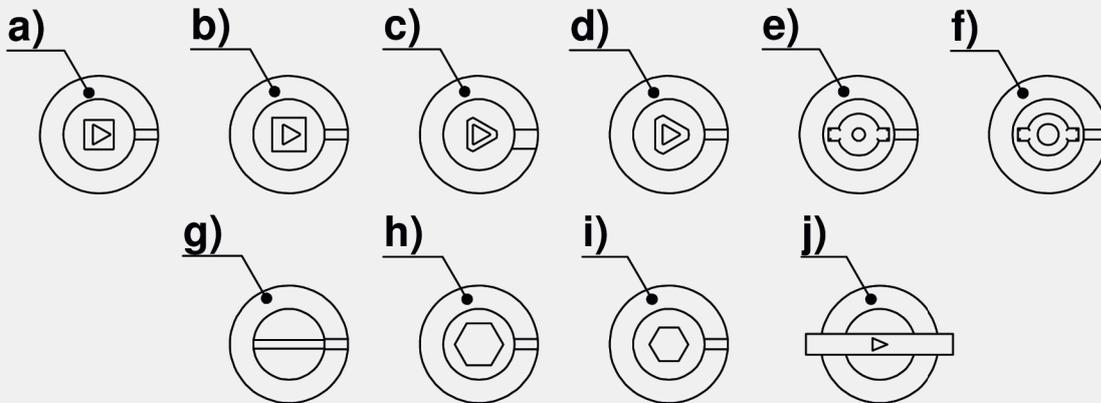
Open position



First 90° degree turn of the insert moves the cam behind the frame.



Second 90° degree turn pulls the cam 7mm against the frame compressing the seal. The door is latched and free of play.



Compression Latch with insert

	Part Number	Insert	Door-thickness	Installation type	Version	Compression	variable H-dimension	Construction depth	Packaging unit
a)	248-9752.00-00001	Square 7 mm	max. 18 mm	screw-on	LH	7	39,5–56	71	25
b)	248-9752.00-00002	Square 8 mm	max. 18 mm	screw-on	LH	7	39,5–56	71	25
c)	248-9752.00-00003	Triangular 7 mm	max. 18 mm	screw-on	LH	7	39,5–56	71	25
d)	248-9752.00-00004	Triangular 8 mm	max. 18 mm	screw-on	LH	7	39,5–56	71	25
e)	248-9752.00-00005	Double bit 3 mm pin	max. 18 mm	screw-on	LH	7	39,5–56	71	25
f)	248-9752.00-00006	Double bit 5 mm pin	max. 18 mm	screw-on	LH	7	39,5–56	71	25
g)	248-9752.00-00007	Slotted 2 x 4 mm	max. 18 mm	screw-on	LH	7	39,5–56	71	25
j)	248-9752.00-00010	Wing knob	max. 18 mm	screw-on	LH	7	39,5–56	71	25

Cams

	Part Number	Length L	H-dimension pos variable	H-dimension neg variable	Bending
x)	248-0602.15-00275	L33	67–83,5	12–28,5	27,5
y)	248-0602.15-00135	L33	53–69,5	26–42,5	13,5



Compression Latch with Flap,
stainless steel on page 142.

Features

- Compression 6 mm.
- Vibration-proof according to DIN EN 61373.
- RH and LH version.
- The flap is standing upright (90°) in unlocked position.
- The open flap indicates locking position and protects against dust and water.
- The spring loaded flap first closes, when compression latch is closed securely.

Material and surface

Housing, flap and insert: zinc die, black

Grounding nut: zinc die, untreated

Screw, nut and spring: stainless steel

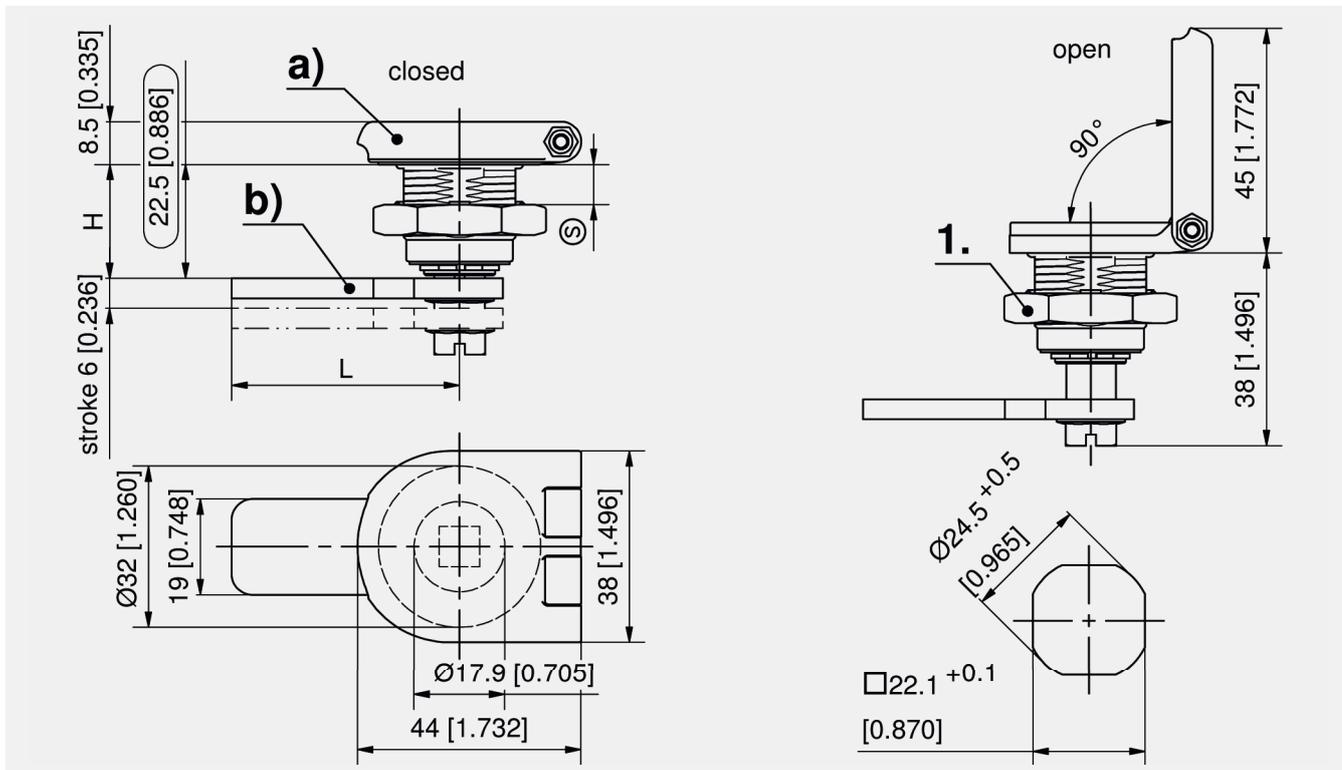
O-Rings: NBR

Note

The H-dimension can be varied by the cranking of the cams.

(S) = max. 8 mm

1. Single sided grounding nut.



Compression Latch

	Part Number	Insert	Door-thickness	Grounding type	Installation type	Version	Compression	Construction depth
a)	248-9601.00-00001	Double bit 3 mm pin	max. 8 mm	Grounding nut	screw-on	LH	6	38
a)	248-9601.00-00002	Double bit 5 mm pin	max. 8 mm	Grounding nut	screw-on	LH	6	38
a)	248-9601.00-00003	Square 8 mm	max. 8 mm	Grounding nut	screw-on	LH	6	38
a)	248-9601.00-00004	Triangular 8 mm	max. 8 mm	Grounding nut	screw-on	LH	6	38
a)	248-9601.00-00005	Conical square 9 mm	max. 8 mm	Grounding nut	screw-on	LH	6	38
a)	248-9651.00-00001	Double bit 3 mm pin	max. 8 mm	Grounding nut	screw-on	RH	6	38
a)	248-9651.00-00002	Double bit 5 mm pin	max. 8 mm	Grounding nut	screw-on	RH	6	38
a)	248-9651.00-00003	Square 8 mm	max. 8 mm	Grounding nut	screw-on	RH	6	38
a)	248-9651.00-00004	Triangular 8 mm	max. 8 mm	Grounding nut	screw-on	RH	6	38
a)	248-9651.00-00005	Conical square 9 mm	max. 8 mm	Grounding nut	screw-on	RH	6	38

*	7-105.01	Cams L35/45 without Ramp and Stop
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Nicely shaped Quarter-turn with 12 mm (0.472) housing.

Features

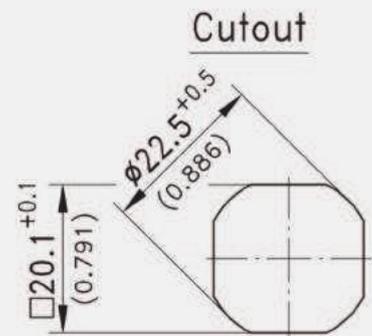
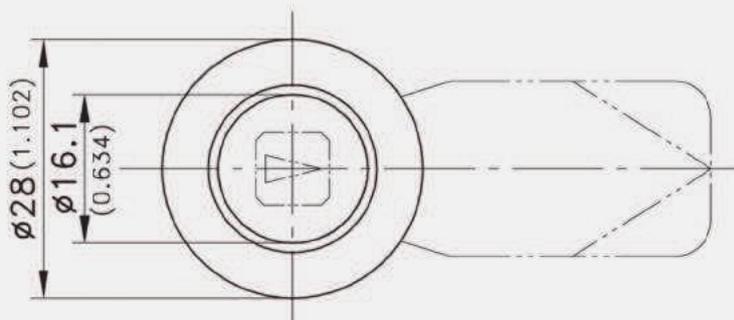
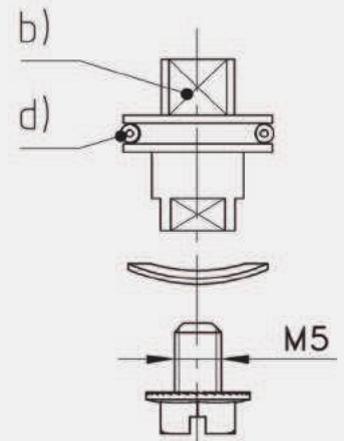
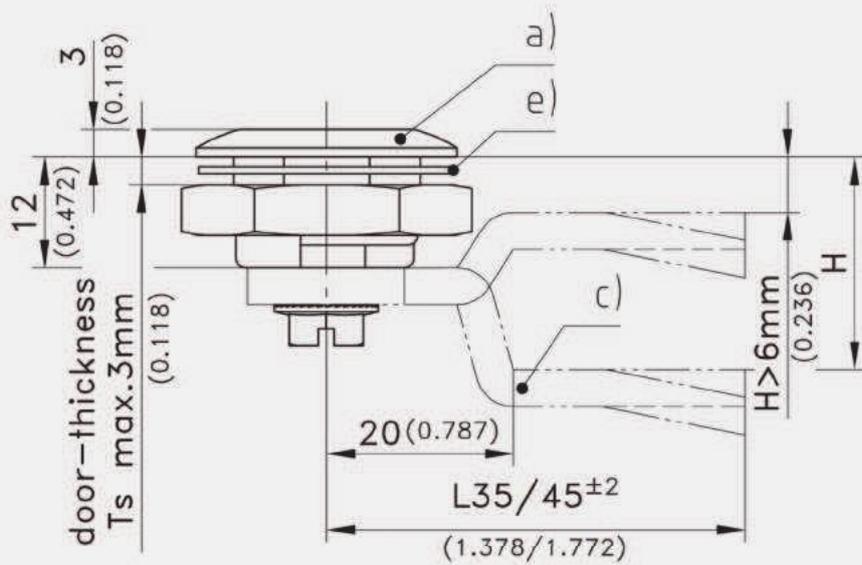
- RH / LH application.
- Please configure the Quarter-turn with insert and cam.
- On request parts can be assembled.
- The Quarter-turn can be screwed into the cutout with the pre-assembled cam.
- Grounding is possible with use of a grounding nut.
- IP65 according to DIN EN 60529 by using sealing kit 209-9002.

Material and surface

- Housing and insert:** zinc die, chrome plated or black
- Cams and nut:** steel, zinc plated
- Grounding nut:** zinc die, untreated

Note

H-dimension ≥ 6 mm



Housing

	Part Number	Housing length	Door-thickness	Material	Grounding type	Installation type	Version
a)	100-9044.00-00000	L12	max. 3 mm	zinc die		screw-on	chrome plated
a)	100-9045.00-00000	L12	max. 3 mm	zinc die	Grounding nut	screw-on	chrome plated
a)	100-9046.00-00000	L12	max. 3 mm	zinc die		screw-on	black
a)	100-9047.00-00000	L12	max. 3 mm	zinc die	Grounding nut	screw-on	black

Inserts for Quarter-turn L12

	Part Number	Insert type	Material	Surface	incl. Spring washer and serrated screw
b)	100-9138.00-00006	Double bit 3 mm pin	zinc die	chrome plated	Yes
b)	100-9138.00-00007	Double bit 5 mm pin	zinc die	chrome plated	Yes
b)	100-9138.00-00008	Square 6 mm	zinc die	chrome plated	Yes
b)	100-9138.00-00009	Square 7 mm	zinc die	chrome plated	Yes
b)	100-9138.00-00010	Square 8 mm	zinc die	chrome plated	Yes
b)	100-9138.00-00011	Triangular 7 mm	zinc die	chrome plated	Yes
b)	100-9138.00-00012	Triangular 8 mm	zinc die	chrome plated	Yes
b)	100-9138.00-00013	Slotted 2 x 4 mm	zinc die	chrome plated	Yes
b)	100-9140.00-00006	Double bit 3 mm pin	zinc die	black	Yes
b)	100-9140.00-00007	Double bit 5 mm pin	zinc die	black	Yes
b)	100-9140.00-00008	Square 6 mm	zinc die	black	Yes
b)	100-9140.00-00009	Square 7 mm	zinc die	black	Yes
b)	100-9140.00-00010	Square 8 mm	zinc die	black	Yes
b)	100-9140.00-00011	Triangular 7 mm	zinc die	black	Yes
b)	100-9140.00-00012	Triangular 8 mm	zinc die	black	Yes
b)	100-9140.00-00013	Socket hex.8 mm (5/16")	zinc die	black	Yes

	Function extension	Part Number
	Sealing kit IP65	209-9002.00-00000

	Assembly options	Part Number
	Assembling cam without o-ring	200-0001.00-00000
	Assembling cam with o-ring	200-0002.00-00000



LED Module for Quarter-Turns
on page 47.

Nicely shaped safety Quarter-turn with 18 mm housing.

Features

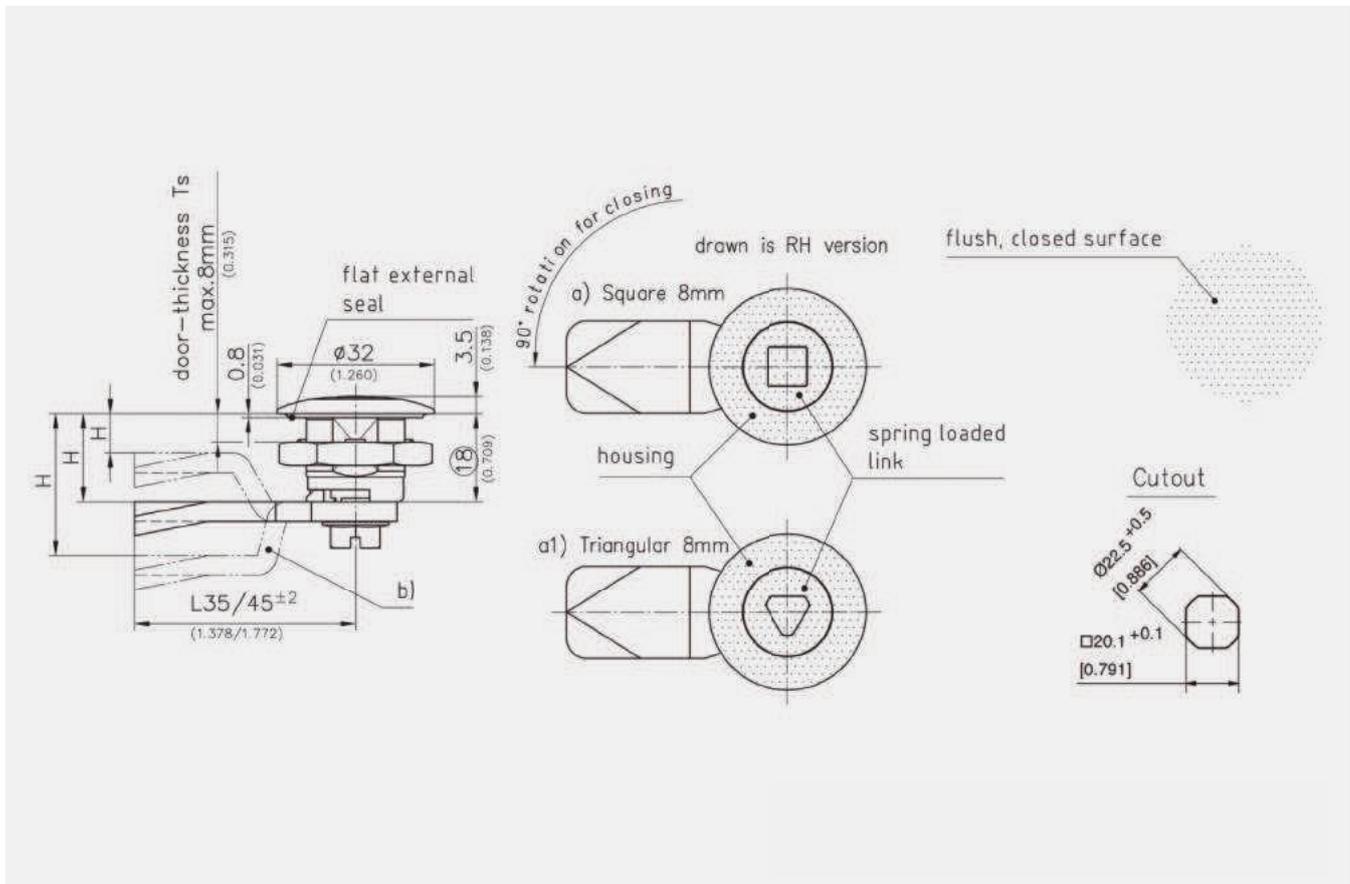
- RH / LH application.
- Vibration-proof also at high sealing pressure.
- IP65 according to DIN EN 60529.
- The Quarter-turn can be screwed into the cutout with the pre-assembled cam.
- On request parts can be assembled.
- Grounding by single sided grounding nut.

Material and surface

- a)
- Housing, insert and spring loaded link:** zinc die, matt chrome plated
- O-Ring and flat external seal:** NBR Perbunan, black
- Grounding nut:** zinc die, untreated
- b) and b1)
- Cam:** steel, zinc plated

Note

Additional advantage: completely closed housing surface.



Safety Quarter-turn, pre-assembled, without cam

	Part Number	Insert	Housing length	Material	Grounding type	Installation type
a)	255-9813.00-00000	Square 8 mm	L18	zinc die	Grounding nut	screw-on
a1)	255-9814.00-00000	Triangular 8 mm	L18	zinc die	Grounding nut	screw-on

	Assembly options	Part Number
	Assembling cam without o-ring	200-0001.00-00000



Double insulated polyamide quarter-turn with moulded-in TPE seal (under the head and inside the housing) that is permanently fixed in the PA-housing, thus ensuring that it cannot be lost.

Features

- IP65/67 according to DIN EN 60529 and IP69K according to DIN 40050.
- Please configure the Quarter-turn with insert and cam.
- Insert and cam can be clipped together without tools before the installation in the housing.
- A pre-assembled Quarter-turn can be installed through the cutout.
- On request parts can be assembled.
- RH / LH application.

Material and surface

Housing, insert, cam and nut:
PA6, black

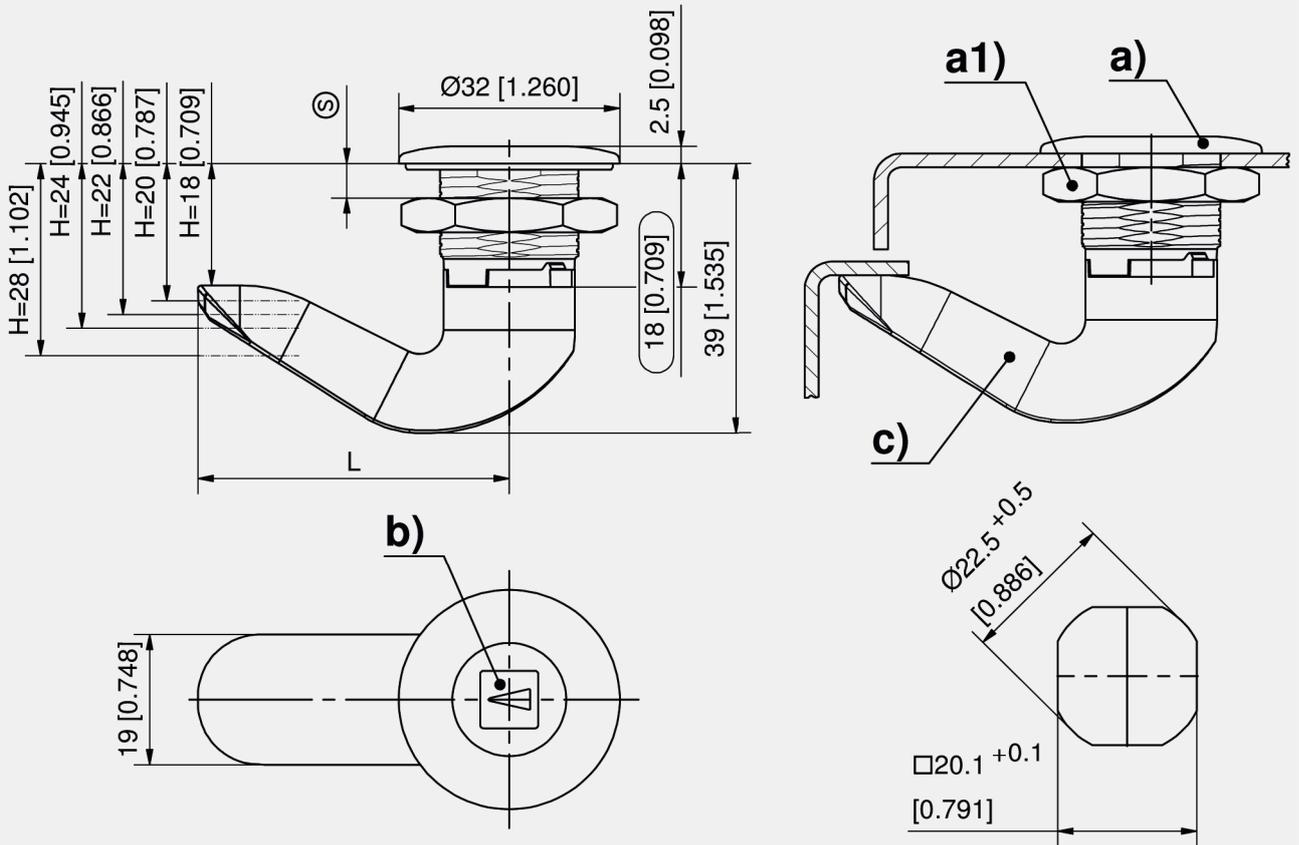
Seal: TPE, red

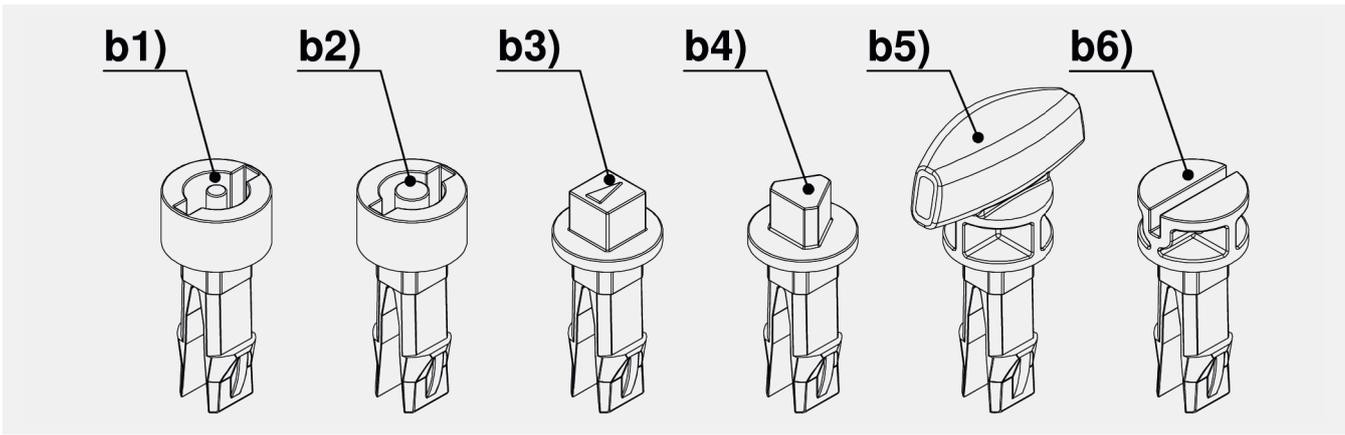
Note

Please consider the packaging units:

Housings and Nuts:
= each 1000 pcs.
Inserts and cams:
= each 250 pcs.

(S) = max. 8 mm





Quarter-turn housing 2K

	Part Number	Housing length	Material	Captive seal	Packaging unit
a)	200-0211.07-07701	L18	PA, black	Yes	1000

Inserts for Quarter-turn 2K

	Part Number	Insert type	Material	Packaging unit
b2)	100-0388.50-07701	Double bit 5 mm pin	PA, black	250
b3)	100-0388.50-07702	Square 8 mm	PA, black	250
b4)	100-0388.50-07703	Triangular 8 mm	PA, black	250
b6)	100-0388.50-07704	Slotted 2 x 4 mm	PA, black	250
b1)	100-0388.50-07705	Double bit 3 mm pin	PA, black	250
b5)	100-0388.50-07707	Wing	PA, black	250

Cams for Quarter-turn 2K

	Part Number	H-dimension	Length L	Stop	Packaging unit
c)	200-0769.50-07718	18	L45	Yes	250
c)	200-0769.50-07720	20	L45	Yes	250
c)	200-0769.50-07722	22	L45	Yes	250
c)	200-0769.50-07724	24	L45	Yes	250
c)	200-0769.50-07728	28	L45	Yes	250

	203-0901.07-00000	Nut			
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SNAP

A

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RoHS
WEEE

IP
65



PA Quarter-turn for snap-in installation into cutout A

Features

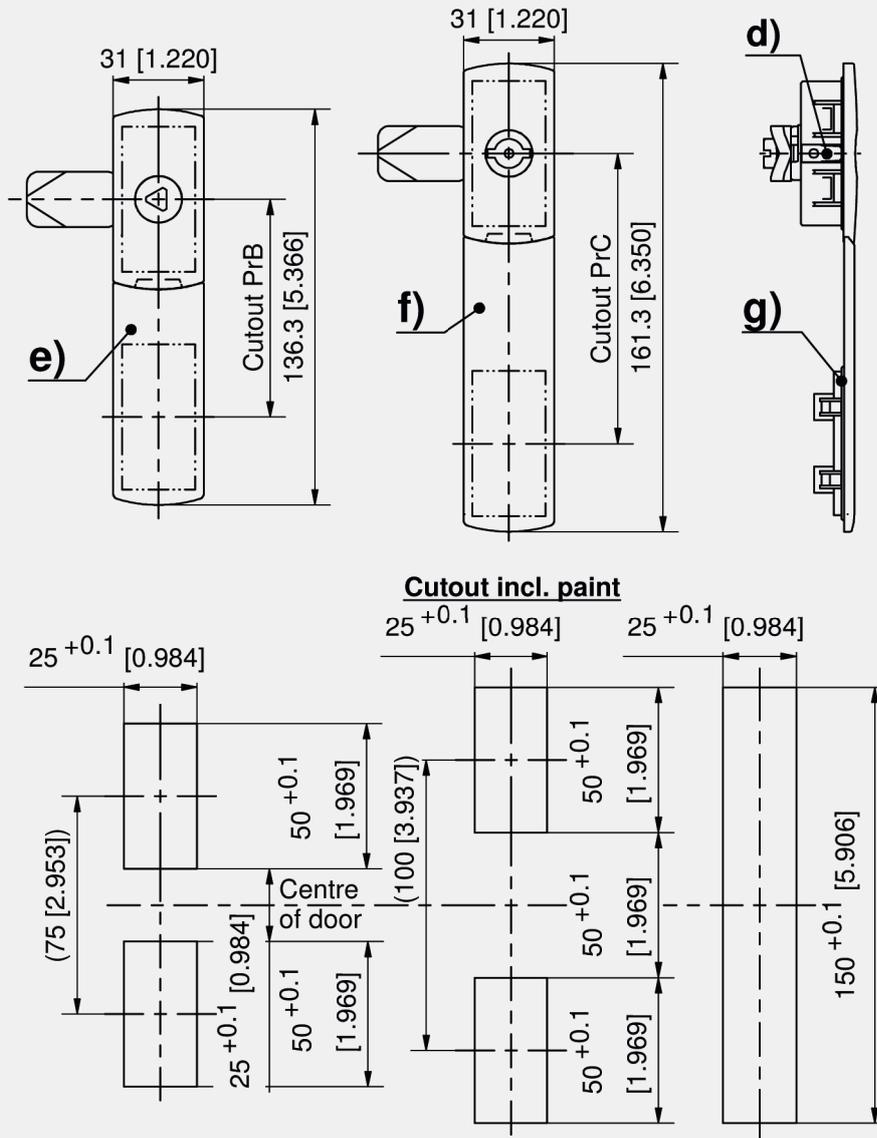
- RH / LH application by rotatable bottom part.
- By using additional extensions this Quarter-turn can also be applied for cutouts B and C.
- The Quarter-turn can be snapped-in as a completely pre-assembled unit.
- Also a 3-point cam can be pre-assembled.
- IP65 according to DIN EN 60529 by using the sealing kit (with snap-in extensions IP54).

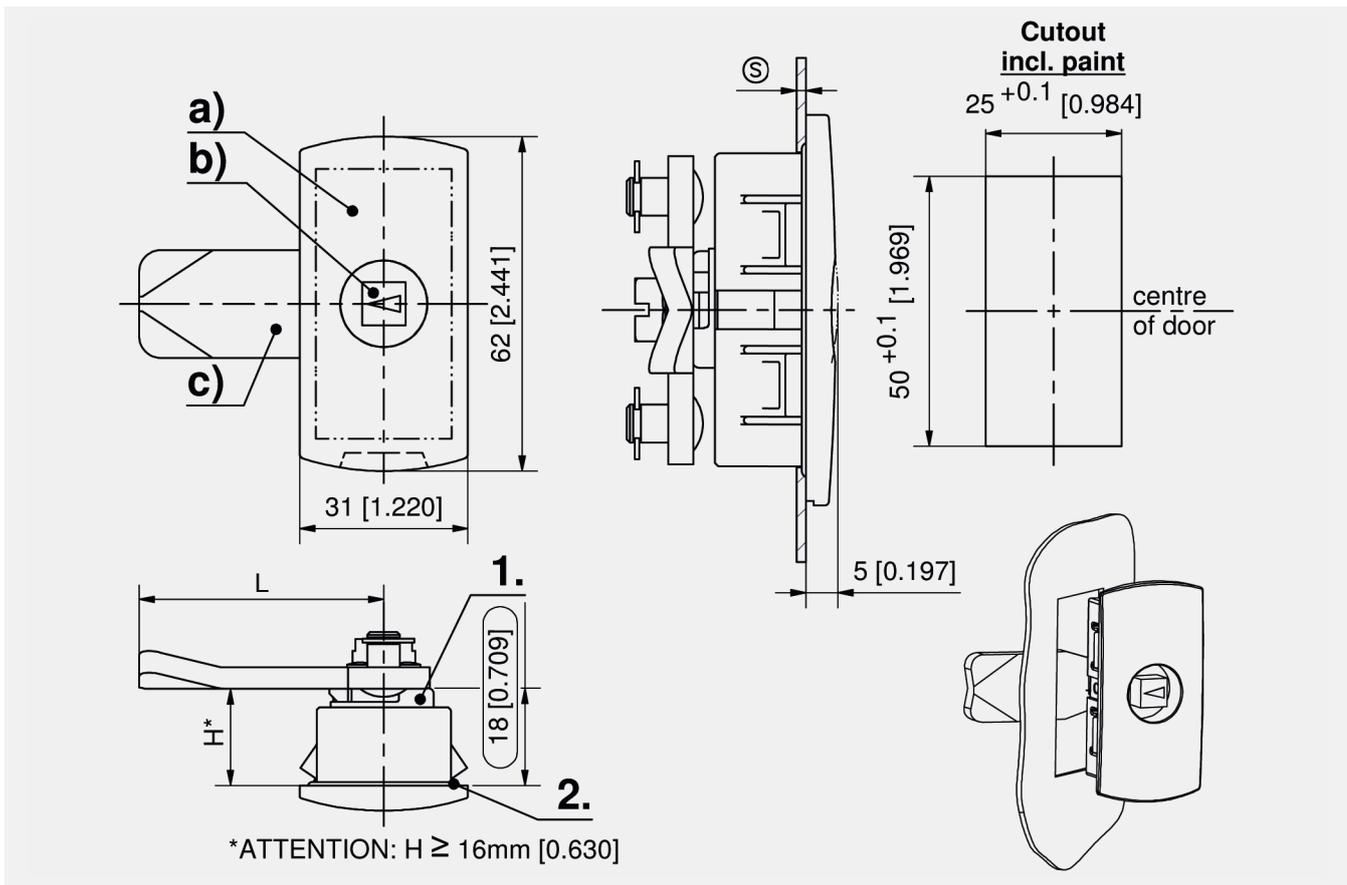
Material and surface

- Housing:** PA, black
- Bottom:** zinc die, zinc plated
- Grounding clip:** stainless steel
- O-ring:** NBR, black

Note

- H-dimension of the cam** ≥ 16 mm (5/8").
- 1. = Rotatable bottom
- 2. = Sealing kit IP65
- d) = Grounding clip
- g) = Sealing kit for escutcheon





Housing with rotatable bottom and O-ring

	Part Number	Housing length	Grounding type	Installation type	Clamping range	Packaging unit
a)	408-9305.00-00010	L18	Grounding clip	tool-less	0.8 – 1.3	50
a)	408-9305.00-00015	L18	Grounding clip	tool-less	1.3 – 1.8	50
a)	408-9305.00-00020	L18	Grounding clip	tool-less	1.8 – 2.3	50

*	208-0523.03-00000	Extension, short
	208-0522.03-00000	Extension, long
	3-136SL	Cutout-Cover PrA, PrB and PrC SNAP-LINE
	208-1804.00-00000	Sealing kit for escutcheon

	Function extension	Part Number
+	Grounding clip	200-1104.93-00000
	Sealing kit IP65	209-9002.00-00000

	Assembly options	Part Number
⚙️	Assembling cam with o-ring	200-0002.00-00000
	Assembling cam, LH door	200-0020.00-00000
	Assembling cam, RH door	200-0021.00-00000



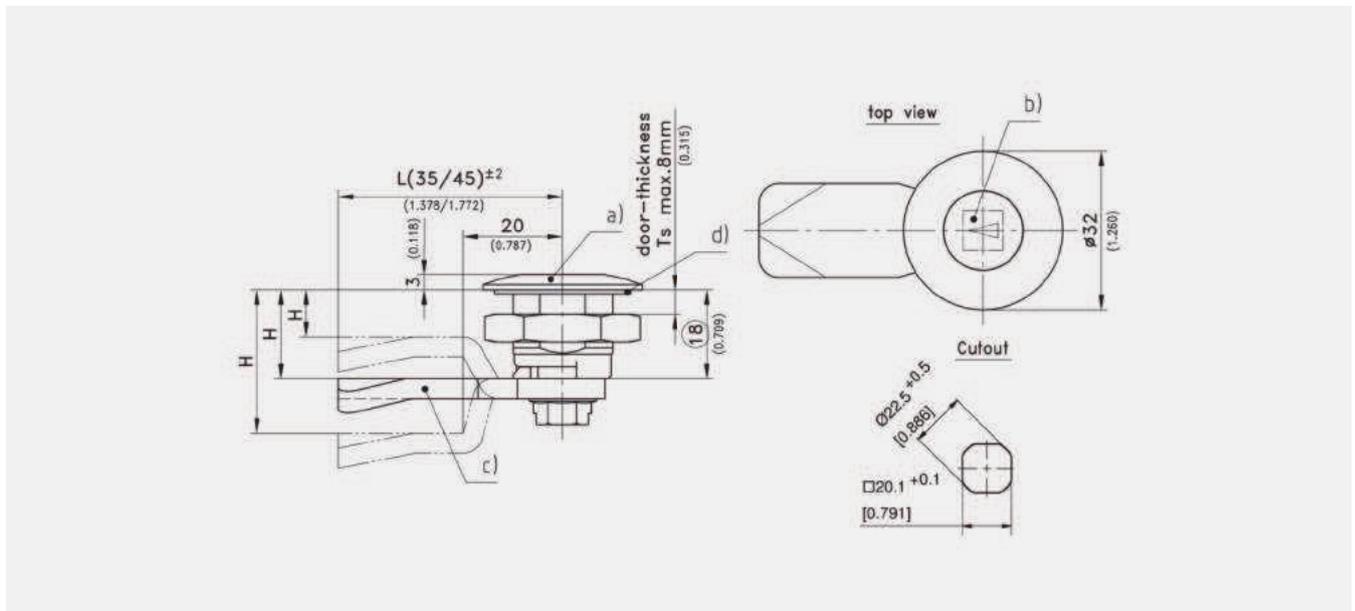
Specially low profile Quarter-turn.

Features

- RH / LH application.
- Please configure the Quarter-turn with insert and cam.
- On request parts can be assembled.
- A pre-assembled Quarter-turn can be installed through the cutout.
- Grounding by grounding nut or grounding clip.
- IP65 according to DIN EN 60529 by sealing kit 209-9002.
- IP67 according to DIN EN 60529 by sealing kit 209-9001.

Material and surface

- Housing:** zinc die, chrome plated or black
- Nut:** steel, zinc plated
- Grounding nut:** zinc die, untreated
- Grounding clip:** stainless steel



Quarter-turn housing Ø32

	Part Number	Housing length	Door-thickness	Material	Grounding type	Installation type	Version
a)	100-9053.00-00000	L18	max. 8 mm	zinc die		screw-on	chrome plated
a)	100-9054.00-00000	L18	max. 8 mm	zinc die	Grounding nut	screw-on	chrome plated
a)	100-9055.00-00000	L18	max. 8 mm	zinc die	Grounding clip	screw-on	chrome plated
a)	100-9056.00-00000	L18	max. 8 mm	zinc die		screw-on	black
a)	100-9057.00-00000	L18	max. 8 mm	zinc die	Grounding nut	screw-on	black
a)	100-9058.00-00000	L18	max. 8 mm	zinc die	Grounding clip	screw-on	black

+	Function extension	Part Number
	Sealing kit IP65	209-9002.00-00000
	Sealing kit IP67	209-9001.00-00000

⚙	Assembly options	Part Number
	Assembling cam without o-ring	200-0001.00-00000
	Assembling cam with o-ring	200-0002.00-00000

The roller cam reduces the friction and eases the closing.

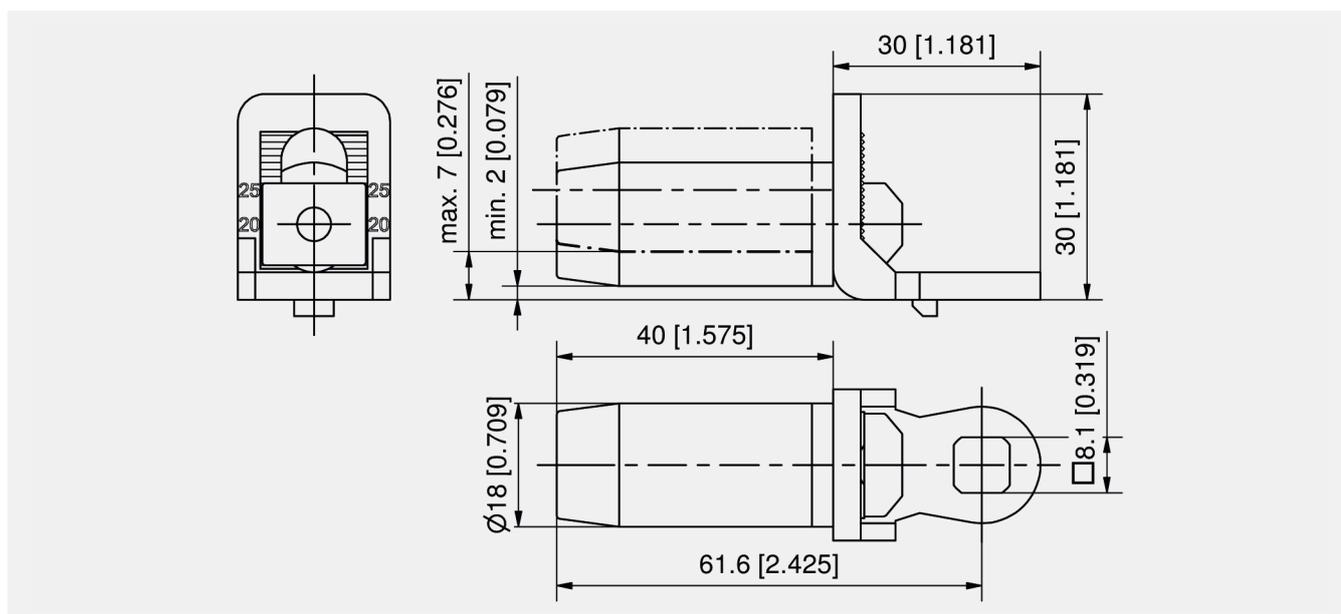
Features

- No scratching or spalling of the paint at the inner part of the bending.
- Adjustable in height from H20 to H25.
- Suitable for all inserts, swing-handles and multipoint locking systems with square 8 mm.
- H- dimension of the cam easy to adjust because of impressed height marks.

Material and surface

- Cam:** zinc die, zinc plated
- Roller:** PA, black
- Tenon blocks:** zinc die, untreated
- Distance bushing:** zinc die, untreated
- Cylinder screw:** steel, zinc plated

RoHS
WEEE



Roller cam

Part Number	H-dimension variable	Length	Diameter Ø	Packaging unit
100-9755.00-00000	20-25	61.6	18	10



RoHS
WEEE



The Quarter-Turn has absolutely no protrusion on the outside.

Features

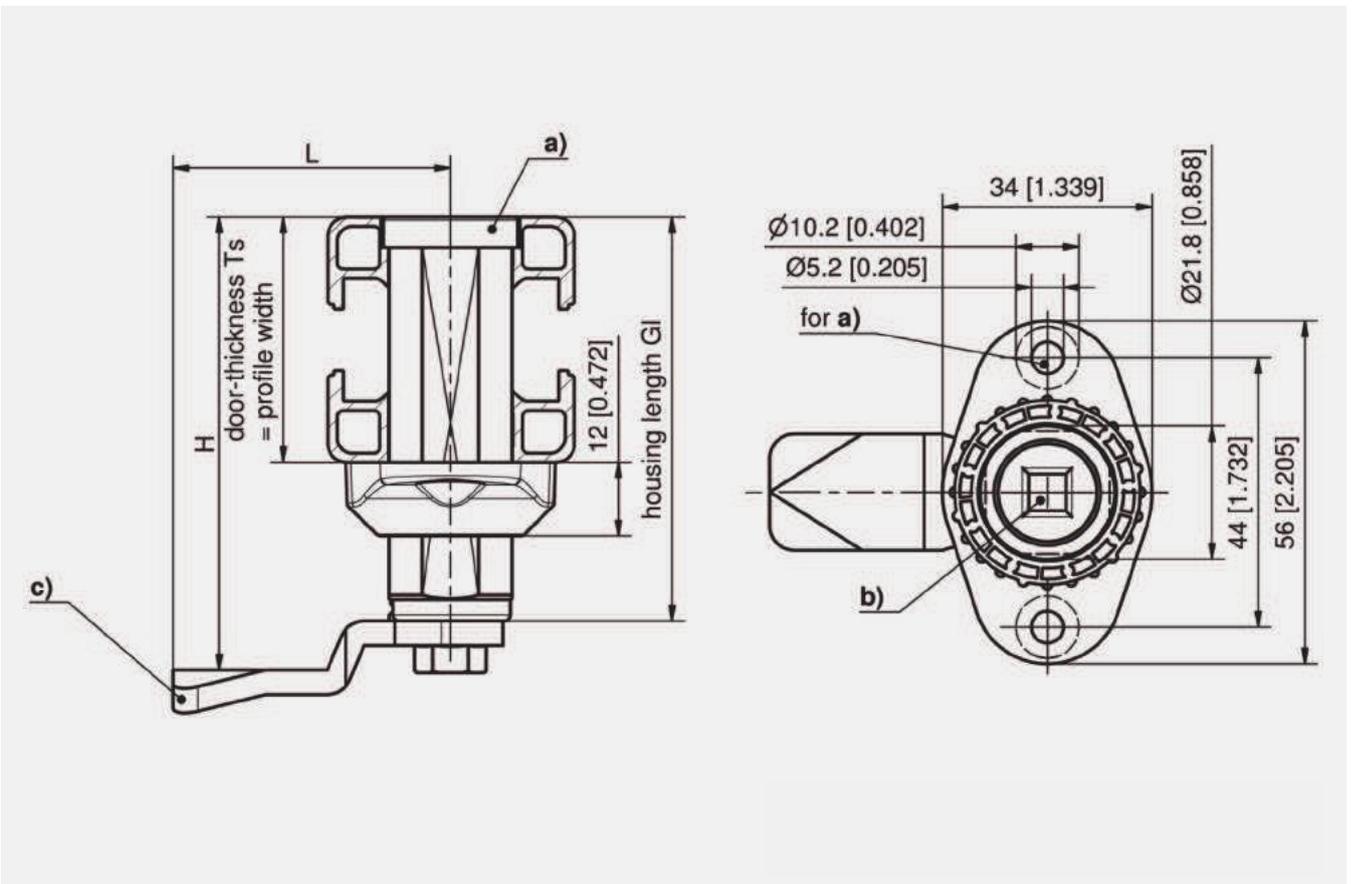
- RH / LH application.
- Please configure the Quarter-turn with insert, adapter and cam.
- With the PA nut M22 x 1.5 mm, the housing is put exactly into position and secured with the anti-rotation device. Precise detent for optimized alignment.
- In conjunction with the stop plate, stop less constructions with aluminum profiles and/or with flat components can be latched perfectly.

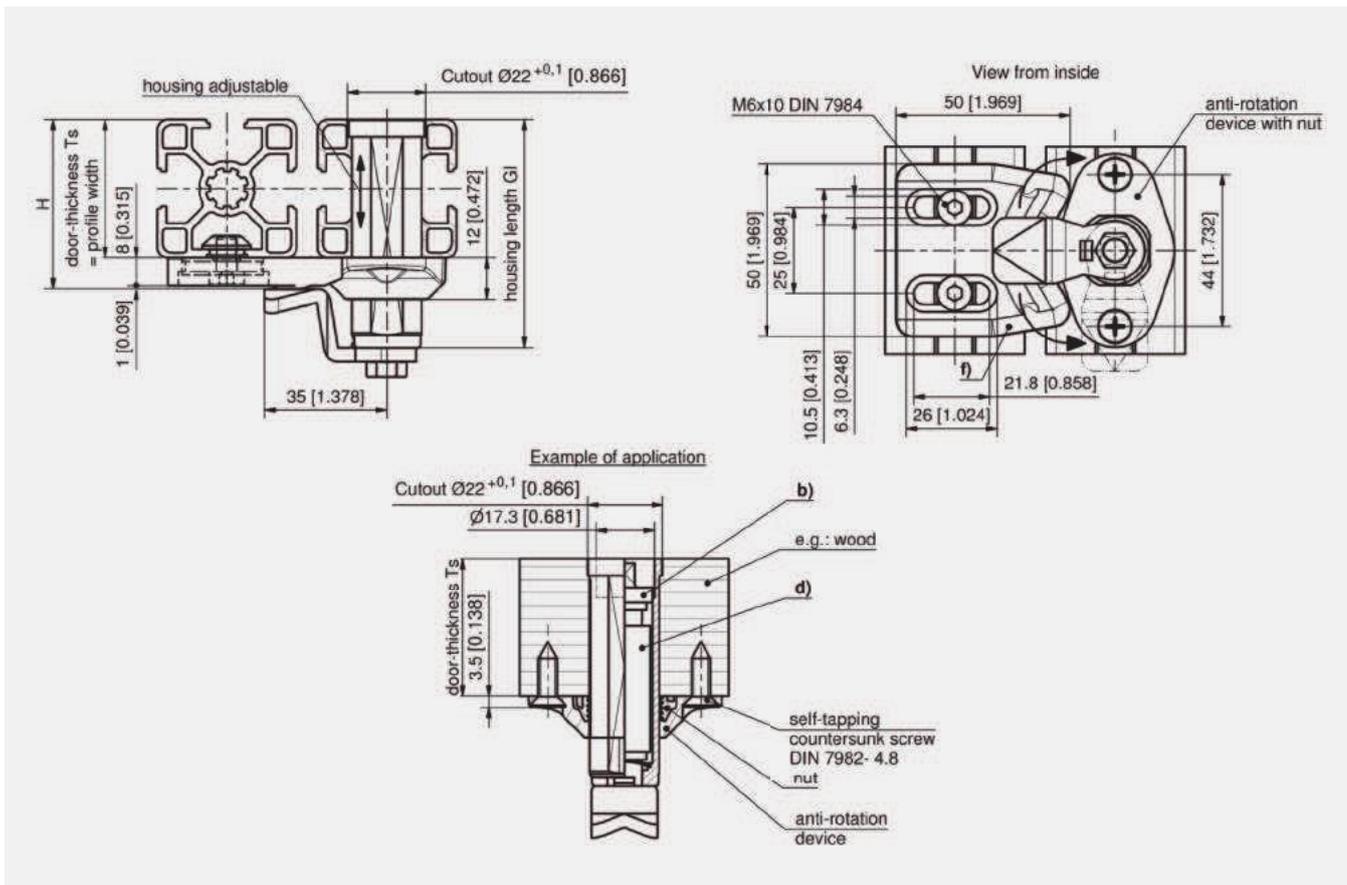
Material and surface

- Housing:** zinc die, chrome plated or black
- Nut:** PA
- Adapter:** zinc die, untreated
- Anti-rotation device:** zinc die, zinc plated
- Stop plate:** zinc die, black

Note

- d) = Adapter set
- f) = Stop plate





Quarter-turn housing, zinc die, chrome plated

	Part Number	Housing length	Door-thickness	Installation type	suitable adapter set
a)	200-9088.00-00000	L22	max. 7 mm	screw-on	
a)	200-9090.00-00000	L36	max. 21 mm	screw-on	L20
a)	200-9092.00-00000	L42	max. 27 mm	screw-on	L26
a)	200-9094.00-00000	L46	max. 31 mm	screw-on	L30
a)	200-9096.00-00000	L56	max. 41 mm	screw-on	L40
a)	200-9098.00-00000	L66	max. 51 mm	screw-on	L50

Quarter-turn housing, zinc die, black

	Part Number	Housing length	Door-thickness	Installation type
a)	200-9089.00-00000	L22	max. 7 mm	screw-on

*	265-3001.33-00000	Stop plate
	200-4618.35-00000	Anti-rotation Device
	200-9031.00-00000	Adapter set L20
	200-9032.00-00000	Adapter set L26
	200-9033.00-00000	Adapter set L30
	200-9034.00-00000	Adapter set L40
	200-9035.00-00000	Adapter set L50

Assembly options	Part Number
Assembling adapter, without o-ring	200-0003.00-00000



Swinghandle base
on page 71.

Low profile Cylinder Quarter-turn with different housing lengths.

Features

- RH / LH application.
- Please configure the Quarter-turn with insert and cam.
- On request parts can be assembled with cam.
- A pre-assembled Quarter-turn can be installed in the cutout.
- 2 Keys included.
- With stainless cylinder cover and dust-shutter.
- Maximum load for the key 4 Nm.

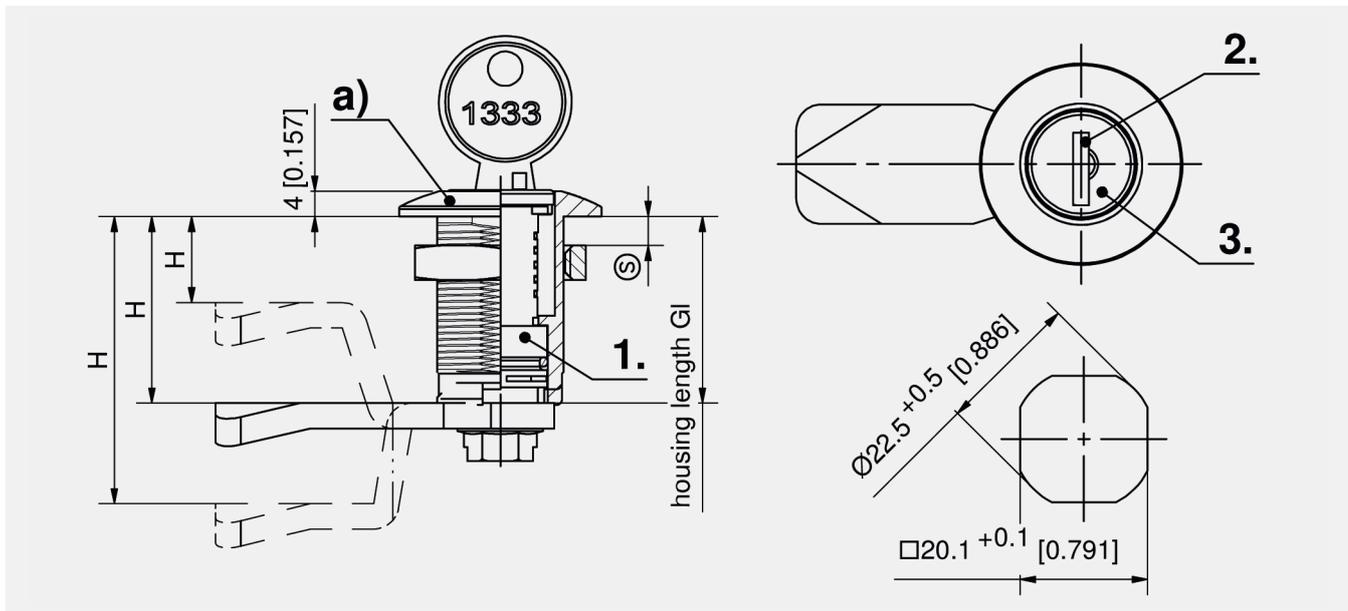
Material and surface

- Housing:** zinc die, chrome plated or black
- Nut and Serrated screw:** steel, zinc plated
- Adapter:** zinc die, untreated

Note

IP65 according to DIN EN 60529 only with dust cap.

1. = Adapter
2. = Dust-shutter
3. = Cylinder cover



Quarter-turn with cylinder

	Part Number	Closing	Housing length	Door-thickness	Material
a)	100-9081.00-10030	keyed alike DIRAK 1333	L30	max. 20 mm	zinc die, chrome plated
a)	100-9081.00-10050	keyed alike DIRAK 1333	L50	max. 40 mm	zinc die, chrome plated
a)	100-9082.00-10030	keyed different	L30	max. 20 mm	zinc die, chrome plated
a)	100-9082.00-10050	keyed different	L50	max. 40 mm	zinc die, chrome plated
a)	100-9083.00-10030	keyed alike DS200	L30	max. 20 mm	zinc die, chrome plated
a)	100-9083.00-10050	keyed alike DS200	L50	max. 40 mm	zinc die, chrome plated
a)	100-9081.00-20030	keyed alike DIRAK 1333	L30	max. 20 mm	zinc die, black
a)	100-9081.00-20050	keyed alike DIRAK 1333	L50	max. 40 mm	zinc die, black
a)	100-9082.00-20030	keyed different	L30	max. 20 mm	zinc die, black
a)	100-9082.00-20050	keyed different	L50	max. 40 mm	zinc die, black
a)	100-9083.00-20030	keyed alike DS200	L30	max. 20 mm	zinc die, black
a)	100-9083.00-20050	keyed alike DS200	L50	max. 40 mm	zinc die, black

	Function extension	Part Number
+	Dust Cap and Sealing Plug Pr20.1	1-270
	Finger Pull for Quarter-Turn Pr20.1	1-270.01

	Assembly options	Part Number
+	Assembling cam without o-ring	200-0001.00-00000

DIN
61373



120°

RoHS
WEEE



Features

- For surface mounted doors.
- Hinge concealed.
- Door bending 23 mm.
- RH and LH Version.
- 120° Opening angle.
- Flush latch through insert.
- When using 4 latches, the door can be lifted off completely.

Material and surface

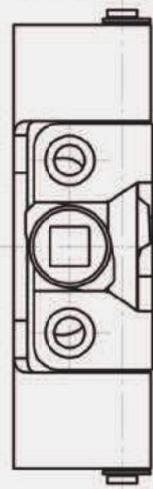
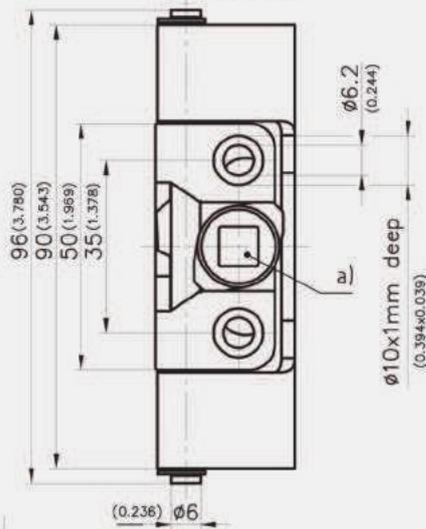
- Door- and latch-part:** zinc die, zinc plated
- Spring washer:** stainless steel
- Nut:** steel, zinc plated
- Locking washer:** steel, chrome plated
- Blind plug:** PA6, RAL 7035

Note

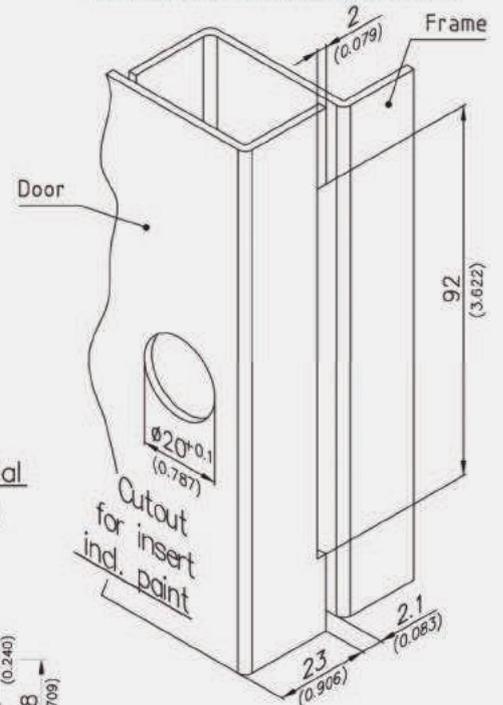
- Please order separately:
- c) Locking washer (usage see drawing)
- d) Nut M6
- e) Weld stud M6 x 8
- f) Blind plug

LH version

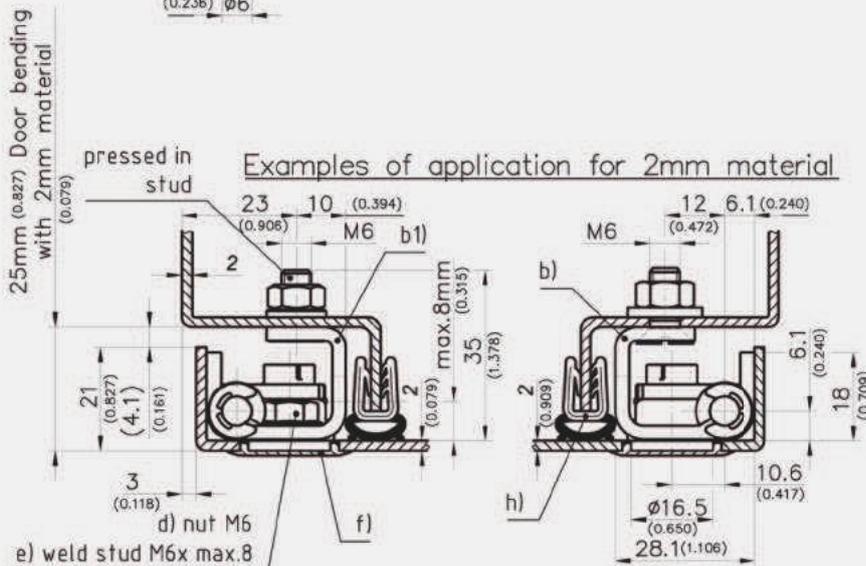
RH version

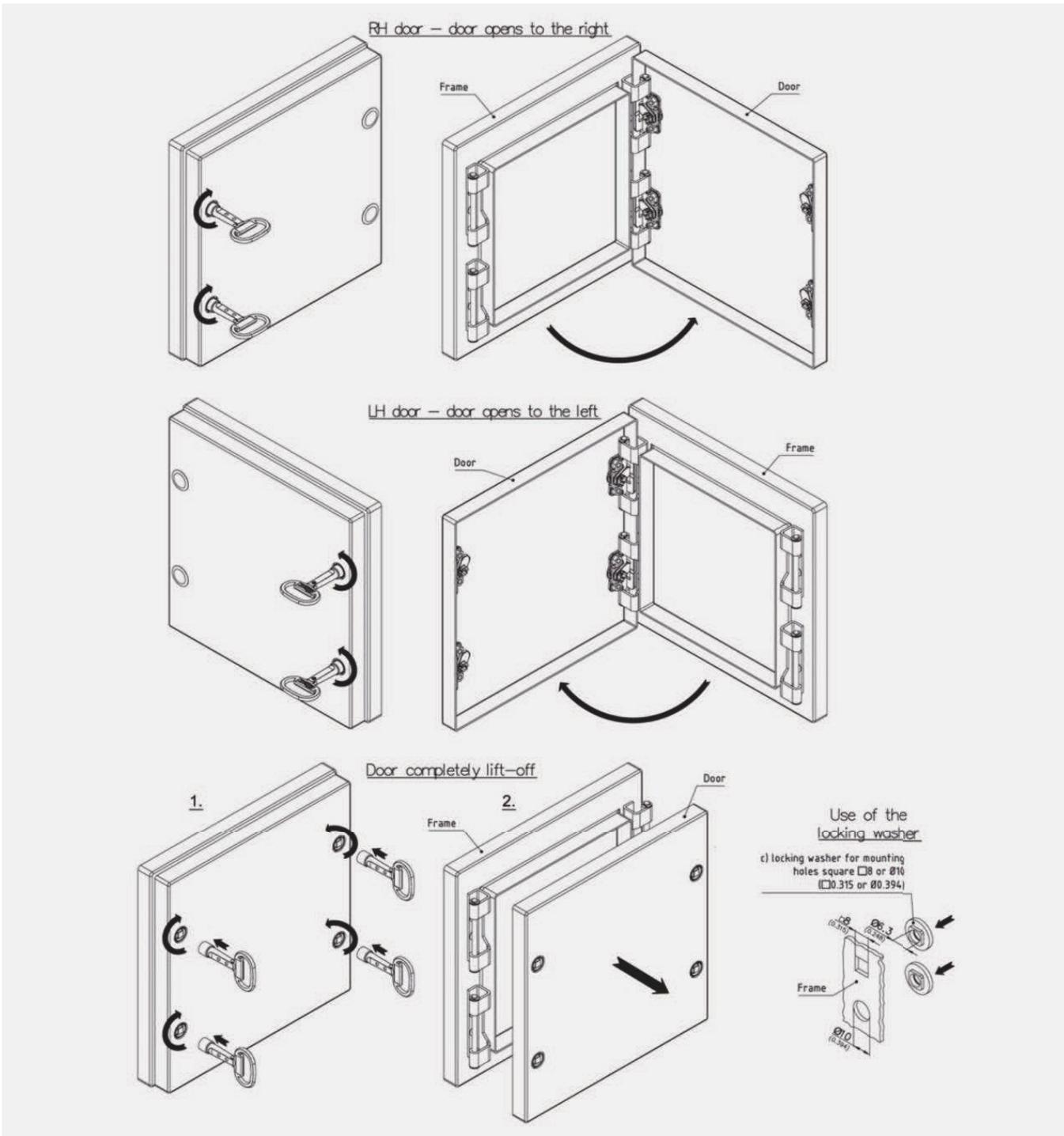


Reduction of the gap from 4.1 to 2.1 by notch 2mm/0.079inch material



Examples of application for 2mm material





Flush latch

	Part Number	Insert	Version	Installation type frame-part	Installation type door-part
a)	243-9218.00-00000	Square 8 mm	LH	serrated nut	screw-on
a)	243-9219.00-00000	Square 8 mm	LH	threaded pin	screw-on
a)	243-9220.00-00000	Double bit 3 mm pin	LH	serrated nut	screw-on
a)	243-9221.00-00000	Double bit 3 mm pin	LH	threaded pin	screw-on
a)	243-9222.00-00000	Square 8 mm	RH	serrated nut	screw-on
a)	243-9223.00-00000	Square 8 mm	RH	threaded pin	screw-on
a)	243-9224.00-00000	Double bit 3 mm pin	RH	serrated nut	screw-on
a)	243-9225.00-00000	Double bit 3 mm pin	RH	threaded pin	screw-on
a)	243-9226.00-00000	Square 8 mm with arrow	LH	serrated nut	screw-on
a)	243-9227.00-00000	Square 8 mm with arrow	RH	serrated nut	screw-on
a)	243-9228.00-00000	Square 8 mm with arrow	LH	threaded pin	screw-on
a)	243-9229.00-00000	Square 8 mm with arrow	RH	threaded pin	screw-on

✱	243-0501.00-00000	Fastening washer
	800-1105.00-00000	Weld stud M6 x 8
	292-0604.00-07035	Blind plug RAL 7035
	860-B193.00-00006	Serrated nut M6



RoHS
WEEE



Features

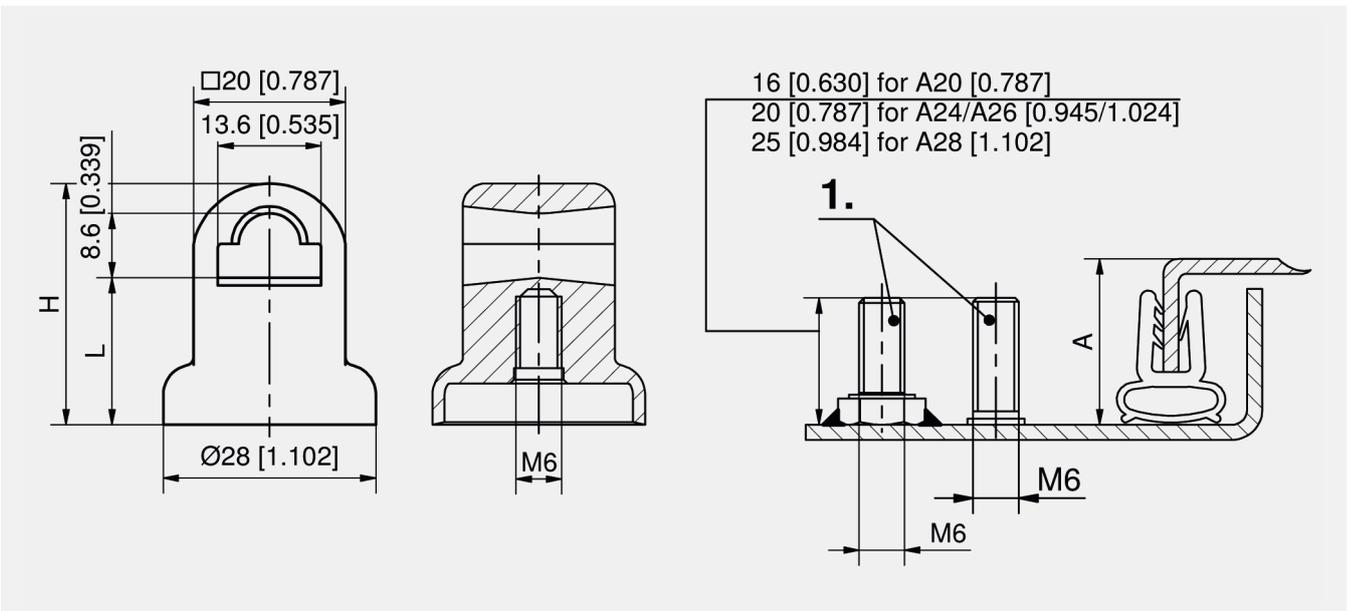
- With molded thread.
- Screwed onto a weld stud or weld-on screw.
- The round shape of the hole allows free swivelling even with very short rods.

Material and surface

Rod guide: PA, black

Note

1. = Length of the weld studs or screws M6:
 16 mm for A20
 20 mm for A24/A26
 25 mm for A28



Rod guide

Part Number	Version	Fastening	Material	Bending
200-3623.51-00000	RS	screwed on	PA	A20
200-3624.51-00000	RS	screwed on	PA	A24
200-3625.51-00000	RS	screwed on	PA	A26
200-3626.51-00000	RS	screwed on	PA	A28

Rod guides for 8 mm round rods. Version a) adjustable in height to compensate production tolerances or if sealing has set.

Features

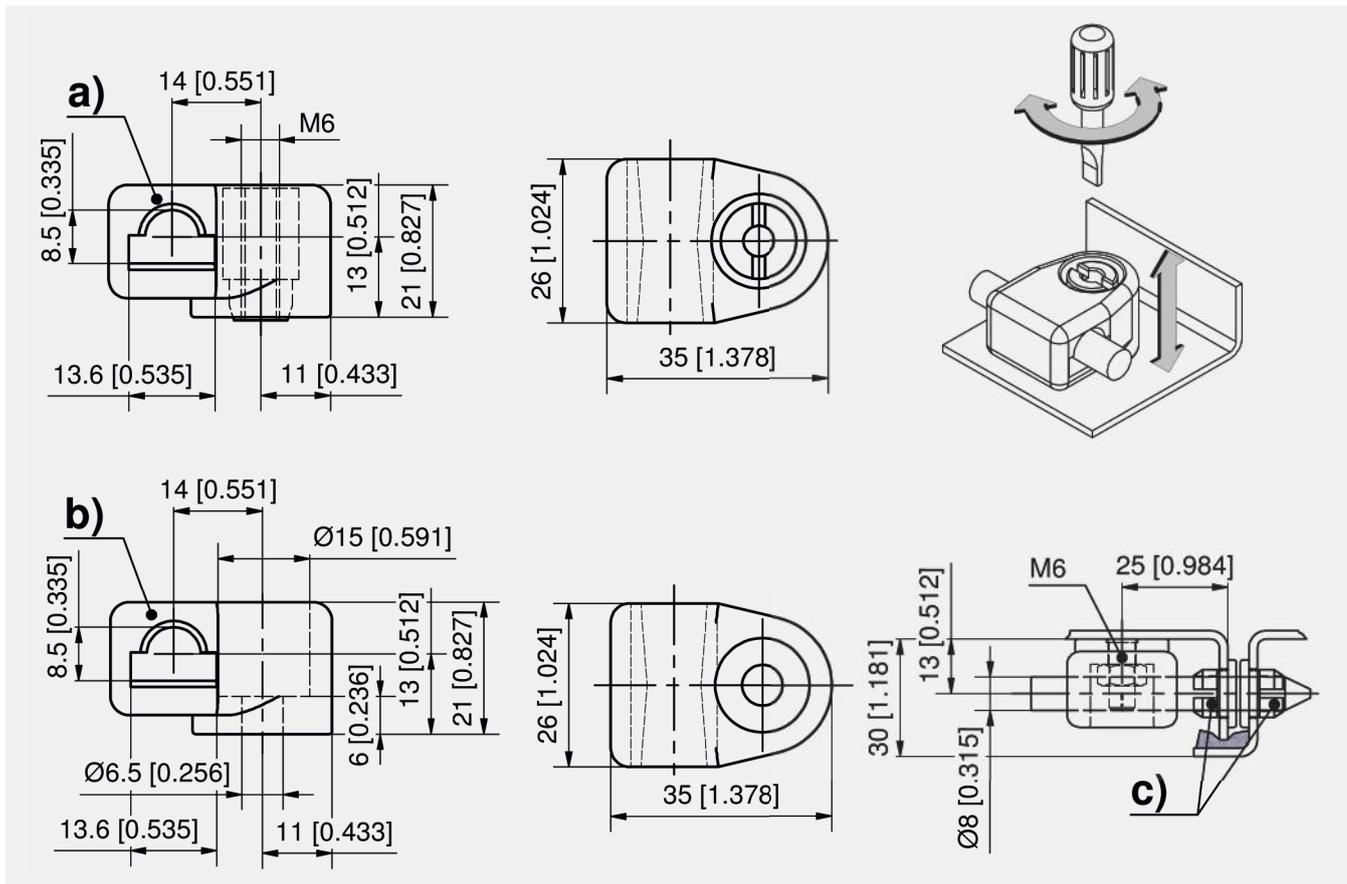
- The rod guide can be adjusted in height by a slotted insert (max. 12 x 2 mm).
- With this rod guide even completely pre-assembled rod latch systems can be installed, because the rod guide can be screwed onto the thread of the weld studs M6, by turning the threaded sleeve.
- The round shape of the hole allows free swivelling even with very short rods.
- Stainless steel version see product system 7-912.

Material and surface

Rod guide: PA, black
Adjusting Sleeve: steel, zinc plated
Snap ring: stainless steel

Note

Adjustment depending on the length of the weld stud:
 M6 x 14 +5/-1 mm
 M6 x 16 +5/-3 mm
 M6 x 18 +5/-5 mm
 M6 x 20 +5/-7 mm



Rod guide

	Part Number	Version	Fastening	Material	height adjustable	Adjustment range
a)	200-9615.00-00000	RS	screwed on	PA	Yes	max. + 5 mm
b)	200-3606.03-00000	RS	screwed on	PA		
*	203-0605.03-00000			Bushings		



RoHS
WEEE



For designing multipoint locking systems.

Features

- RH / LH application.
- Flexible use on Quarter-turns with 18 mm housings or swinghandles.
- As the examples show, the controlling Quarter-turn can be installed in different positions.
- The driving rod actuates all cams simultaneously.
- (1.) Assembly distance washer on weld-stud M6 x 32.

Material and surface

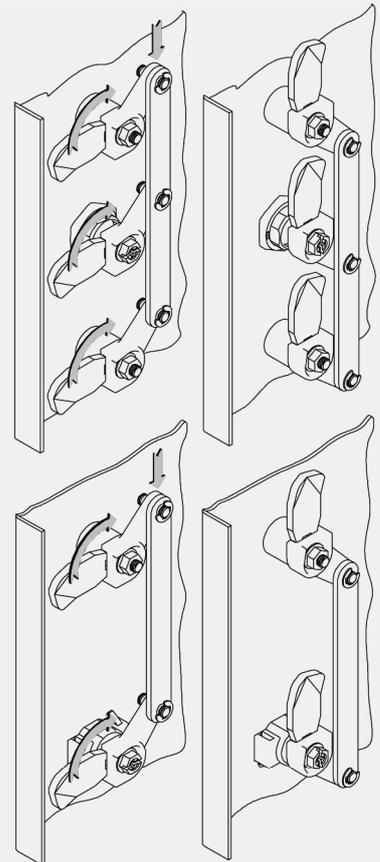
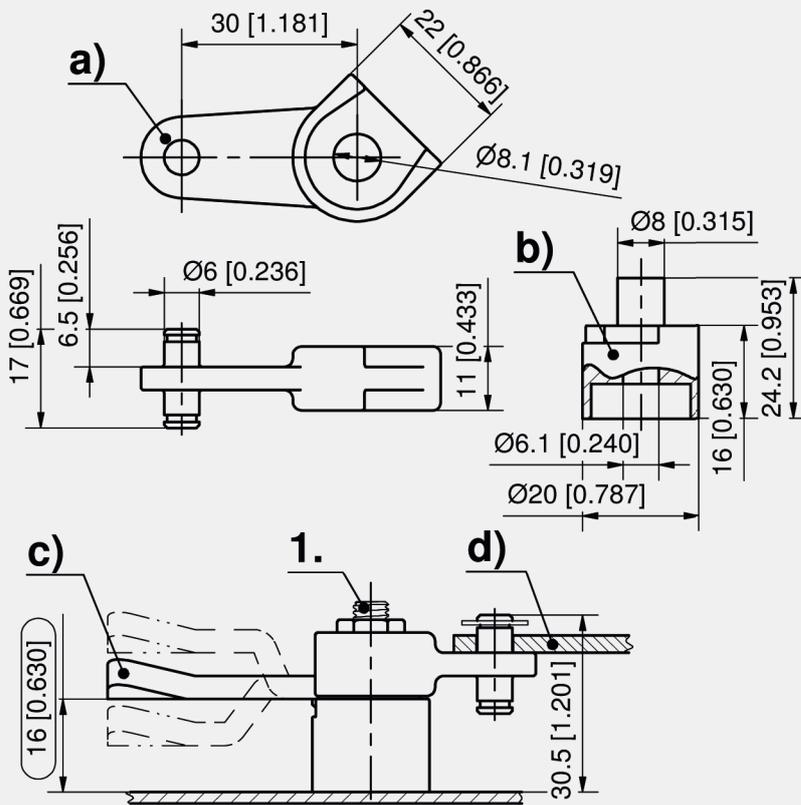
Cam adapter and spacer: zinc die, zinc plated

C-clip: steel, zinc plated

Note

d) For driving rods please contact DIRAK.

H-dimension (18) only for sheet thickness 2 mm.



Cam adapter

	Part Number	Type	packaging unit
a)	100-9033.00-00000	Cam adapter (incl.spacer)	10
b)	200-2811.35-00000	Distance washer	10

Dust caps and sealing plugs for Quarter-Turns.

Features

- **Dust caps** for head
Ø28 mm–Ø32 mm.
- **Material TPU:**
- Excellent resistance to pure mineral oils and greases
- **Sealing plugs** for inner diameter Ø16.1 mm.

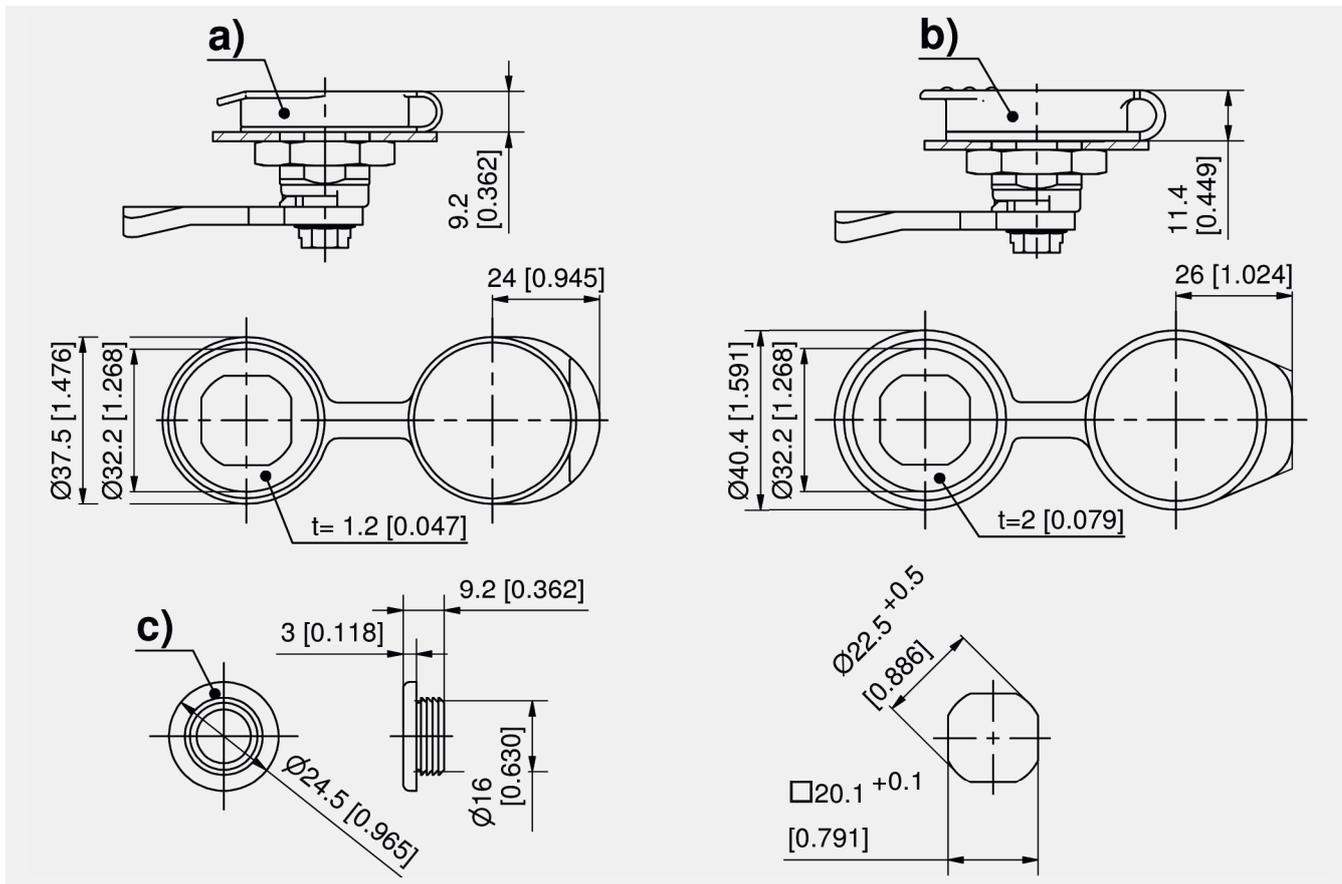
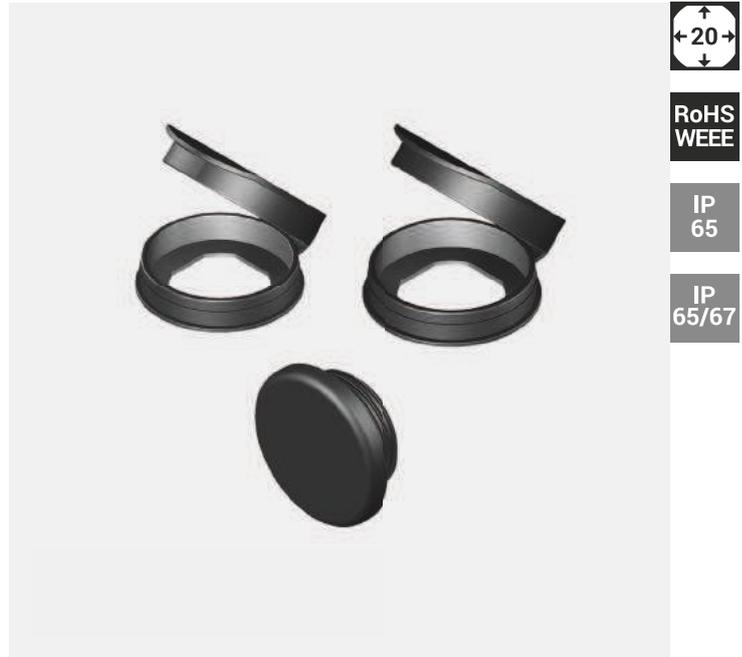
Material and surface

- Dust cap:** PP or TPU, black
- Sealing Plug:** NBR+PVC, black

Note

By using a dust cap the H-dimension changes by 1.2 respectively 2 mm.

The sealing plug is only for out-side triangular respectively square insert!



Accessories Quarter-turn

	Part Number	Type	Material	Surface	According to DIN EN 60529	Temperature range
a)	200-4101.00-00000	Dust cap	PP	black	IP65	0° to +80°C
b)	200-4103.00-00000	Dust cap	TPU	black	IP65/67	-40° to +100°C
c)	292-0606.00-00000	Sealing plug	NBR+PVC	black	IP65	



RoHS
WEEE



Features

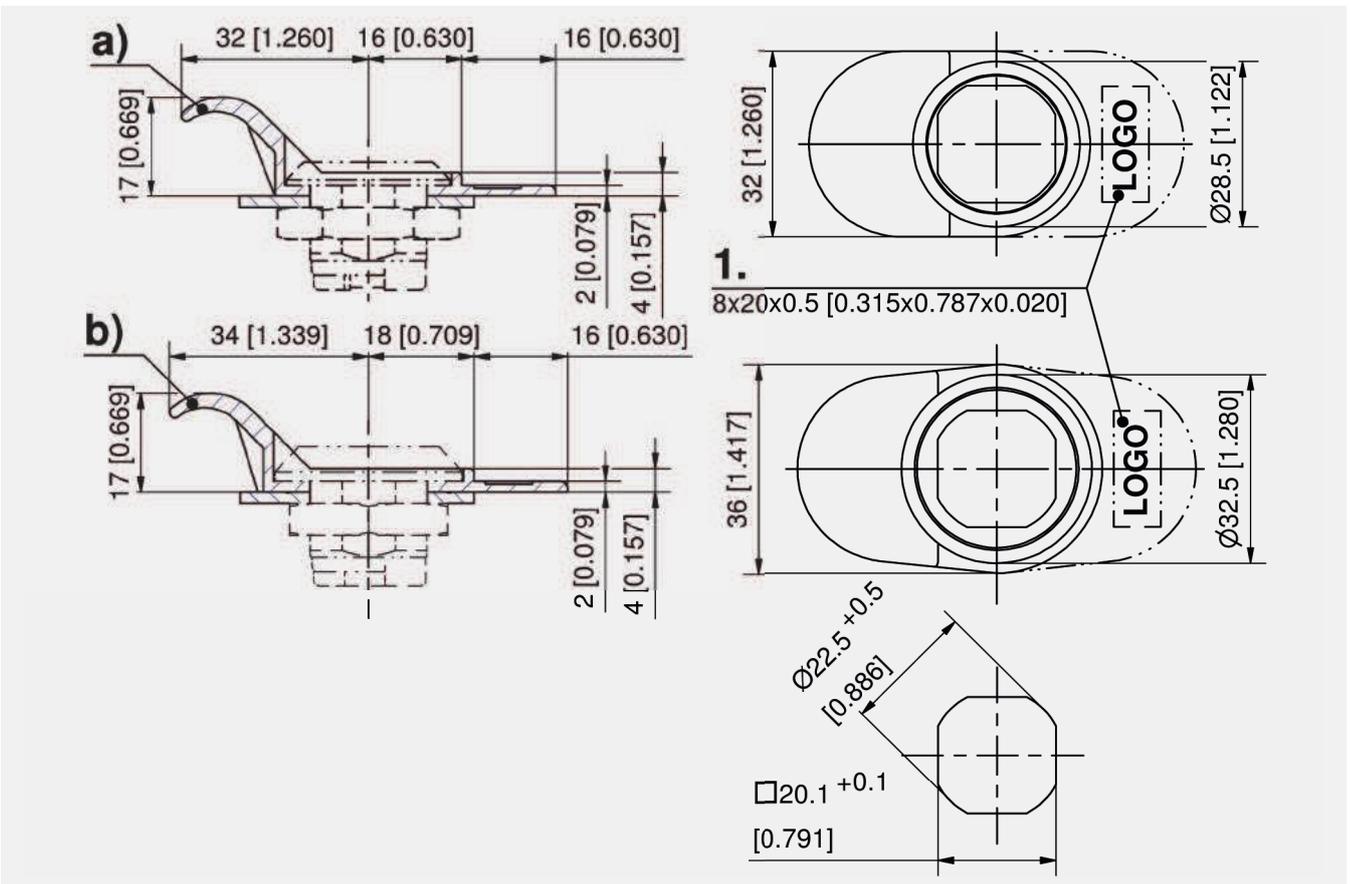
- For head Ø28 mm see product system 1-083, 1-095, 1-100, 1-120, 1-121, 1-210, 7-080 and 7-082.
- For head Ø30/32 mm see product system 1-077, 1-081, 1-085, 1-086, 1-092, 1-100, 1-110, 1-120, 1-200, 7-080.01 and 7-084.
- 1. = Area for company name or logo.
- With Logo on request.

Material and surface

Finger Pull: PA, black

Note

By using a finger pull the H-dimension changes by 2 mm.



Accessories Quarter-turn

	Part Number	Type	Material	Surface	Recess for label
a)	200-4703.03-00000	Finger pull Ø28	PA	black	No
a)	200-4704.03-00000	Finger pull Ø28	PA	black	Yes
b)	200-4705.03-00000	Finger pull Ø32	PA	black	No
b)	200-4706.03-00000	Finger pull Ø32	PA	black	Yes

LED module visualises the locking status and regular red flashing indicates open position.

Features

- Stand-alone solution.
- For Quarter-turns Pr20.1 with flat head $\varnothing 32$ mm.
- **Magnet support reversible:**
 1. for cams L35/45
 2. 3-point cam-adapter.
- Cap removable for battery change.
- In combination with IP approved Quarter-turns the LED module requires an **additional flat seal**.

Material and surface

Flash disc: PMMA
Module housing and adapter: PA

Note

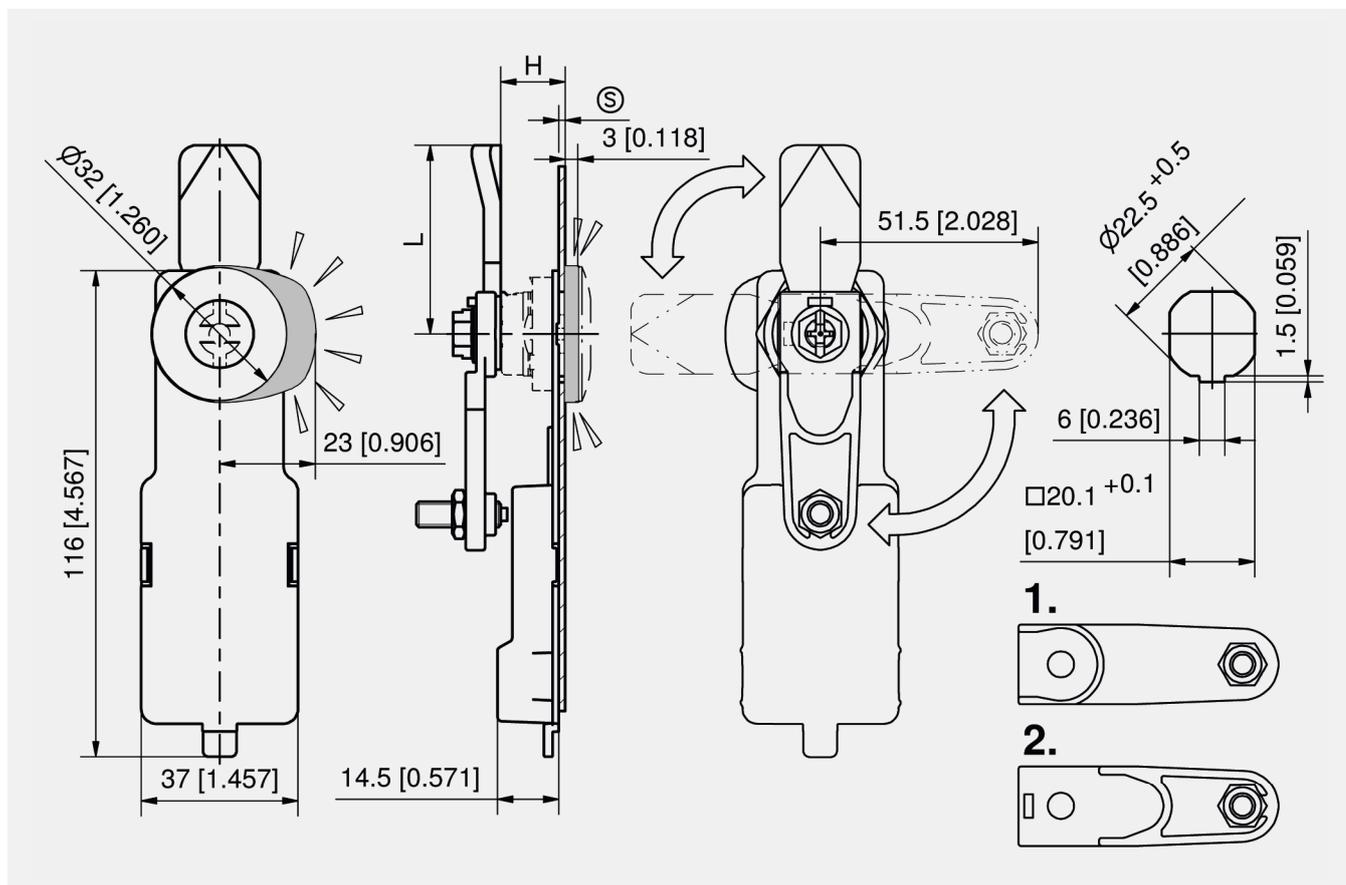
Battery CR2032 3V **not** included in the scope of delivery.

Attention:

Installation of the LED module leads to a max. door thickness of 3.5 mm.
 Depending on the position of the flash disc the notch in the cutout needs to be adapted.



RoHS
WEEE



LED Module

Part Number	Type	Version
100-9901.00-00000	LED Module	red flashing

RoHS
WEEE



Features

- Hooked cam with free stroke.
- Version RH, hook LH.
- Version LH, hook RH.
- Opening angle of the hook 15°.
- Please configure the Sliding Door Latch with escutcheon and insert or T- and L-handle or with swinghandle.

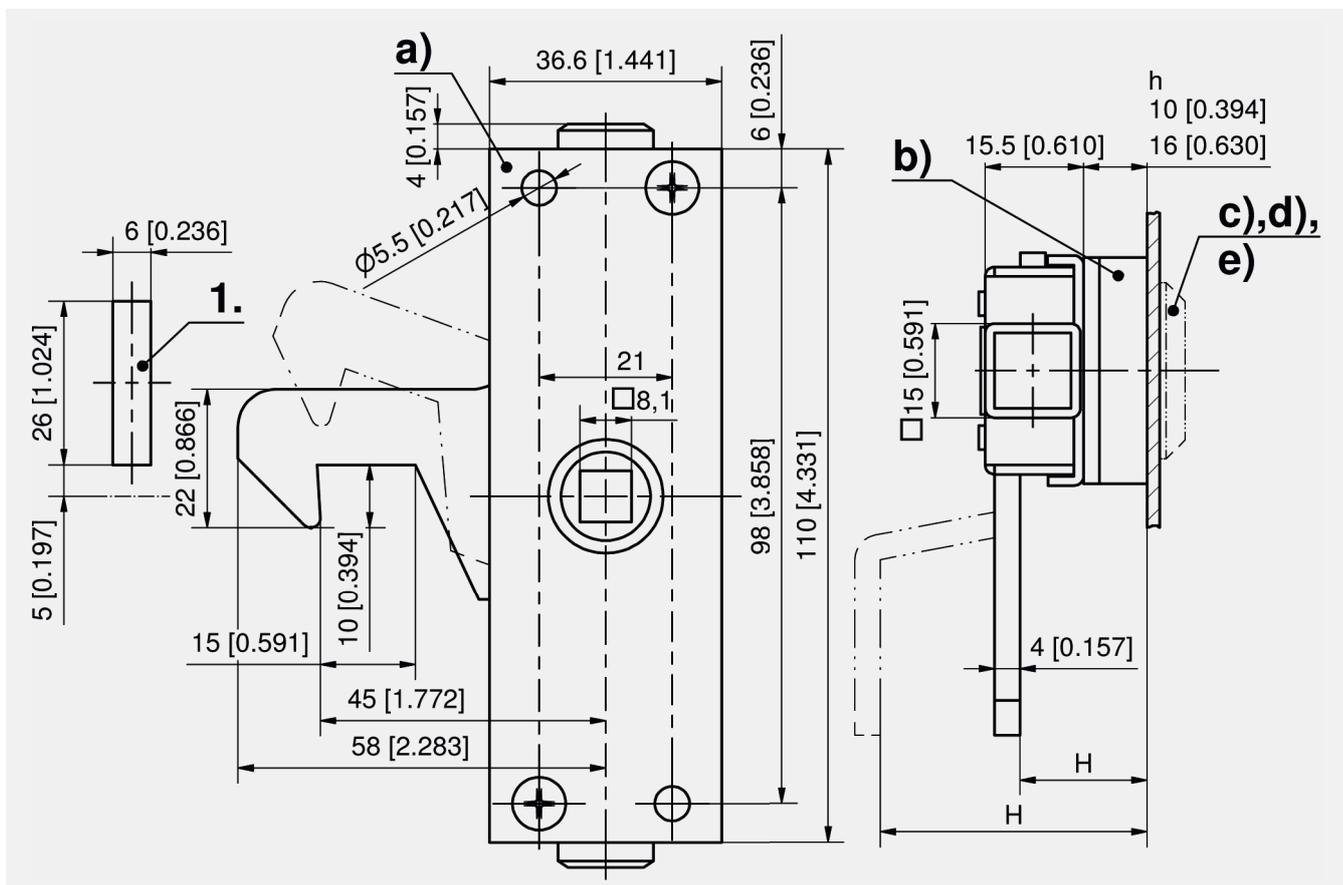
Material and surface

- a) **Sliding door latch:** steel, zinc plated
- Cam:** steel, zinc plated
- Plug:** PE, black
- b) **Lock support:** steel, zinc plated

Note

- Please order separately:
- b) Lock support

1. Example for frame cutout.



Sliding door version LH, slide direction RH

	Part Number	Installation type	H-dimension without lock support	H-dimension with lock support A20	H-dimension with lock support A26
a)	235-9015.00-00000	screw-on	10	20	26
a)	235-9017.00-00000	screw-on	32	42	48

Sliding door version RH, slide direction LH

	Part Number	Installation type	H-dimension without lock support	H-dimension with lock support A20	H-dimension with lock support A26
a)	235-9016.00-00000	screw-on	10	20	26
a)	235-9018.00-00000	screw-on	32	42	48

✱	235-1001.00-00000	Lock support A20
	235-1002.00-00000	Lock support A26
	235-9101.00-00000	Insert, Square 6 mm
	235-9102.00-00000	Insert, Square 7 mm
	235-9103.00-00000	Insert, Square 8 mm
	235-9104.00-00000	Insert, Triangular 6.5 mm CNOMO
	235-9105.00-00000	Insert, Triangular 7 mm
	235-9106.00-00000	Insert, Triangular 8 mm
	235-9107.00-00000	Insert, Double bit 3 mm pin
	235-9108.00-00000	Insert, Double bit 5 mm pin
	235-9109.00-00000	Insert, Daimler Benz pin
	235-9201.00-00000	Escutcheon A20 for Double bit
	235-9202.00-00000	Escutcheon A26, for Double bit
	235-9203.00-00000	Escutcheon A20, universal
	235-9204.00-00000	Escutcheon A26, universal



Swinghandle with 90° closing rotation. For 3-point cams/round rods.

Features

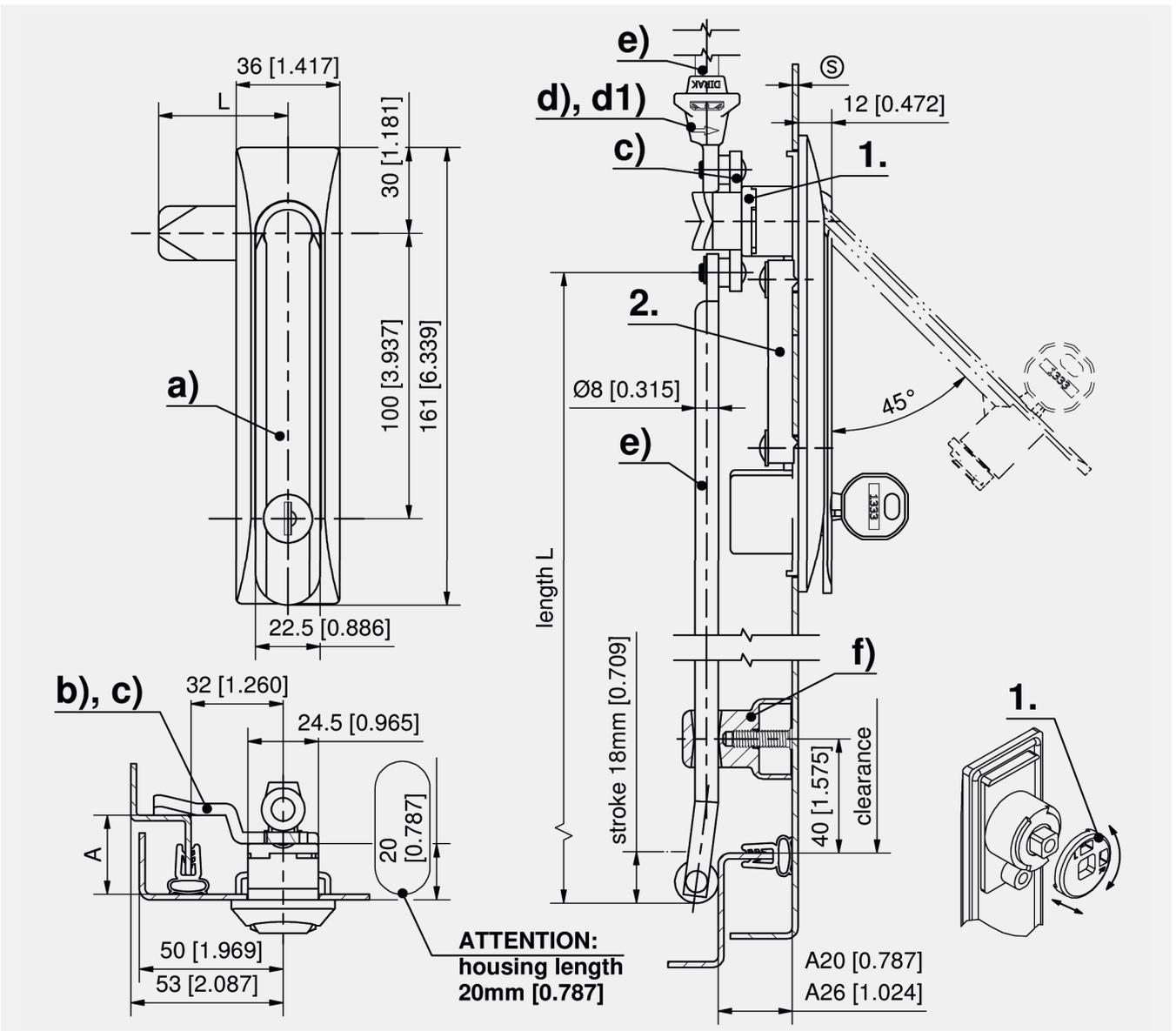
- Low profile design.
- Cylinder barrel DIRAK 1333 with stainless steel dust cap.
- The pre-assembled swinghandle (single or 3-point cam) can be inserted from the back into the cutout and secured with screws.
- RH / LH application is achieved by the rotating bottom with limiting stop at 90°.
- IP65 DIN EN 60529 by captive sealing.
- Key with synthetic coated grip.

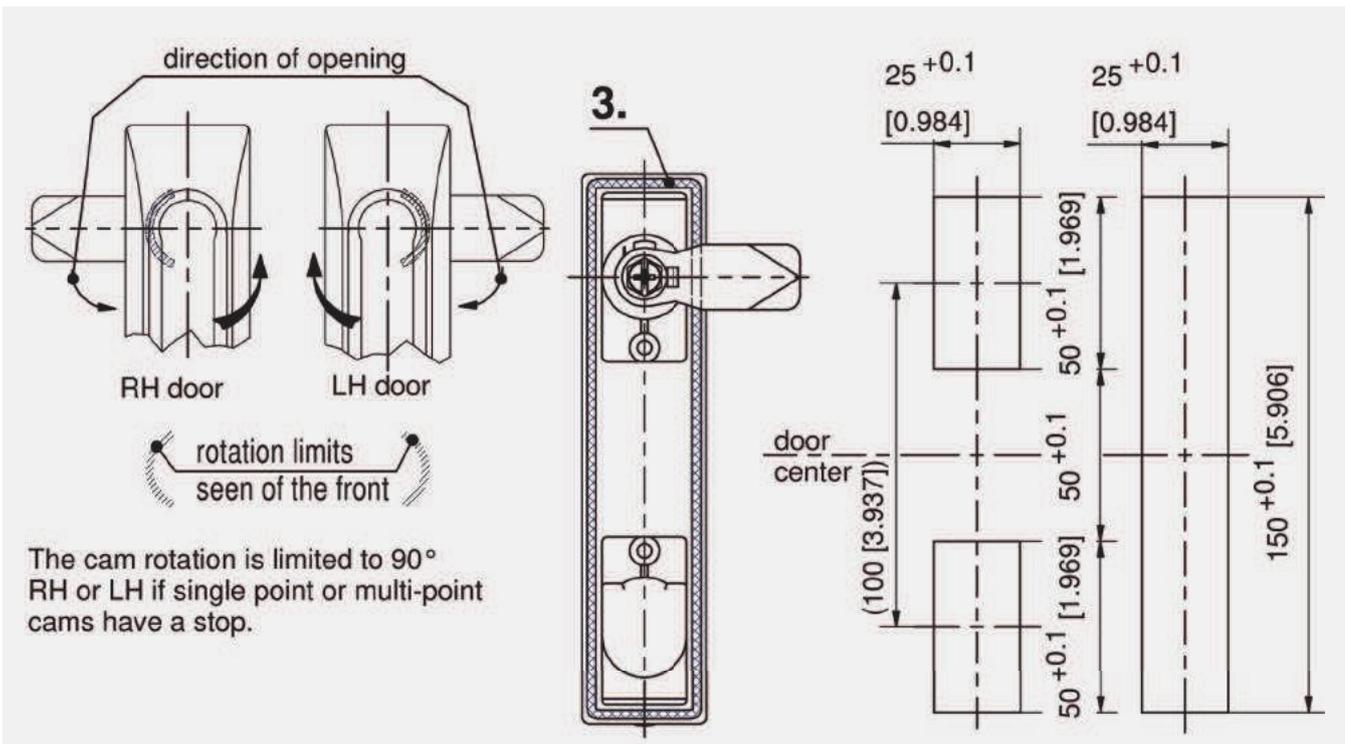
Material and surface

- Swinghandle, shaft and bottom:** zinc die, black
- Dish:** PA6, black
- Cam:** zinc die, untreated
- O-ring:** NBR
- Seal:** TPE
- Screws and clamp:** steel, zinc plated

Note

- H-dimension of cam** ≥ 16 mm.
- (S) = max. 3 mm
- 1. = Rotating bottom
- 2. = Clamp
- 3. = Captive seal





The cam rotation is limited to 90°
 RH or LH if single point or multi-point
 cams have a stop.

Formula for rods with eye and rollers:
 cutout in the door center (rod length varies)

$$L = \frac{\text{clearance} - 12\text{mm}[0.472]}{2 [0.079]} - 50 \text{ mm} [1.969]$$

$$L = \frac{\text{clearance} - 12\text{mm}[0.472]}{2 [0.079]} + 50 \text{ mm} [1.969]$$

cutout outside the door center (rod length equal)

$$L = \frac{\text{clearance} - 12\text{mm}[0.472]}{2[0.079]}$$

Swinghandle

	Part Number	Latching type	Installation type	Lockable
a)	407-9604.00-00000	Cylinder	screw-on	Yes

SNAP

C



DIN 61373

IP 65

R L

RoHS WEEE



Swinghandle with 90° closing rotation. For 3-point cams / round rods.

Features

- Low profile design.
- Cylinder barrel DIRAK 1333 with stainless steel dust cap.
- The pre-assembled Swinghandle (single or 3-point cam) can simply be snapped into the cutout.
- RH / LH application is achieved by the rotating bottom with limiting stop at 90°.
- IP65 DIN EN 60529 by captive sealing.
- Key with synthetic coated grip.

Material and surface

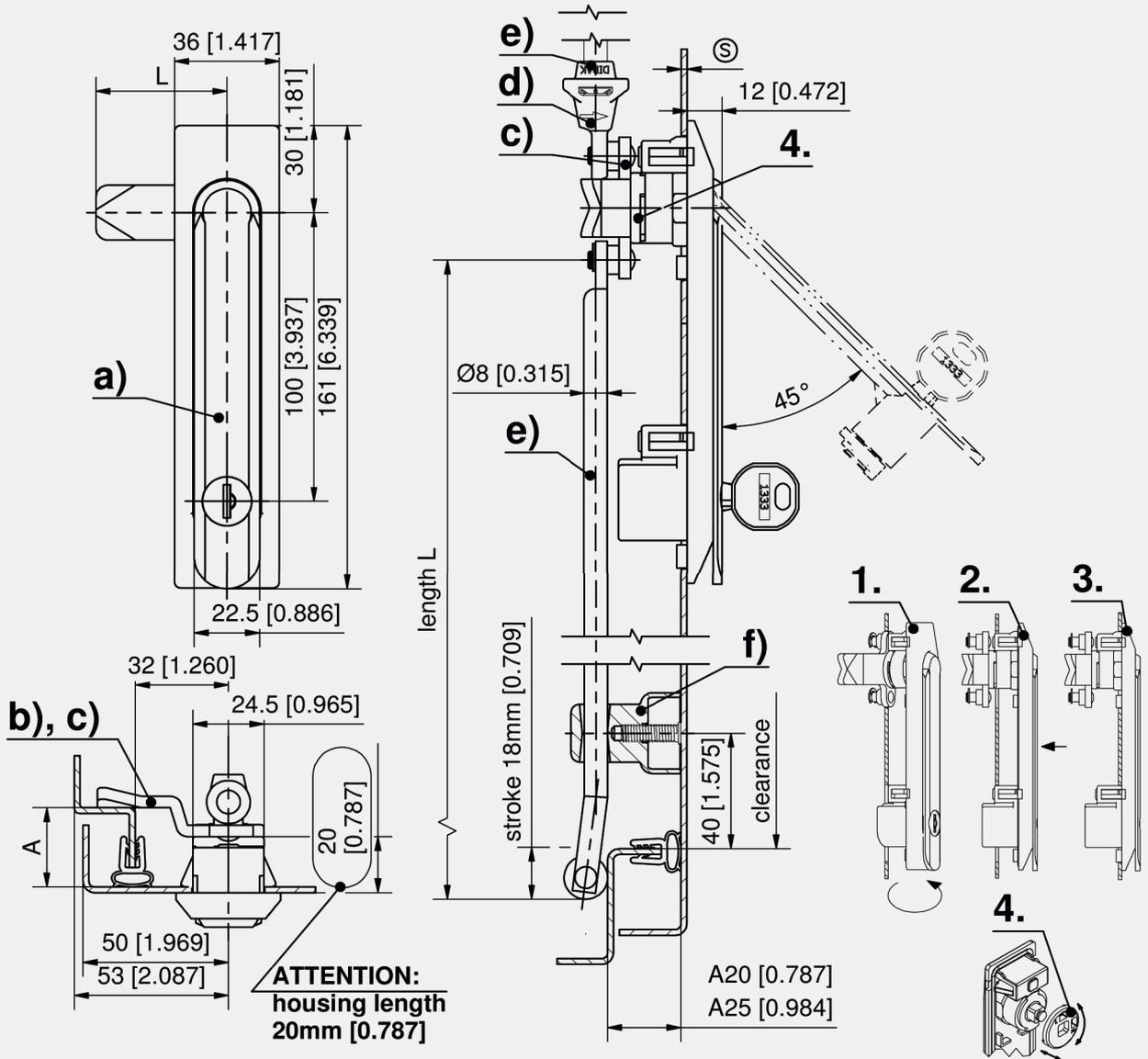
Swinghandle and dish: zinc die, black

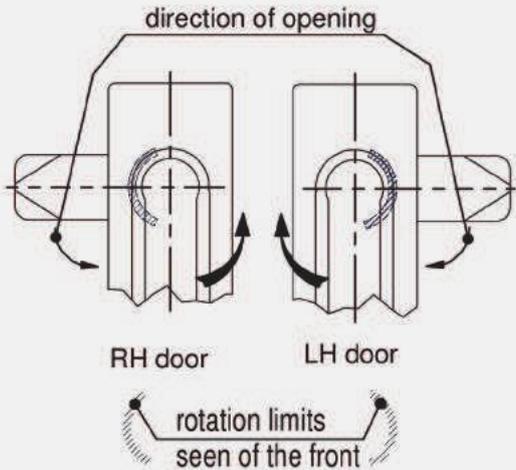
Seal: TPE

Note

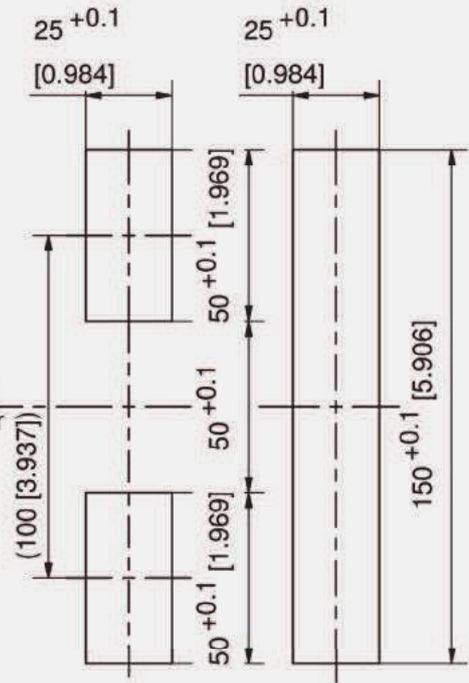
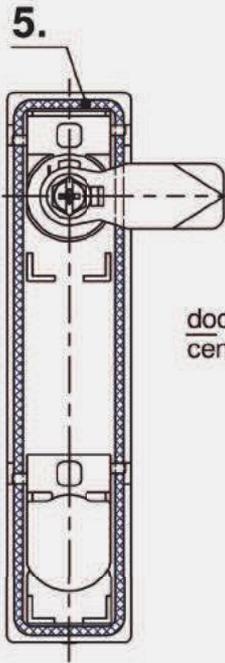
H-dimension of cam ≥ 16 mm.

1. = Guide Swinghandle with pre-assembled cam through upper cutout
2. = Swinghandle completely snapped in
3. = Final position fully snapped
4. = Rotating bottom
5. = Captive seal





The cam rotation is limited to 90°
RH or LH if single point or multi-point
cams have a stop.



Formula for rods with eye and rollers:
cutout in the door center (rod length varies)

$$L = \frac{\text{clearance} - 12\text{mm}[0.472]}{2 [0.079]} - 50 \text{ mm} [1.969]$$

$$L = \frac{\text{clearance} - 12\text{mm}[0.472]}{2 [0.079]} + 50 \text{ mm} [1.969]$$

cutout outside the door center (rod length equal)

$$L = \frac{\text{clearance} - 12\text{mm}[0.472]}{2[0.079]}$$

Swinghandle zinc die, black with cylinder barrel

	Part Number	Latching type	Installation type	Clamping range
a)	407-9601.00-00015	keyed alike DIRAK 1333	snap-in	1,2-1,7
a)	407-9601.00-00020	keyed alike DIRAK 1333	snap-in	1,7-2,2
a)	407-9601.00-00025	keyed alike DIRAK 1333	snap-in	2,2-2,7
	292-0306.80-02530	Tool for uninstallation		

SNAP



IP 65



RoHS WEEE



Swinghandle with 90° closing rotation. For 3-point cams / round rods.

Features

- Low profile design.
- Cylinder barrel DIRAK 1333 with stainless steel dust cap.
- The pre-assembled Swinghandle (single or 3-point cam) can simply be snapped into the cutout.
- RH / LH application is achieved by the rotating bottom with limiting stop at 90°.
- IP65 DIN EN 60529 by captive sealing.
- Key with synthetic coated grip.

Material and surface

Swinghandle: zinc die, black

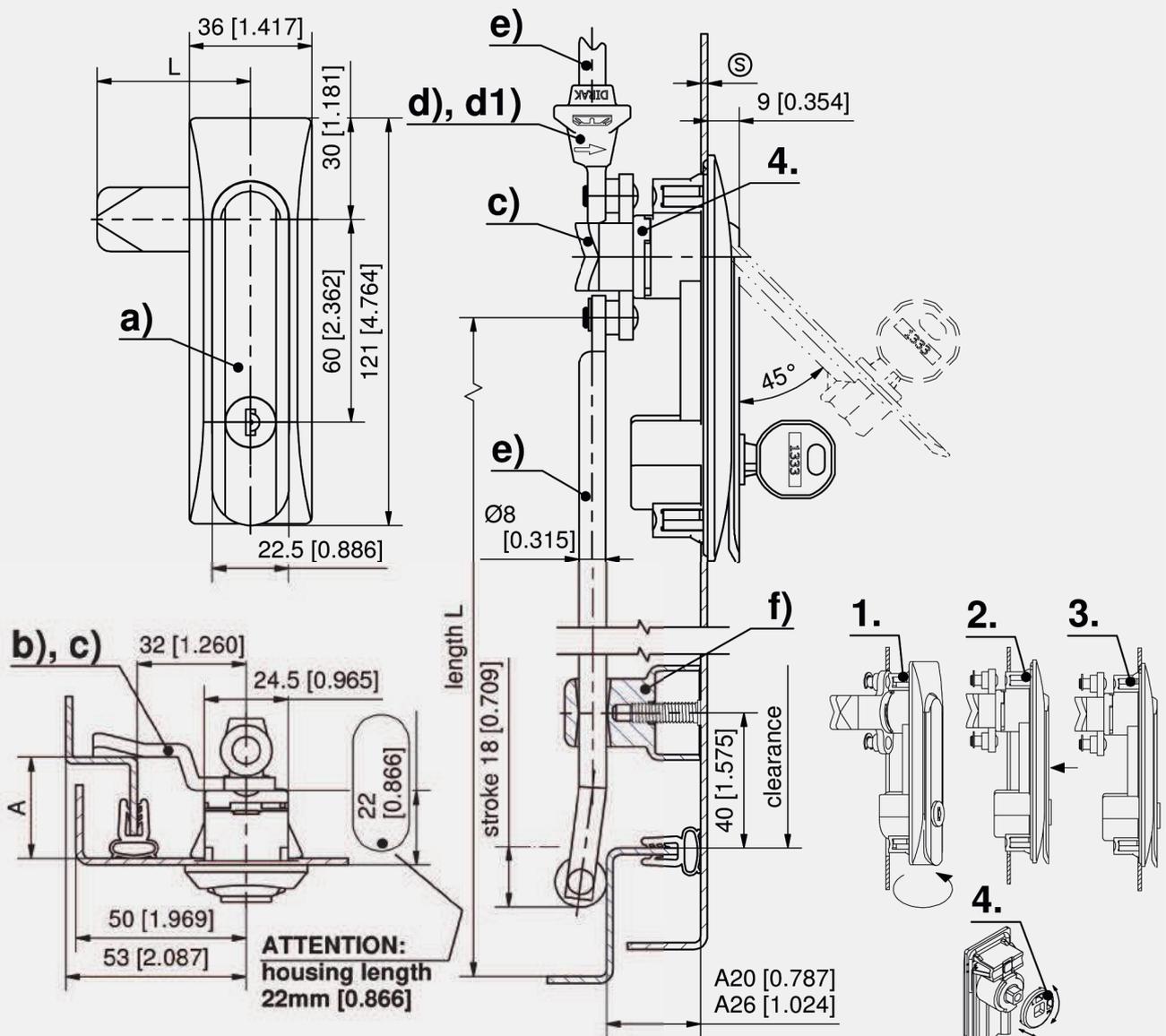
Dish: PA6, black

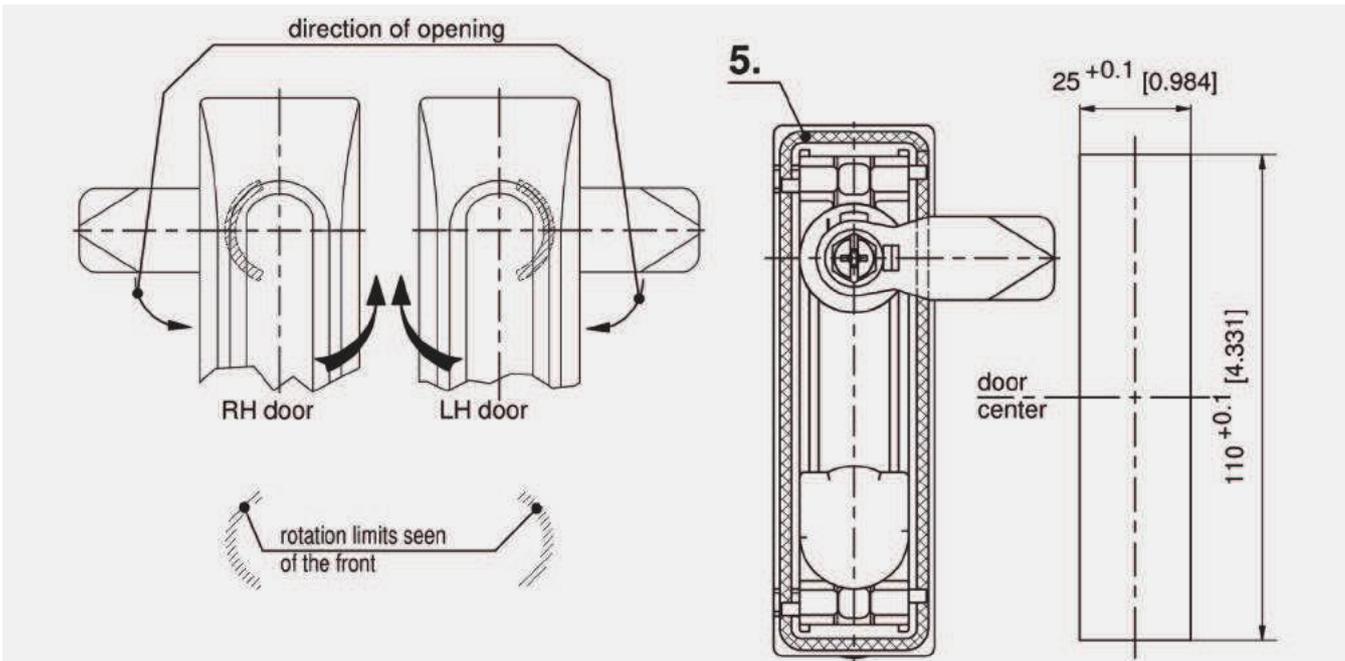
Seal: TPE

Note

H-dimension of cam ≥ 10 mm.

1. = Guide Swinghandle with pre-assembled cam through upper cutout
2. = Swinghandle completely snapped in
3. = Final position fully snapped
4. = Rotating bottom
5. = Captive seal





The cam rotation is limited to 90°
 RH or LH if single point or multi-point
 cams have a stop.

Formula for rods with eye and rollers:
 cutout in the door center (rod length varies)

$$L = \frac{\text{clearance} - 12\text{mm}[0.472]}{2 [0.079]} - 30\text{ mm} [1.181]$$

upper rod

$$L = \frac{\text{clearance} - 12\text{mm}[0.472]}{2 [0.079]} + 30\text{ mm} [1.181]$$

lower rod

cutout outside the door center (rod length equal)

$$L = \frac{\text{clearance} - 12\text{mm}[0.472]}{2[0.079]}$$

Swinghandle, handle zinc die, dish PA, black with cylinder barrel

	Part Number	Latching type	Installation type	Clamping range
a)	407-9602.00-00015	keyed alike DIRAK 1333	snap-in	1,2-1,7
a)	407-9602.00-00020	keyed alike DIRAK 1333	snap-in	1,7-2,2
a)	407-9602.00-00025	keyed alike DIRAK 1333	snap-in	2,2-2,7
*	292-0306.80-02530	Tool for uninstallation		

SNAP



RoHS
WEEE



Swinghandle with 90° closing rotation. For 3-point cams / round rods.

Features

- Low profile design.
- Cylinder barrel DIRAK 1333 with stainless steel dust cap.
- The pre-assembled Swinghandle (single or 3-point cam) can simply be snapped into the cutout.
- RH / LH application is achieved by the rotating bottom with limiting stop at 90°.
- Key with synthetic coated grip.

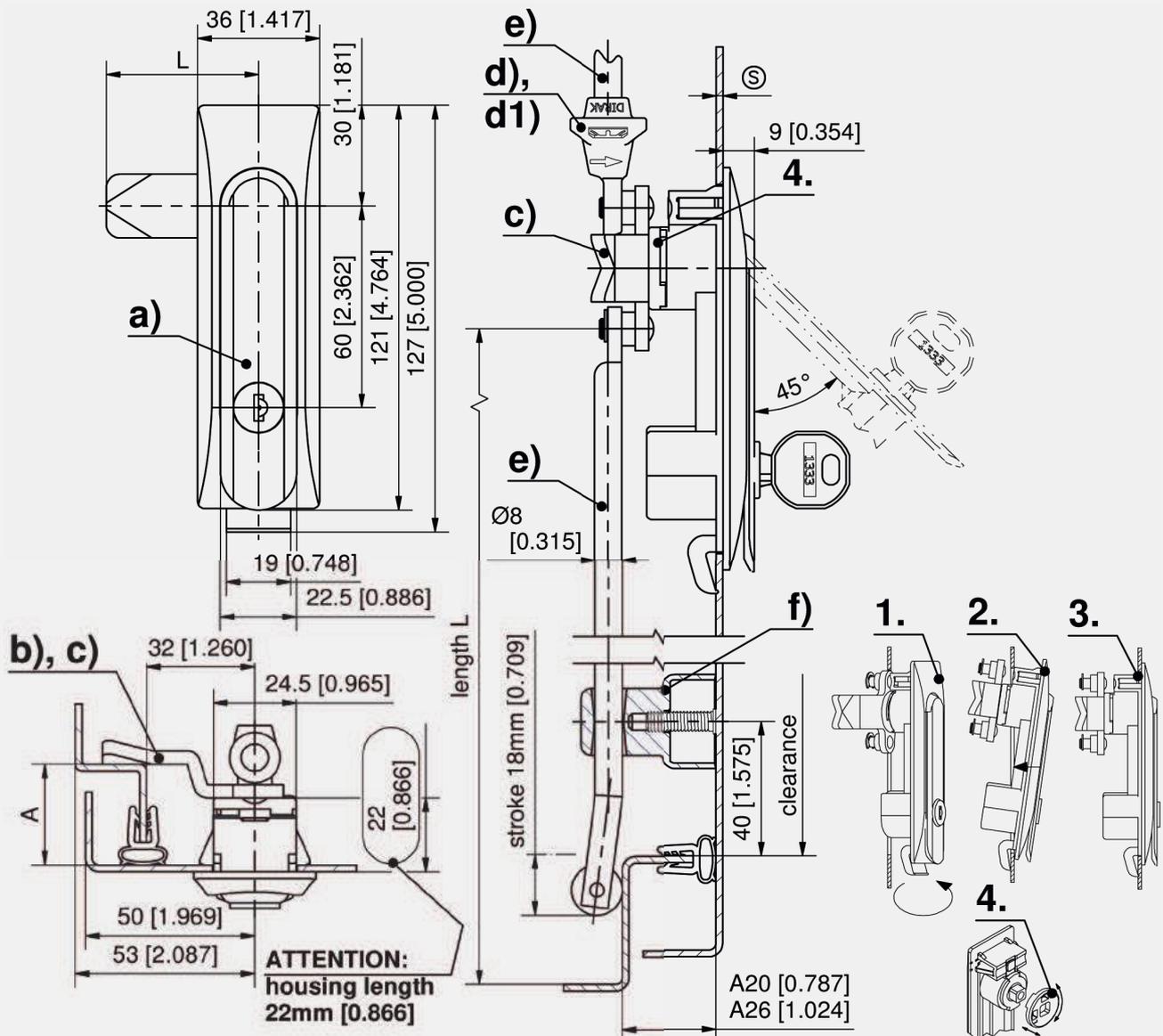
Material and surface

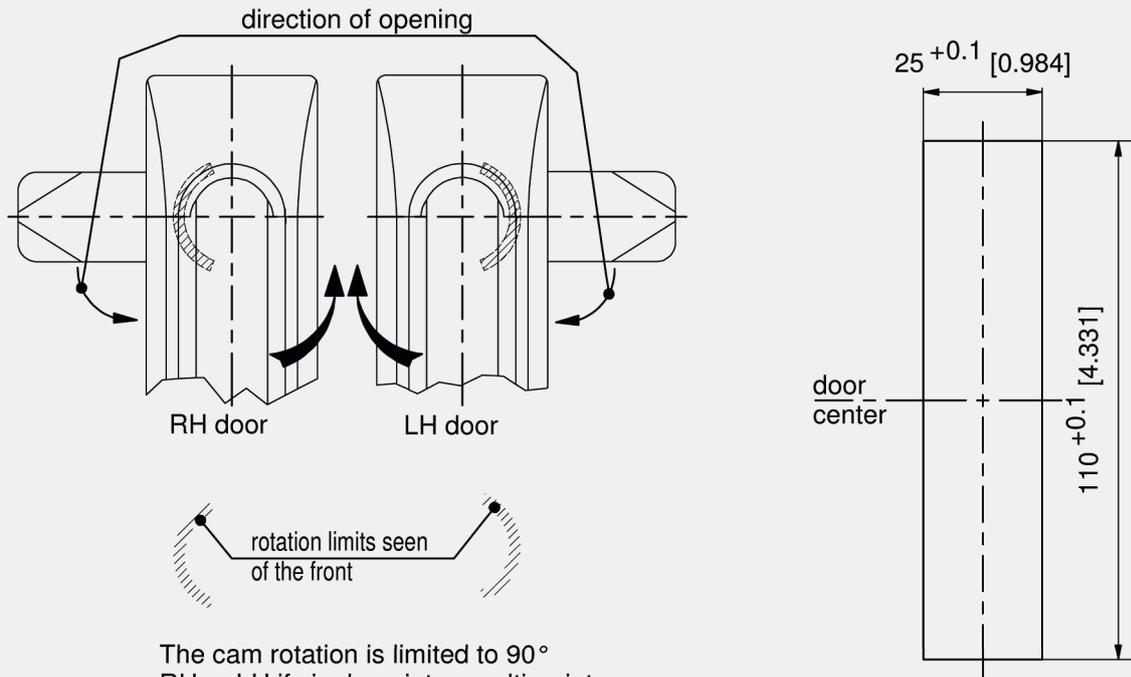
Swinghandle: zinc die, black
Dish: PA6, black

Note

H-dimension of cam ≥ 10 mm.

1. = Guide Swinghandle with pre-assembled cam through cutout
2. = Put lower hook into position and snap upper part into final position
3. = Final position fully snapped
4. = Rotating bottom





The cam rotation is limited to 90°
 RH or LH if single point or multi-point
 cams have a stop.

Formula for rods with eye and rollers:
 cutout in the door center (rod length varies)

$$L = \frac{\text{clearance} - 12\text{mm}[0.472]}{2 [0.079]} - 30 \text{ mm} [1.181]$$

upper rod

$$L = \frac{\text{clearance} - 12\text{mm}[0.472]}{2 [0.079]} + 30 \text{ mm} [1.181]$$

lower rod

cutout outside the door center (rod length equal)

$$L = \frac{\text{clearance} - 12\text{mm}[0.472]}{2[0.079]}$$

Swinghandle, handle zinc die, dish PA, black with cylinder barrel

	Part Number	Latching type	Installation type	Clamping range
a)	407-9603.00-00015	keyed alike DIRAK 1333	snap-in	1,2–1,7
a)	407-9603.00-00020	keyed alike DIRAK 1333	snap-in	1,7–2,2
a)	407-9603.00-00025	keyed alike DIRAK 1333	snap-in	2,2–2,7
	292-0306.80-02530	Tool for uninstallation		

SNAP

C



R L

RoHS
WEEE



Swinghandle with 90° closing rotation. For 3-point cams / round rods.

Features

- Low profile design.
- Cylinder barrel DIRAK 1333 with stainless steel dust cap.
- The pre-assembled Swinghandle (single or 3-point cam) can simply be snapped into the cutout.
- RH / LH application is achieved by the rotating bottom with limiting stop at 90°.

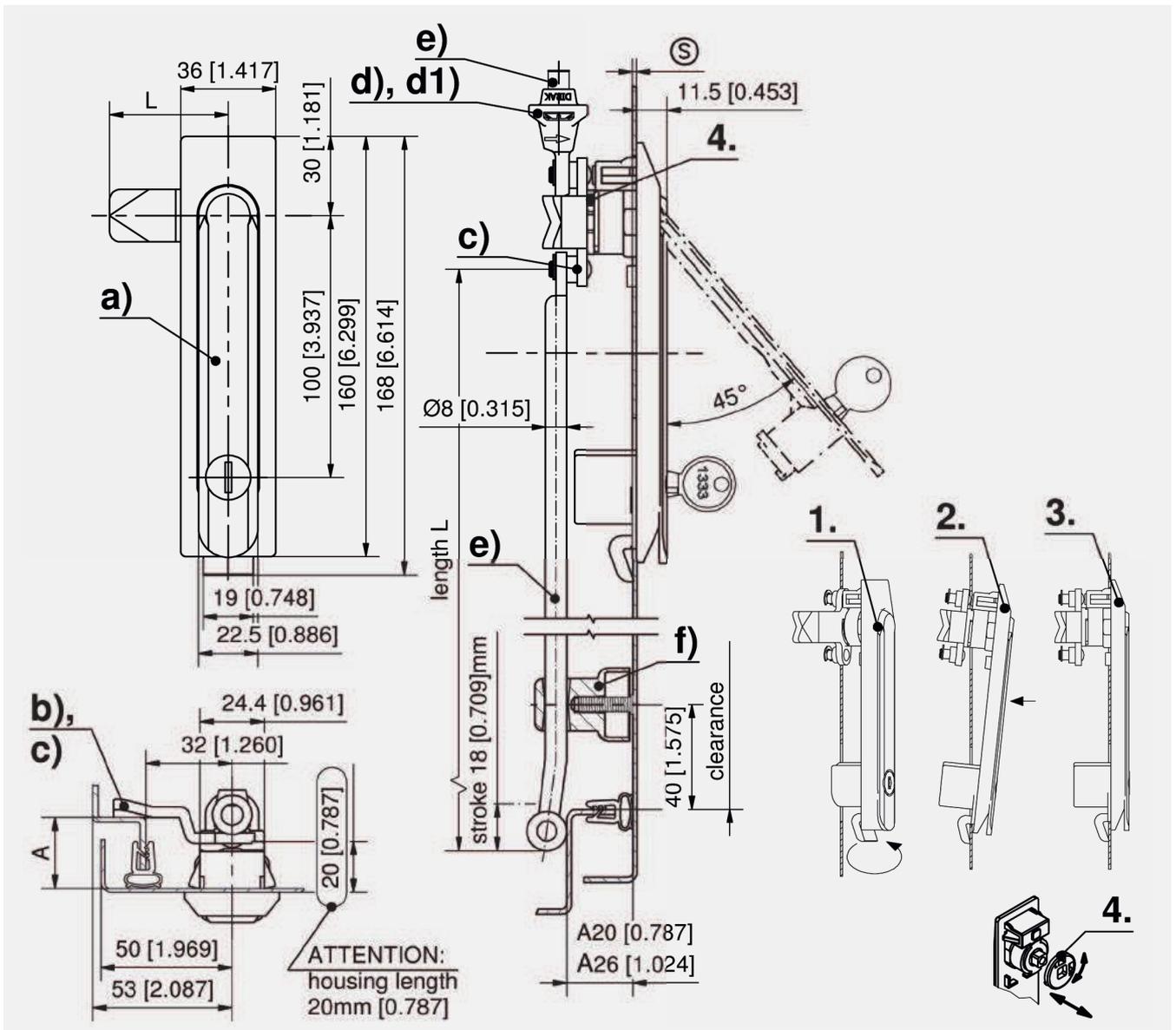
Material and surface

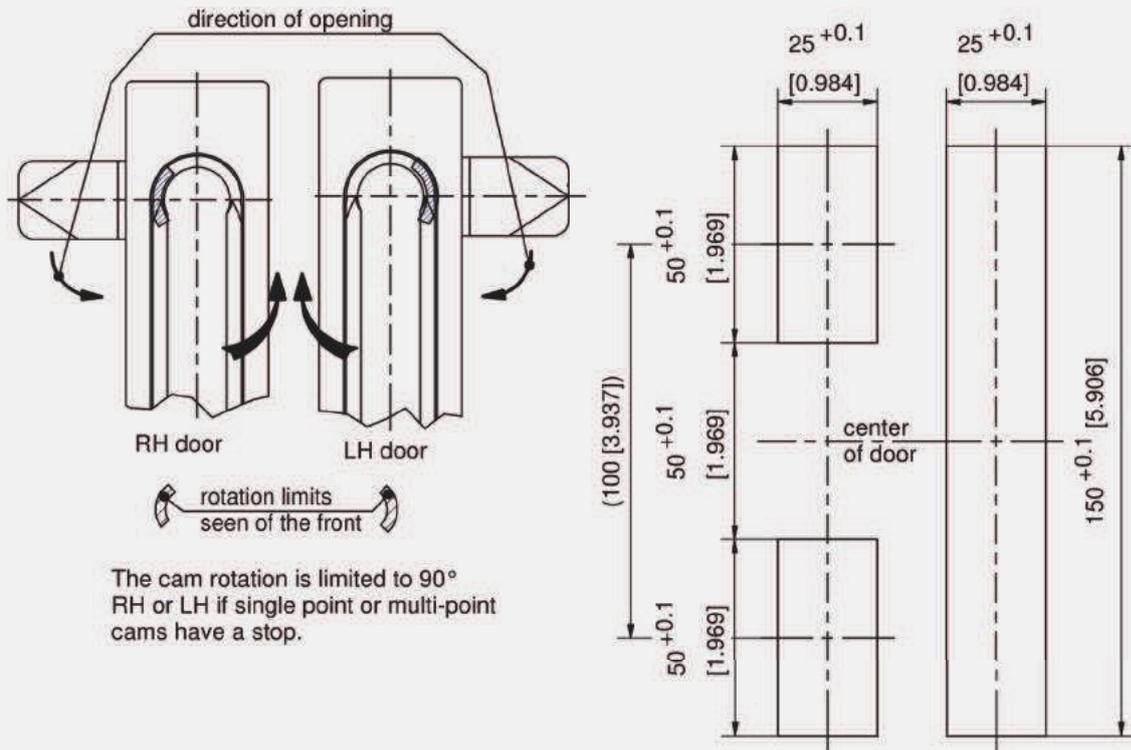
Swinghandle: zinc die, black
Dish: PA6, black

Note

H-dimension of cam ≥ 16 mm (0.630inch).

1. = Guide Swinghandle with pre-assembled cam through cutout
2. = Put lower hook into position and snap upper part into final position
3. = Final position fully snapped
4. = Rotating bottom





Formula for rods with eye and rollers:
cutout in the door center (rod length varies)

$$L = \frac{\text{clearance} - 12\text{mm}[0.472]}{2 [0.079]} - 50 \text{ mm} [1.969]$$

upper rod

$$L = \frac{\text{clearance} - 12\text{mm}[0.472]}{2 [0.079]} + 50 \text{ mm} [1.969]$$

lower rod

cutout outside the door center (rod length equal)

$$L = \frac{\text{clearance} - 12\text{mm}[0.472]}{2[0.079]}$$

Swinghandle, handle zinc die, dish PA, black with cylinder barrel

	Part Number	Latching type	Installation type	Clamping range
a)	407-9606.00-00015	keyed alike DIRAK 1333	snap-in	1,2-1,7
a)	407-9606.00-00020	keyed alike DIRAK 1333	snap-in	1,7-2,2
*	292-0306.80-02530	Tool for uninstallation		

- 
- RC2**
- 
- 
- DIN 61373**
- IP 65**
- 
- RoHS WEEE**



Swinghandle zinc die, black for profile cylinder, RCII testet, 90° closing rotation. For metal and plastic enclosures.

Features

- RH / LH application.
- Protected against unauthorized access by a bolt.
- Spring loaded, leap up handle.
- For profile-cylinders with length of 40 and 45 mm.
- Cylinder cover magnetically secured.
- IP65 according to DIN EN 60529.
- Tested according to security class RCII (DIN EN 1630).
- Vibration-proof according to DIN EN 61373.

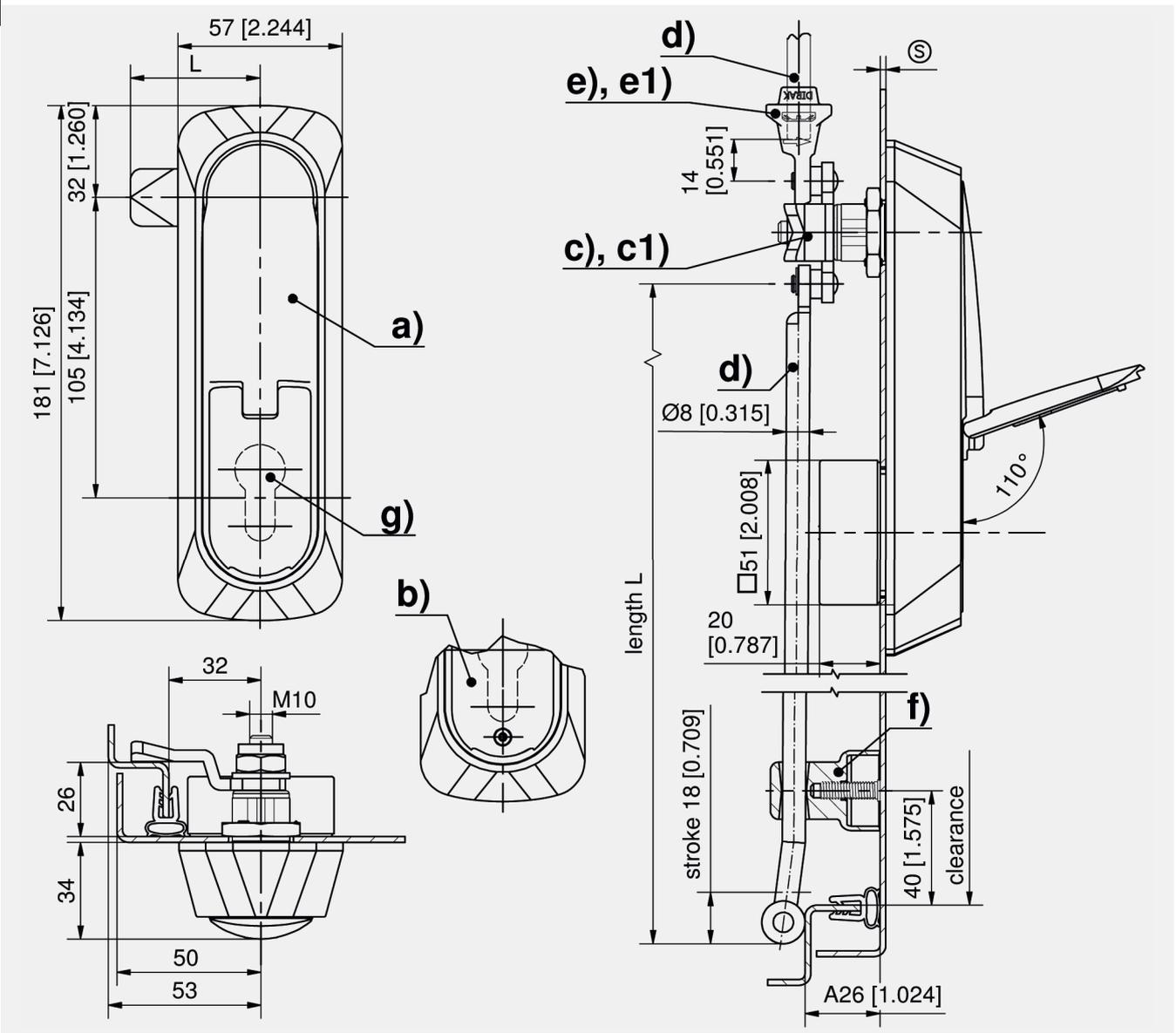
Material and surface

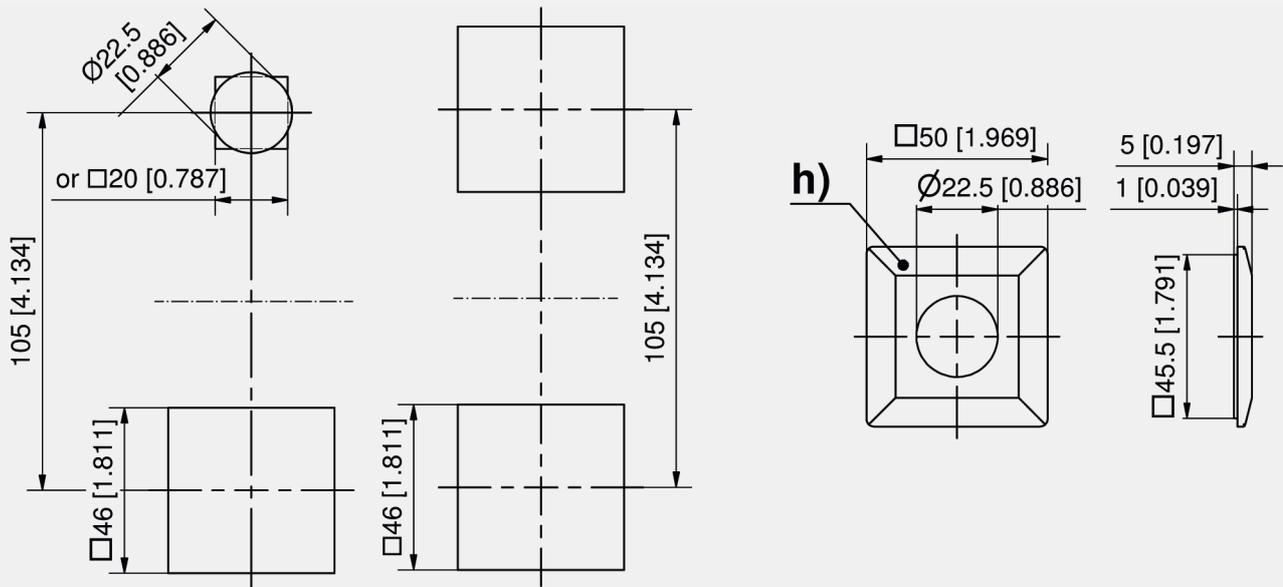
a) and b)
Swinghandle, dish, dust cover and cap: zinc die, black

Note

To use the same door both RH and LH, 2 holes $\square 46$, symmetrical to door center are possible.

(S) max. 8 mm.





Formula for rods with eye and rollers:
cutout in the door center (rod length varies)

$$L = \frac{\text{clearance} - 12\text{mm}[0.472]}{2 [0.079]} - 53 \text{ mm} [2.087]$$

upper rod

$$L = \frac{\text{clearance} - 12\text{mm}[0.472]}{2 [0.079]} + 53 \text{ mm} [2.087]$$

lower rod

cutout outside the door center (rod length equal)

$$L = \frac{\text{clearance} - 12\text{mm}[0.472]}{2[0.079]}$$

Swinghandle zinc die, black for PHZ, RC II testet

	Part Number	Latching type	Installation type	Cylinder cover	Internal cover
a)	207-9130.00-00000	PHZ 40/45 mm	screw-on	zinc die	□46
b)	207-9131.00-00000	PHZ 40/45 mm	screw-on	zinc die screwable	□46

	Function extension	Part Number
+	Adapter for cutout 46 mm square	602-0016.35-00000
	Gasket for adapter	207-2803.00-00000



Dual cylinder swinghandle with pivotable operating lever. Fully insulated for installation in plastic cabinets.

Features

- Two profile cylinders with lengths of 40 and / or 45 mm, allow opening by each cylinder without unlocking the other one.
- Latch bolt securely locked against unauthorized opening.
- IP65 according to DIN EN 60529.
- a) Latch bolt with chamfer. Closing is possible if key is removed.
- b) Latch bolt with detent. Detent requires turning the key.

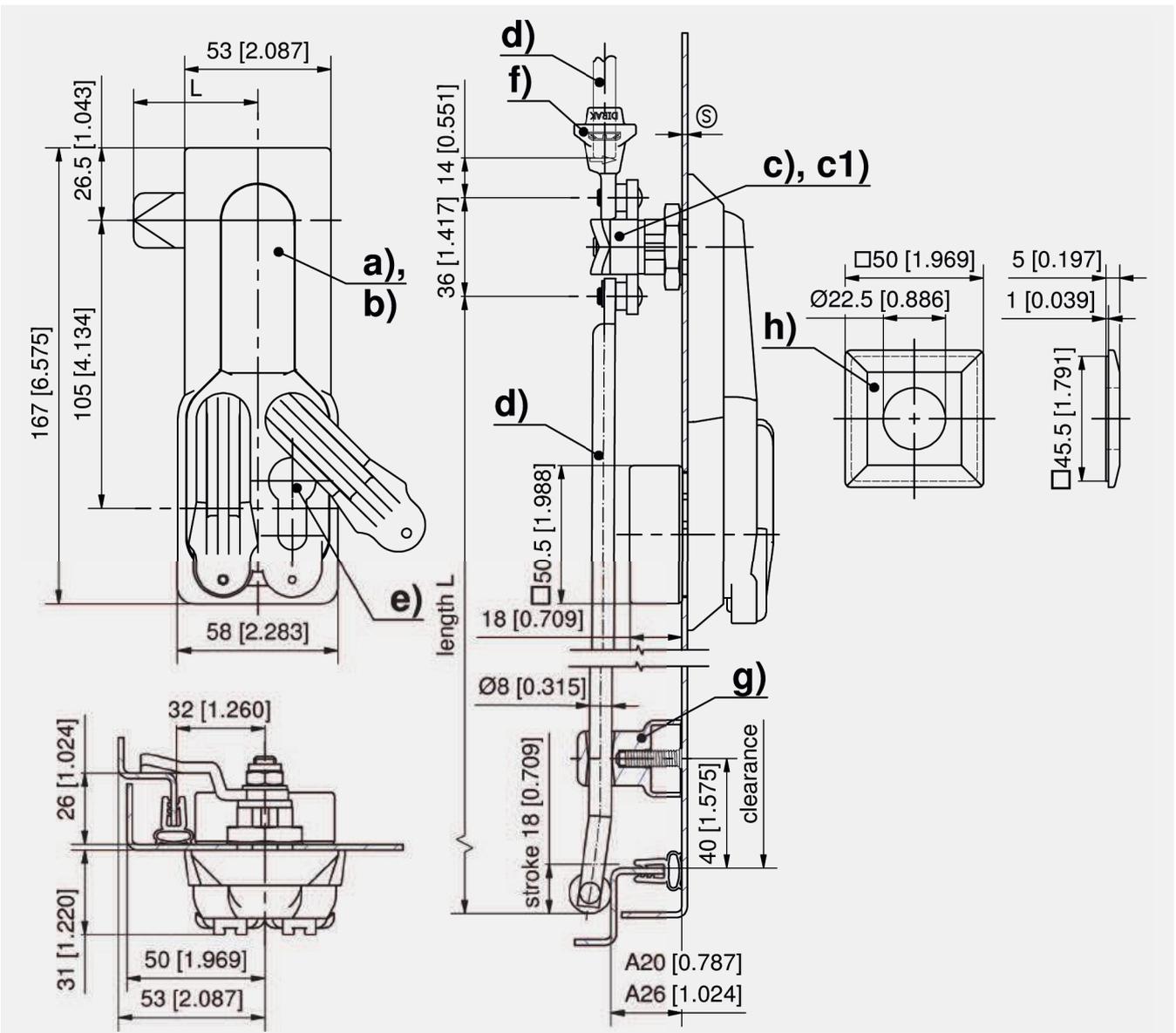
Material and surface

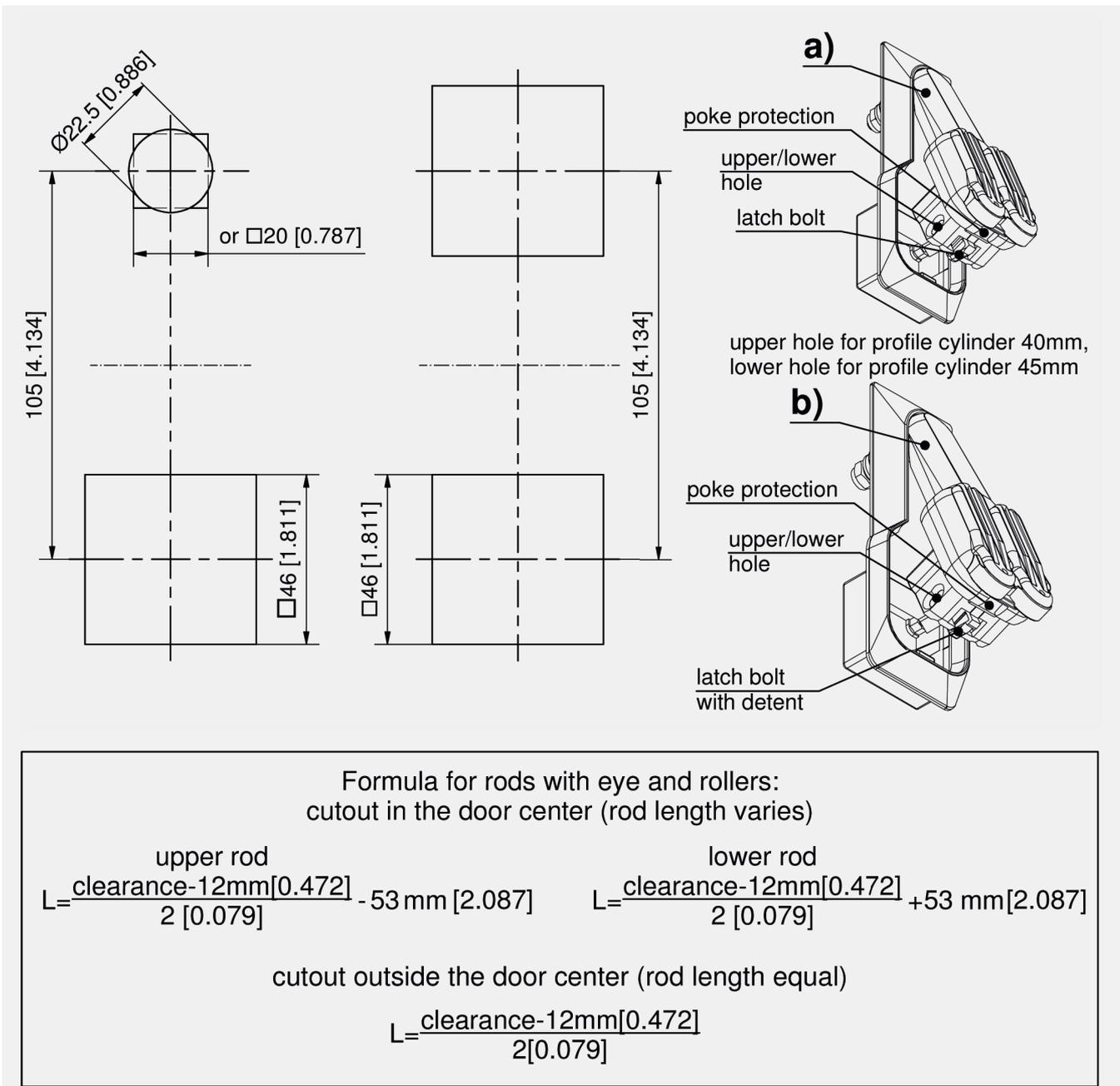
a) and, b)
Swinghandle and dish: PA, black

Note

Upgrading with steel insert (saw protection) possible.
To use the same door both RH and LH, 2 holes $\square 46$, symmetrical to door center are possible.

(S) = max. 3 mm





Dual cylinder swinghandle

	Part Number	Latching type	Cylinder cover	Sealable	Internal cover	Version
a)	207-9617.00-00000	PHZ 40/45 mm	PA, reinforced	Yes	□46	Latch bolt without detent
b)	207-9618.00-00000	PHZ 40/45 mm	PA, reinforced	Yes	□46	Latch bolt with detent

✱	204-0301.00-00000	Building Key PC
---	-------------------	-----------------

+	Function extension	Part Number
	Gasket for adapter	207-2803.00-00000
	Adapter for cutout 46 mm square	207-2702.03-00000



Dual cylinder swinghandle with pivotable operating lever. Fully insulated for installation in plastic cabinets.

Features

- Two profile cylinders with lengths of 40 and / or 45 mm, allow opening by each cylinder without unlocking the other one.
- Latch bolt securely locked against unauthorized opening.
- IP65 according to DIN EN 60529.
- a) Latch bolt with chamfer. Closing is possible if key is removed.
- b) Latch bolt with detent. Detent requires turning the key.

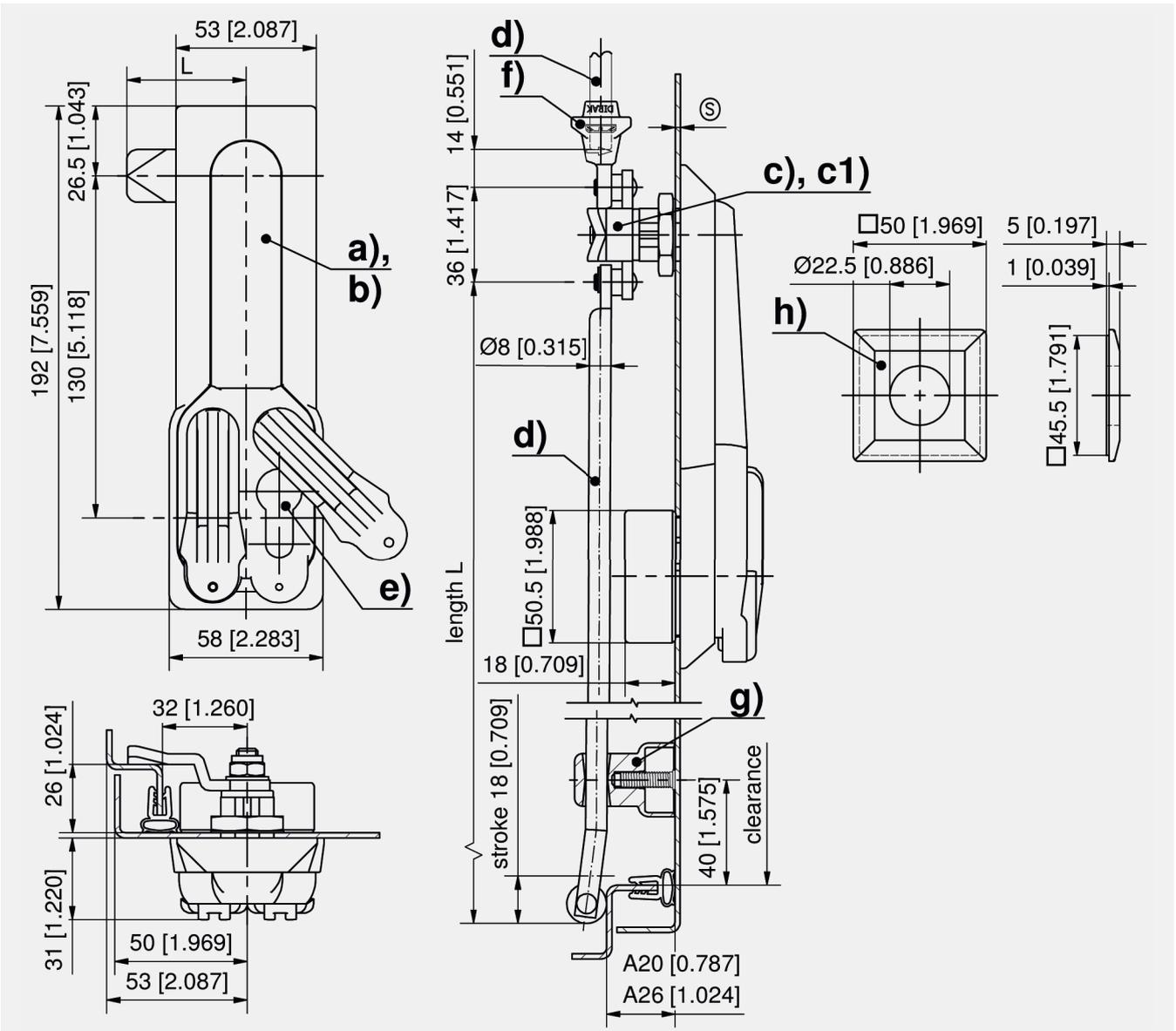
Material and surface

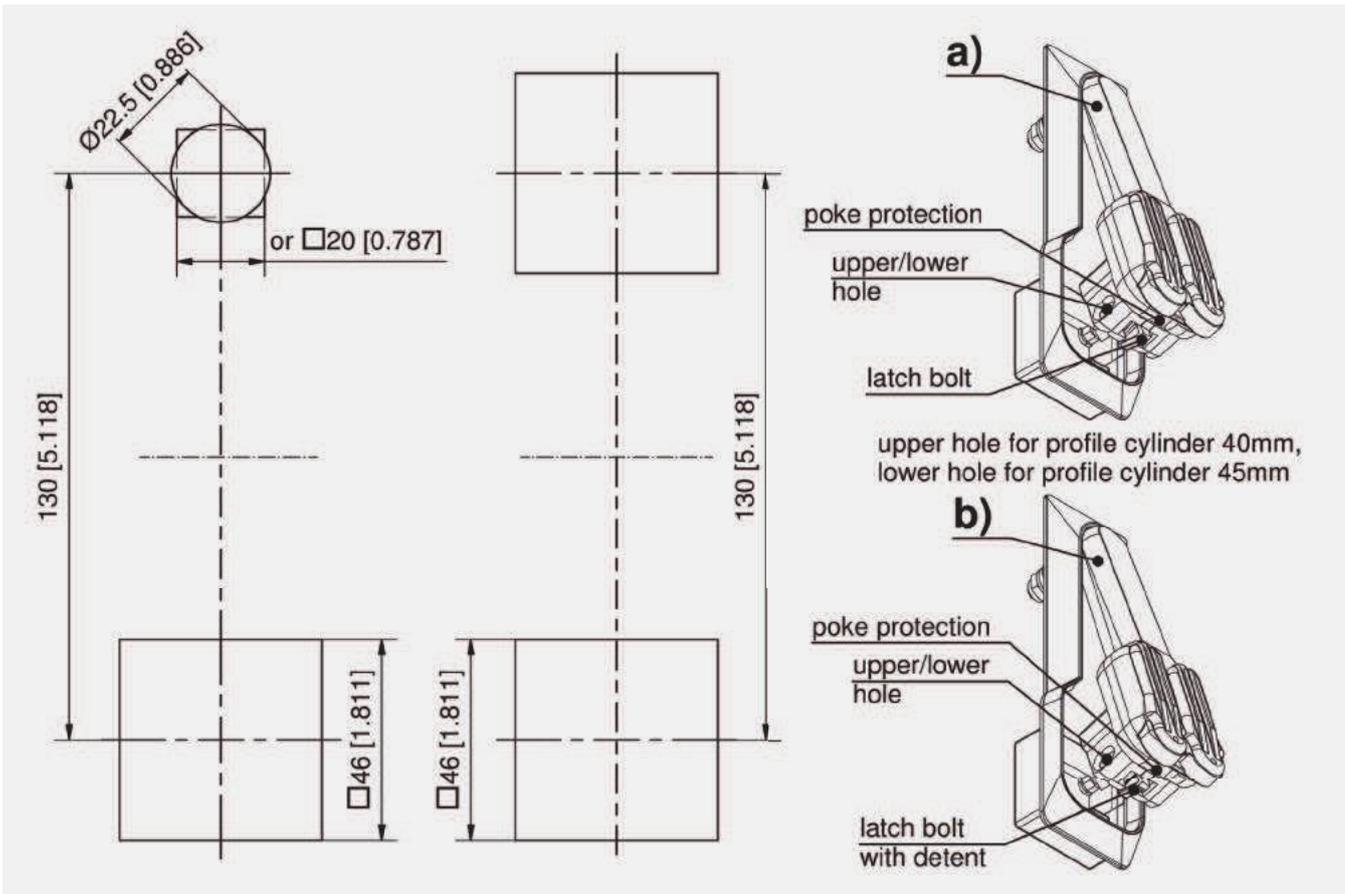
a) and, b)
Swinghandle and dish: PA, black

Note

Upgrading with steel insert (saw protection) possible.
To use the same door both RH and LH, 2 holes □46, symmetrical to door center are possible.

(S) = max. 3 mm





Formula for rods with eye and rollers:
cutout in the door center (rod length varies)

$L = \frac{\text{clearance} - 12\text{mm}[0.472]}{2 [0.079]} - 65 \text{ mm} [2.559]$

 $L = \frac{\text{clearance} - 12\text{mm}[0.472]}{2 [0.079]} + 65 \text{ mm} [2.559]$

cutout outside the door center (rod length equal)

$L = \frac{\text{clearance} - 12\text{mm}[0.472]}{2[0.079]}$

Dual cylinder swinghandle

	Part Number	Latching type	Cylinder cover	Sealable	Internal cover	Version
a)	207-9417.00-00000	Profile-Cylinder	PA, reinforced	Yes	□46	Latch bolt without detent
b)	207-9418.00-00000	Profile-Cylinder	PA, reinforced	Yes	□46	Latch bolt with detent
*	204-0301.00-00000	Building Key PC				

	Function extension	Part Number
+	Adapter for cutout 46 mm square	207-2702.03-00000
	Gasket for adapter	207-2803.00-00000

SNAP

RoHS
WEEE



Features

- This catch was developed for tool-less adjustment of all standard cams and is suitable for M10 square threaded rods.
- Manually adjustable.
- Variable and easy adjustment with stop washer.
- Adjustment track per click 0.25 mm.
- Vibration-proof.
- Readjustment possible at any time (e.g. compressed sealing).
- For cams with and without stop.

Material and surface

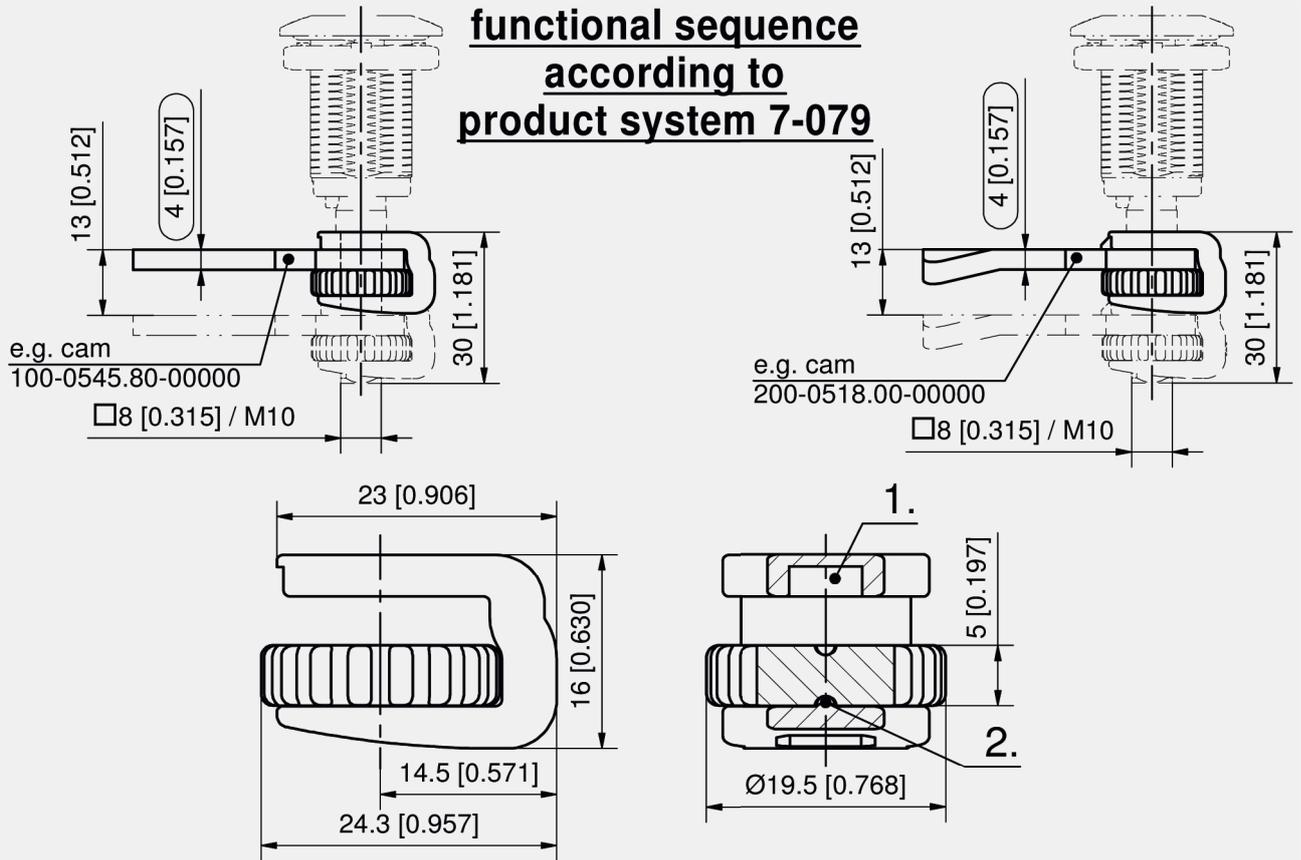
Catch: PA, black

Stop Washer: zinc die, zinc plated

Note

1. = Recess for cams with stop
2. = Detent (6x)

functional sequence according to product system 7-079



Accessories Cams

Part Number	Surface	Material stop washer
248-9901.00-00000	zinc plated	zinc die

Grounding clip for rod latch system and bearing plate.

Features

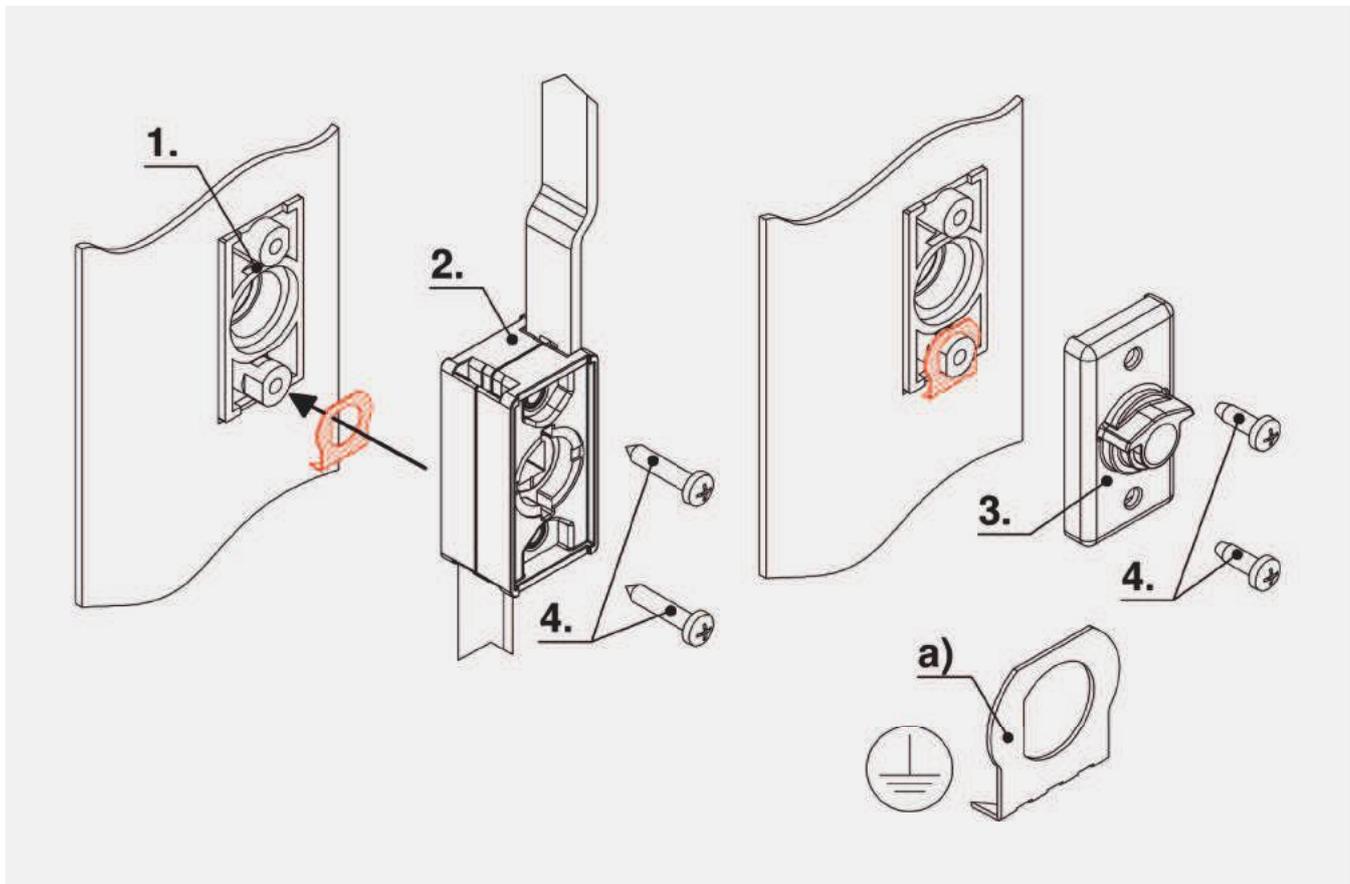
- Tested by the VDE testing and certification Institute in Offenbach.
- Passed all tests according to DIN (VDE 0100 part 540): 2012-06 as well as DIN EN 61439-1 (VDE 0660 part 600): 2012-06 section 8.4.3.2.2 and 10.5.2.
- Anodised and powder coated (epoxy and polyester) panels were tested with a thickness of up to 240µm.

Material and surface

Grounding clip: stainless steel AISI 301

Note

- 1. = Back of the latching devices
- 2. = Flat rod latch
- 3. = Bearing, Cam / 3-point cam
- 4. = Clamping torque 2 Nm



Grounding

	Part Number	Type	Grounding
a)	208-1206.93-00000	Grounding clip	Yes

- A**
- R** **L**
- RoHS**
WEEE
- B**
- C**
-
- IP**
65



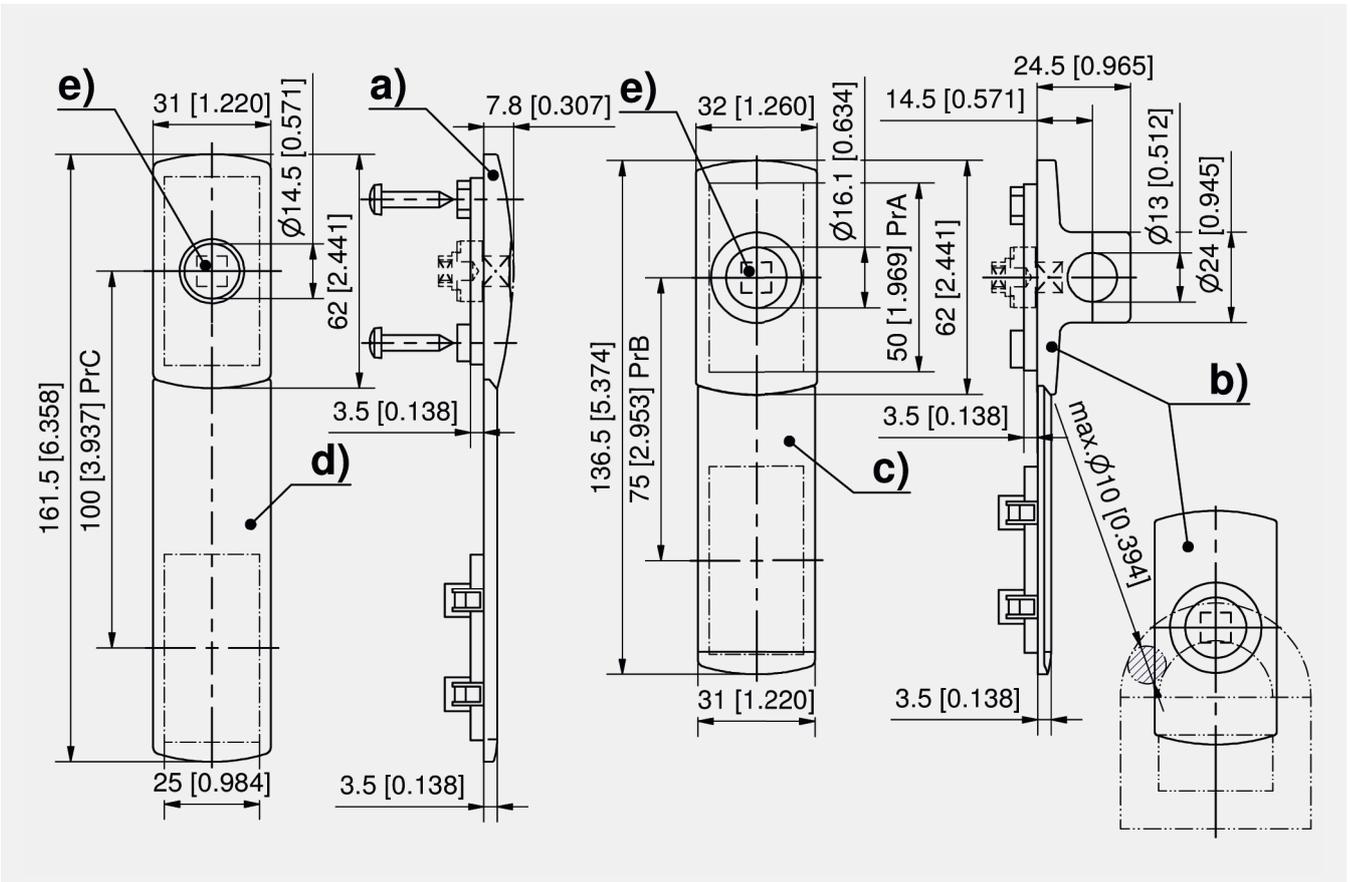
Polyamide - insert version. Zinc die cast - insert and padlock version.

Features

- Compatible with the rod latch system with installation cutout A, B and C.
- By using the extension pieces the escutcheon PrA can also be used for installation cutouts PrB and PrC.
- IP65 according to DIN EN 60529.
- The escutcheon is secured into the cutout with the rod latch.
- b) Maximum diameter of the shackle - Ø 10 mm/0.394inch.

Material and surface

- a) **Escutcheon:** PA, black
- b) **Escutcheon for padlock:** zinc die, black



Escutcheon

	Part Number	Type	Material	Surface	Fastening
a)	208-9305.00-00000	Escutcheon	PA	black	screw-on
b)	208-9312.00-00000	Escutcheon for padlock	zinc die	black	screw-on

*	208-0523.03-00000	Extension, short
	208-0522.03-00000	Extension, long
	208-1804.00-00000	Sealing kit for escutcheon

+	Function extension	Part Number
	Grounding Clip	3-011

Features

- Cutout-cover c) PrA for doors / double doors with same cutout.
- Extensions a) and b) for cutout PrB and PrC.
- For sheet thicknesses from 1.5 to 3 mm.
- IP54 according to DIN EN 60529 by: O-Ring 208-1804.
- Tool-less installation.

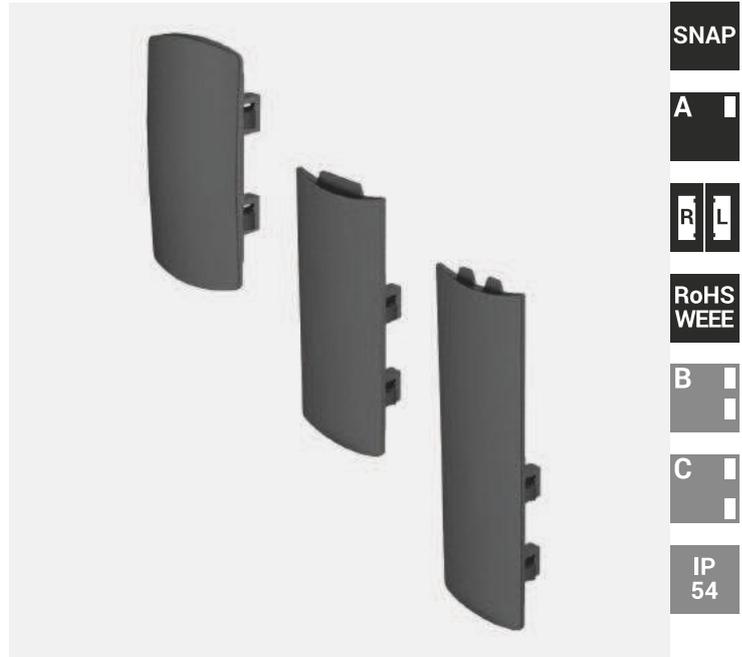
Material and surface

Cutout-cover and escutcheon: PA, black

O-ring: NBR, black

Note

1. = Sealing kit



SNAP

A

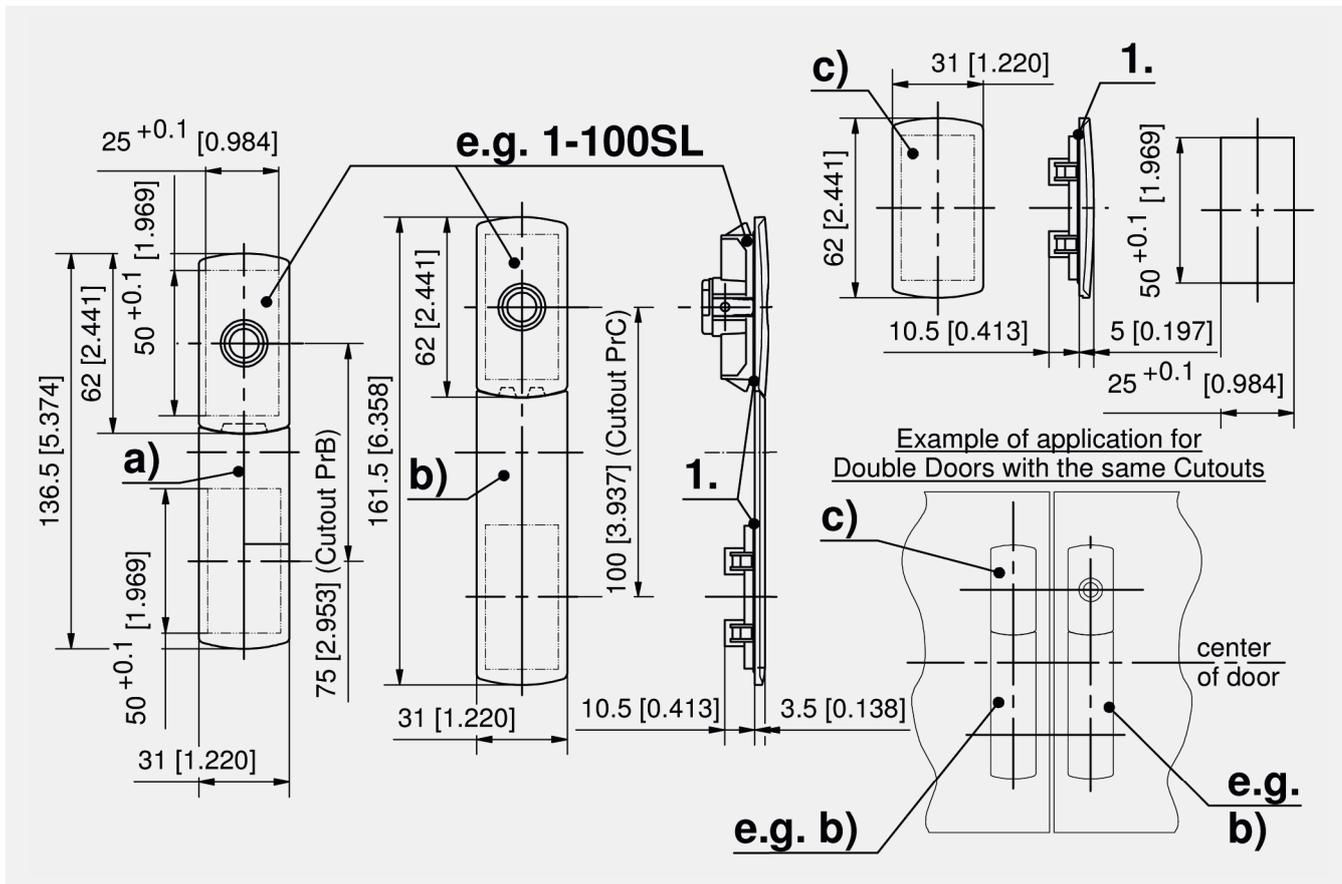
R L

RoHS WEEE

B

C

IP 54



Cutout-cover

	Part Number	Type	Material	Surface	Fastening
b)	208-0522.03-00000	Extension, long	PA	black	tool-less
a)	208-0523.03-00000	Extension, short	PA	black	tool-less
c)	208-0526.52-00000	Cutout-cover	PA	black	tool-less

	Function extension	Part Number
	Sealing kit for escutcheon	208-1804.00-00000

base

SNAP

C

R L

UL

RoHS WEEE



IP 65



Features

- Tool-less assembly.
- Tool-less installation, self-locking (clip-in) in sheet metal with thickness of 1.5 or 2.0 mm.
- Independent of panel thickness up to 4 mm.
- Closing with slam latch.
- Handle with lifting spring.
- Tool-less replacement of the cylinder cover.
- RH / LH application.
- IP65 according to DIN EN 60529 by optional sealing kit 307-9153.00-00000.

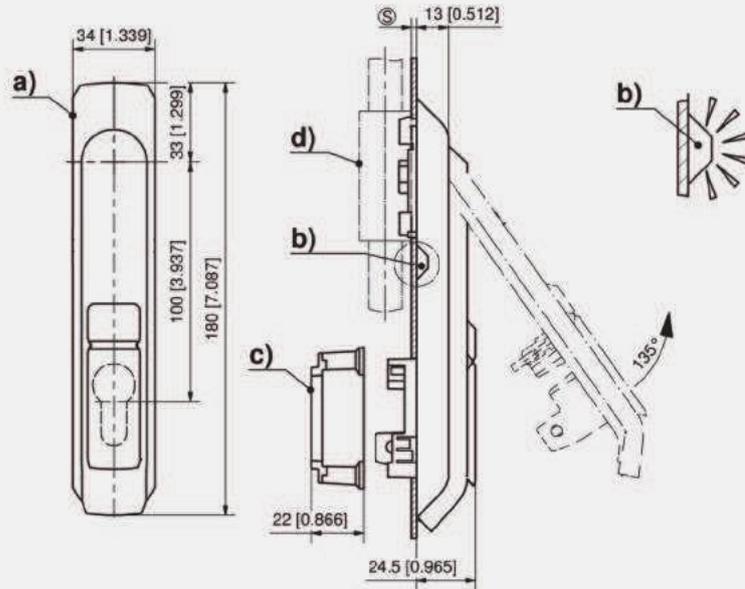
Material and surface

- Handle, Dish, cap:** PA, black
- Cylinder dustcover:** PA, black
- Shaft, slam lock:** Grivory
- Spring:** steel
- O-ring:** NBR

Note

b) LED module retrofittable.

For profile-cylinder with closing position 6 o'clock



Swinghandle PA, black for profile-cylinder

	Part Number	Latching type	Installation type	Cylinder cover
a)	307-9101.00-00000	PHZ 40 mm	tool-less	PA, black

Swinghandle PA, black, slam latch

	Part Number	Latching type	Installation type	Cylinder cover
a)	307-9103.00-00000	slam latch	tool-less	PA, black

*	307-9154.00-00000	Square adapter for connection to PS 3-130, 3-170 and 3-132.02		
	307-9151.00-00000	LED Module for version profile-cylinder		
	307-9152.00-00000	LED Module for version slam latch		
	211-9001.00-00000	Profile-cylinder, keyed different		
	211-9002.00-00000	Profile-cylinder, keyed alike		

	Function extension	Part Number
+	Sealing kit+Cap	307-9153.00-00000

LED module visualises the locking position and regular red flashing indicates open position.

Features

- Tool-less assembly.
- Tool-less installation, self-locking (clip-in) in sheet metal with thickness of 1.5 or 2.0 mm.
- Independent of panel thickness up to 4 mm.
- Closing with slam latch.
- Handle with lifting spring.
- Tool-less replacement of the cylinder cover.
- RH/ LH application.
- IP65 according to DIN EN 60529 by optional sealing kit 307-9153.00-00000.

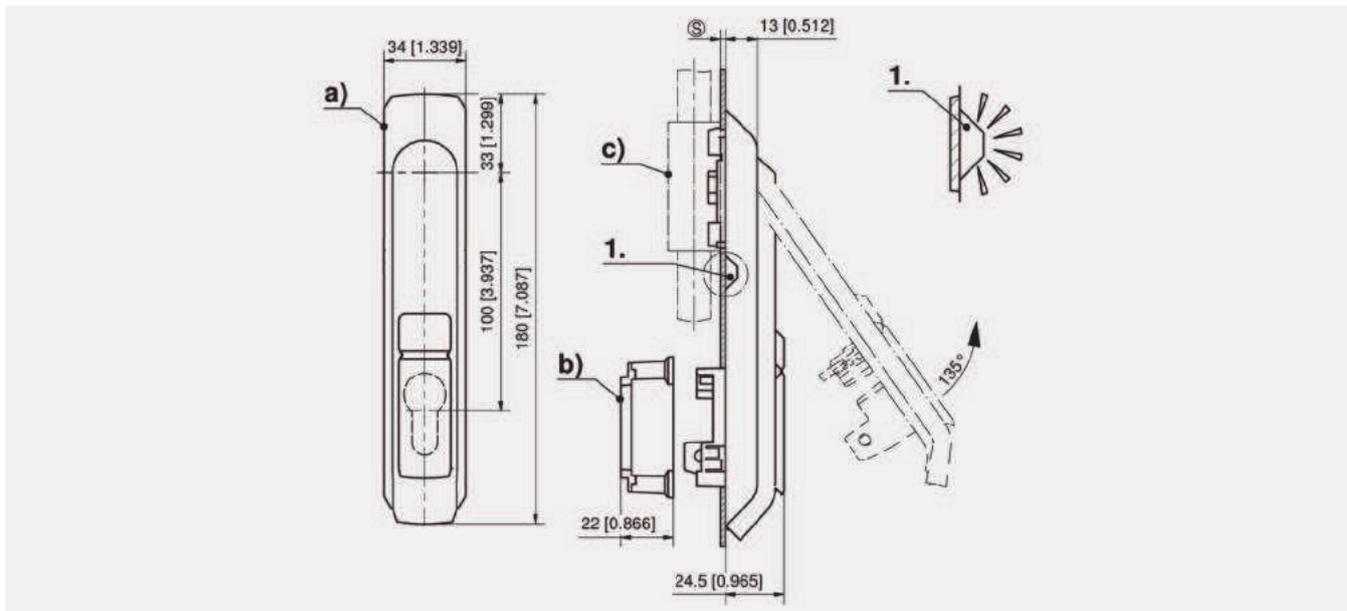
Material and surface

- Handle, dish, cap:** PA, black
- Cylinder dustcover:** PA, black
- Shaft, slam lock:** Grivory
- LED carrier plate:** PMMA
- Spring:** steel
- O-ring:** NBR

Note

For profile-cylinder with closing position 6 o'clock.

- 1. = Flashing LED module.
Battery CR2032 3V **not** included.



Swinghandle PA, black, for profile-cylinder with LED module

	Part Number	Latching type	Installation type	Cylinder cover
a)	307-9105.00-00000	PHZ 40 mm	tool-less	PA, black

Swinghandle PA, black, slam latch with LED module

	Part Number	Latching type	Installation type	Cylinder cover
a)	307-9106.00-00000	slam latch	tool-less	PA, black

✳	307-9154.00-00000	Square adapter for connection to PS 3-130, 3-170 and 3-132.02		
	211-9001.00-00000	Profile-cylinder, keyed different		
	211-9002.00-00000	Profile-cylinder, keyed alike		

	Function extension	Part Number
+	Sealing kit+Cap	307-9153.00-00000



Rod Latch for installation within the sealed area, with compression.

Features

- Compression 4 mm.
- Single or multi-point latching by using of additional latching devices.
- The connecting rods between the latching devices can be fixed easily in clamps.
- For round rods Ø8 mm or flat rods 3 x 14 mm.
- Oblong hole allows tolerance compensation.
- RH and LH version.

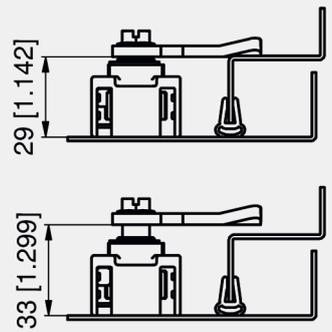
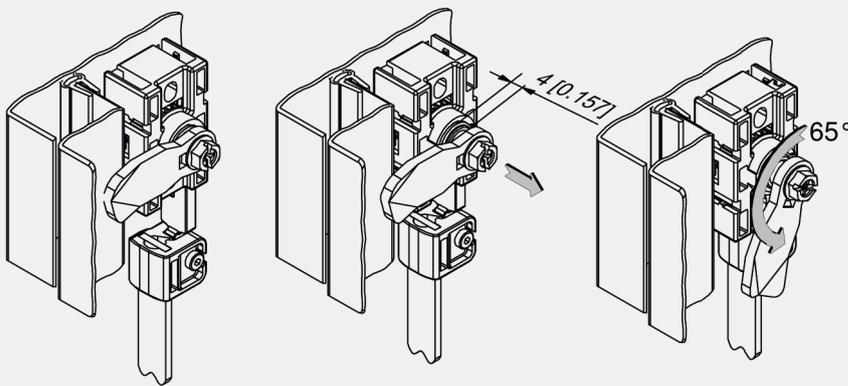
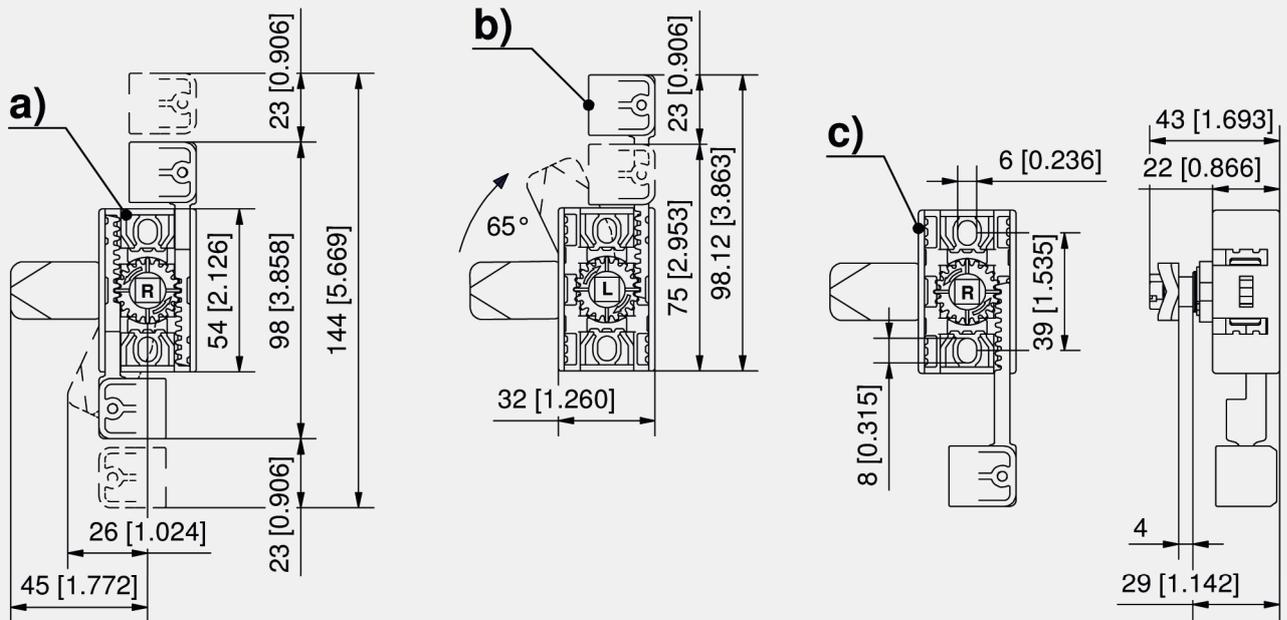
Material and surface

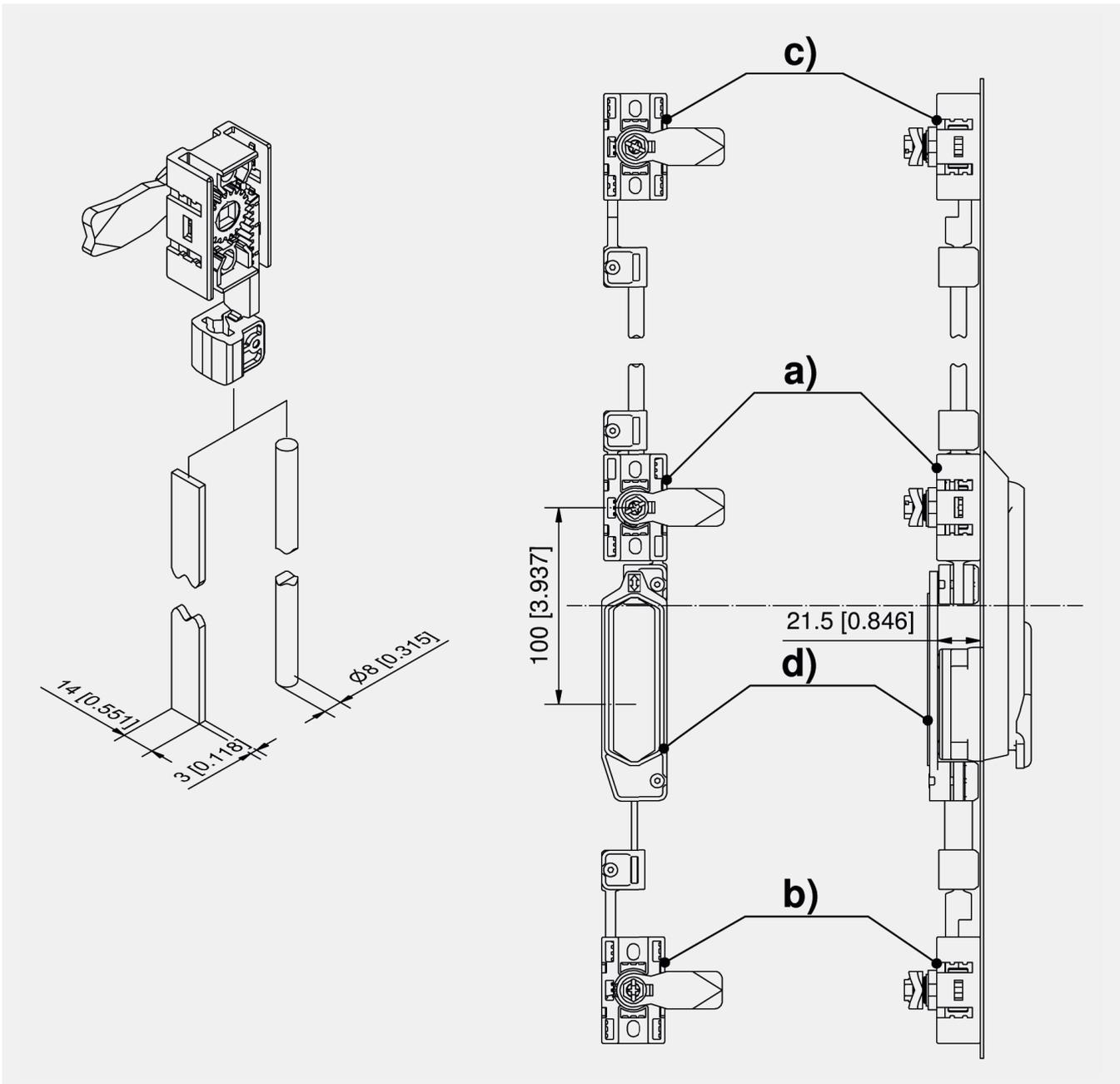
Housing, rods, clamps, pinion: zinc die

Note

Closing process:

1. A 90° turn of the Swinghandle brings the cam into the locked position.
2. With another 45° turn the cam is pressed by 4 mm against the clamping surface.





Compression Rod Latch, 2 rods

	Part Number	Version	Stroke	Installation type
a)	208-9076.00-00000	LH	23	screw-on
a)	208-9077.00-00000	RH	23	screw-on

Compression Rod Latch, 1 rod

	Part Number	Version	Stroke	Installation type
b)	208-9078.00-00000	LH	23	screw-on
c)	208-9079.00-00000	RH	23	screw-on

✱	3-201	Rod Latch Adapter for Compression Rod Latch
	3-209	Rods for Compression Rod Latch
	3-210	Swinghandle for Compression Rod Latch

	Function extension	Part Number
+	Grounding clip	208-1206.93-00000

RoHS
WEEE



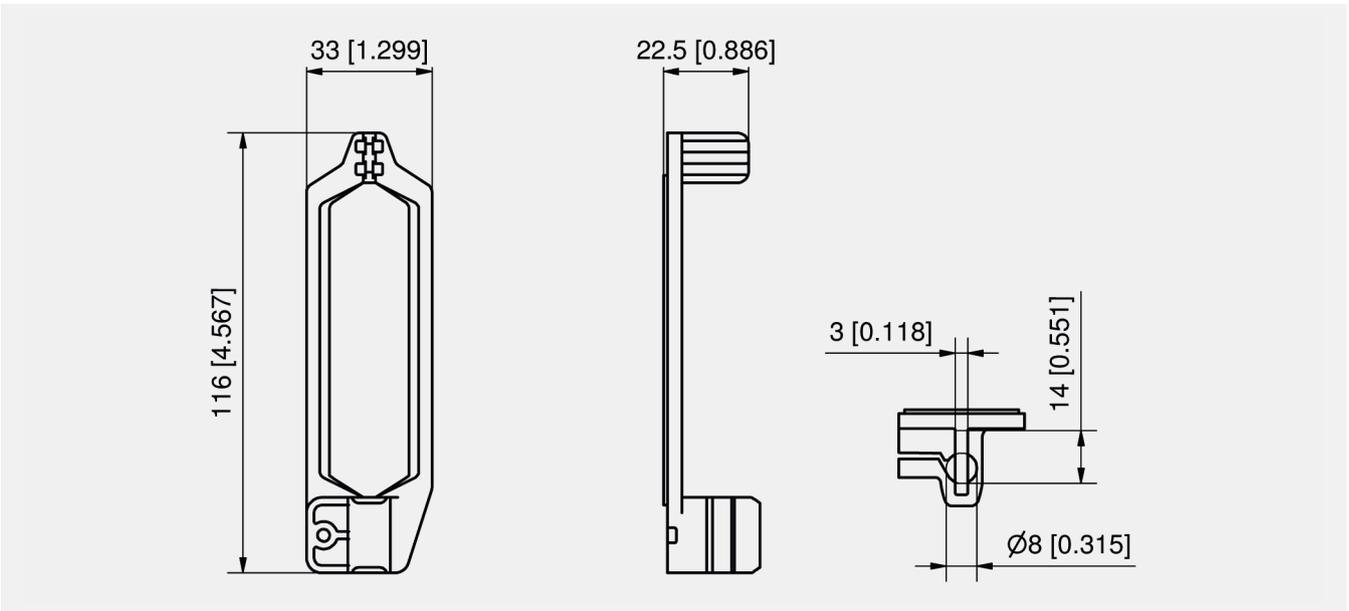
Features

- Rod latch adapter suitable for Compression Rod Latch see product system 3-200.

Material and surface

Rod latch adapter: zinc die, untreated

Screw: steel, zinc plated



Accessories for Compression Rod Latch

Part Number	Type	Version
308-9005.00-00000	Rod Latch adapter	RS / FS

Features

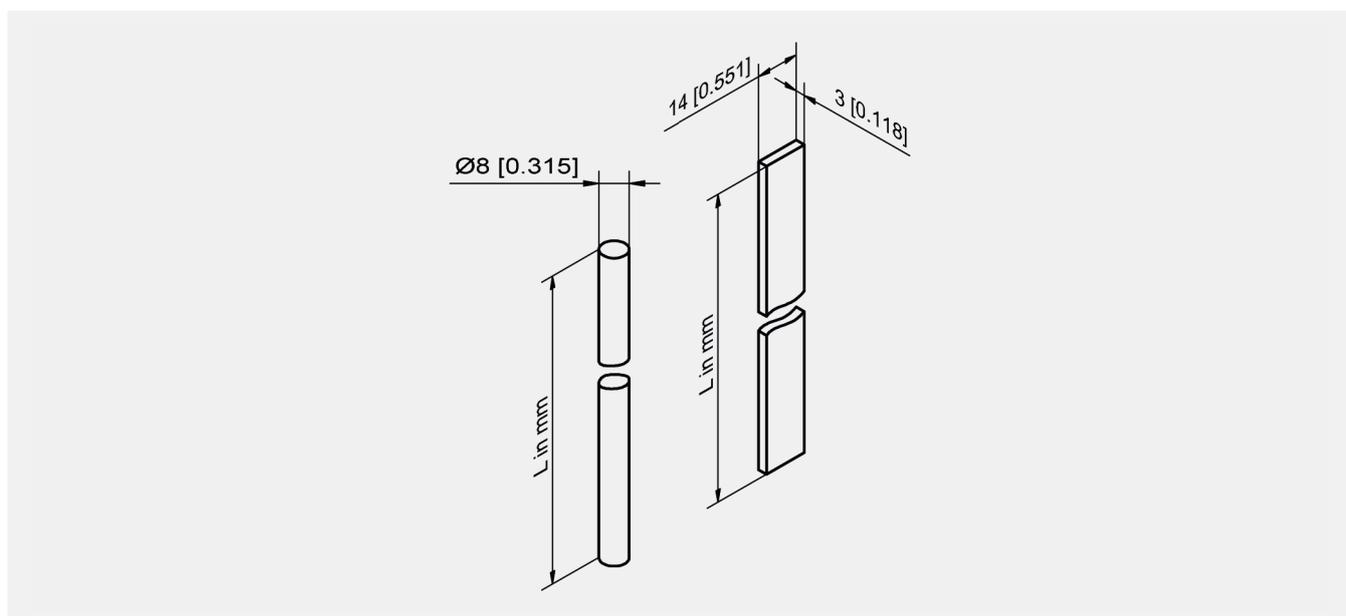
- Round and flat rods suitable for Compression Rod Latch see product system 3-200.

Material and surface

Round and flat rods: steel, zinc plated



RoHS
WEEE



Round rods for Compression Rod Latch

Part Number	Type	Rod diameter Ø	Length
201-0212.00-00293	Round rod	8	292.5 mm
201-0212.00-00493	Round rod	8	492.5 mm
201-0212.00-00593	Round rod	8	592.5 mm
201-0212.00-00693	Round rod	8	692.5 mm

Flat rods for Compression Rod Latch

Part Number	Type	Rods dimension WxH	Length
108-0916.15-00300	Flat rod	14 x 3 mm	300 mm
108-0916.15-00400	Flat rod	14 x 3 mm	400 mm
108-0916.15-00500	Flat rod	14 x 3 mm	500 mm
108-0916.15-00600	Flat rod	14 x 3 mm	600 mm
108-0916.15-00700	Flat rod	14 x 3 mm	700 mm



Swinghandle for Compression Rod Latch Product System 3-200.

Features

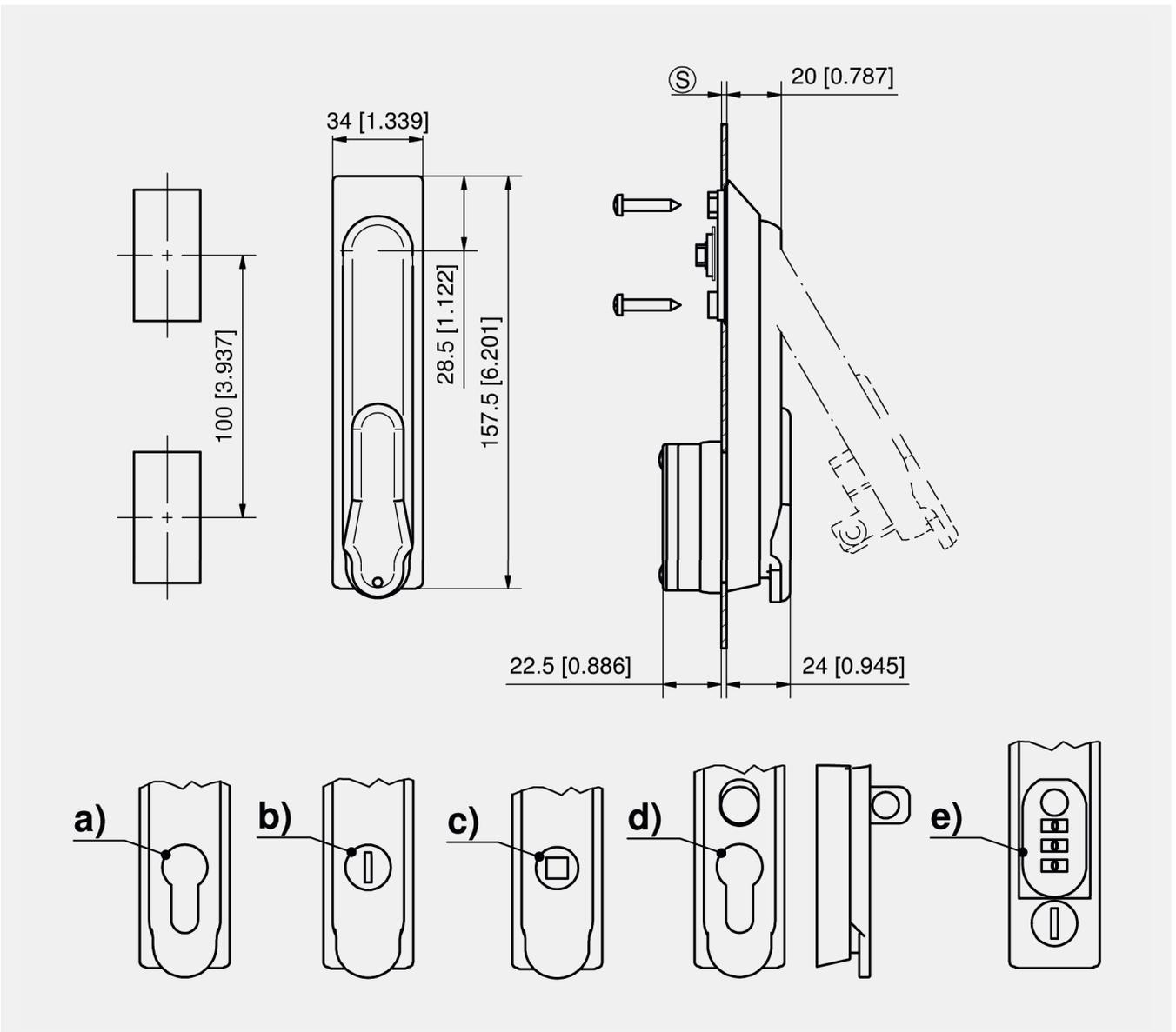
- Swinghandle for profile-cylinder to DIN 18252, with cylinder, for insert, with padlock eye or combination lock.
- Inserts must be ordered separately. Locking stub is included in handle assembly.
- Cutout 50 x 25 mm version PrC.
- IP65 according to DIN EN 60529.
- RH / LH application.

Material and surface

- Swinghandle, dish and cylinder dustcover:** zinc die, black or PA, black
- Shaft:** brass, untreated
- Cap:** PA, black
- O-ring and cap sealing:** NBR

Note

The Swinghandles listed under a), b), and c) can be retrofitted with a sliding cap see Product System 2-090.01.



Swinghandle for profile-cylinder

	Part Number	Latching type	Material handle	Material dish	Dish	Cylinder dustcover	Sealable	Installation type
a)	207-9201.00-10000	PHZ 40 mm	PA, black	PA, black	with Cap (IP65)			screw-on
a)	207-9202.00-10000	PHZ 40 mm	PA, black	PA, black	with Cap (IP65)	Yes	Yes	screw-on
a)	107-9209.00-10000	PHZ 40 mm	zinc die. black	zinc die. black	with Cap (IP65)	Yes	Yes	screw-on

Swinghandle with cylinder barrel

	Part Number	Latching type	Material handle	Material dish	Dish	Installation type
b)	207-9262.00-10000	keyed alike DIRAK 1333	PA, black	PA, black	with Cap (IP65)	screw-on

Swinghandle for insert

	Part Number	Latching type	Material handle	Material dish	Dish	Installation type
c)	207-9271.00-10000	Insert	PA, black	PA, black	with Cap (IP65)	screw-on

Swinghandle for profile-cylinder with padlock eye

	Part Number	Latching type	Padlock eye	Material handle	Material dish	Dish	Installation type
d)	207-9208.00-10000	PHZ 40 mm	yes	zinc die. black	PA, black	with Cap (IP65)	screw-on

Swinghandle with combination lock and cylinder

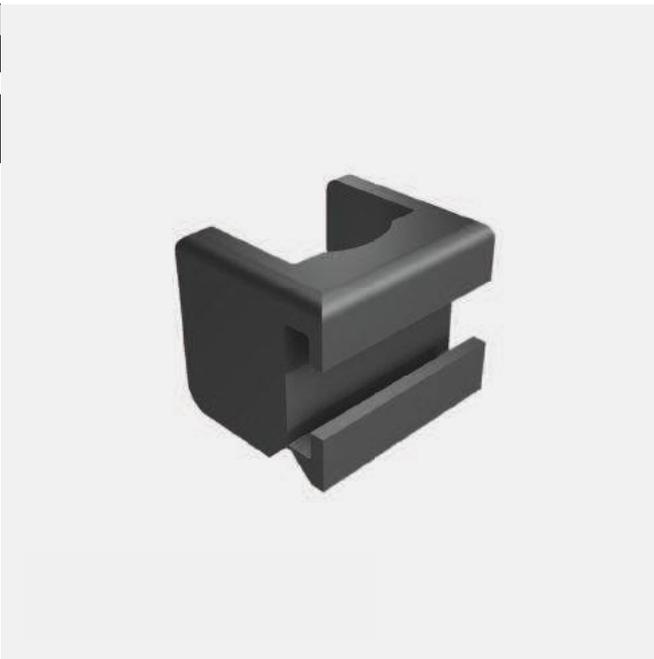
	Part Number	Latching type	Material handle	Material dish	Dish	Installation type
e)	107-9274.00-10000	keyed alike DIRAK 1333	PA, black	PA, black	with Cap (IP65)	screw-on

	3-209	Rods for Compression Rod Latch						
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	Assembly options	Part Number
	Assembling of inserts / profile-cylinder	207-0016.00-00000



RoHS
WEEE

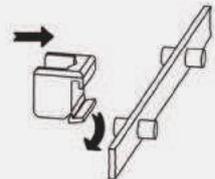
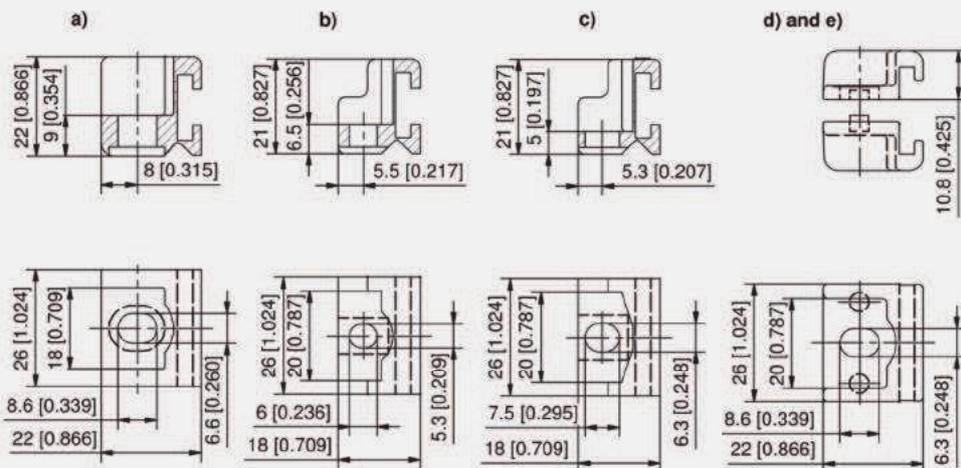


Features

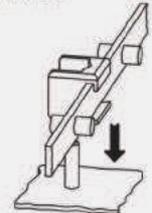
- For flat rods 12 x 3 mm.
- a, b and c): Rod guide with living hinge for pre-assembly onto the flat rod.
- b and c): Rod guide also for OFFSET-DUO SYSTEM see product system 3-310.
- d and e): Rod guide two halves.

Material and surface

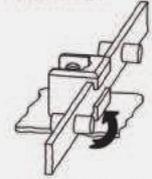
- Flat rod guide:**
- a, b and c): PA, black
 - d): stainless steel AISI 316
 - e): zinc die, black



1. Open the rod guide's living hinge downwards and position over the flat rod.



2. Assemble the flat rod guide onto the weld stud.



3. By tightening the nut the living hinge automatically and securely attaches the flat rod.

Rod guide

	Part Number	Fastening	Material
a)	208-1501.03-00000	M6	PA
b)	208-1509.03-00000	M5	PA
c)	208-1517.03-00000	M6	PA
d)	208-9790.00-00000	M6	stainless steel
e)	208-9791.00-00000	M6	zinc die

Dual Hook for flat rods with dual rollers.

Features

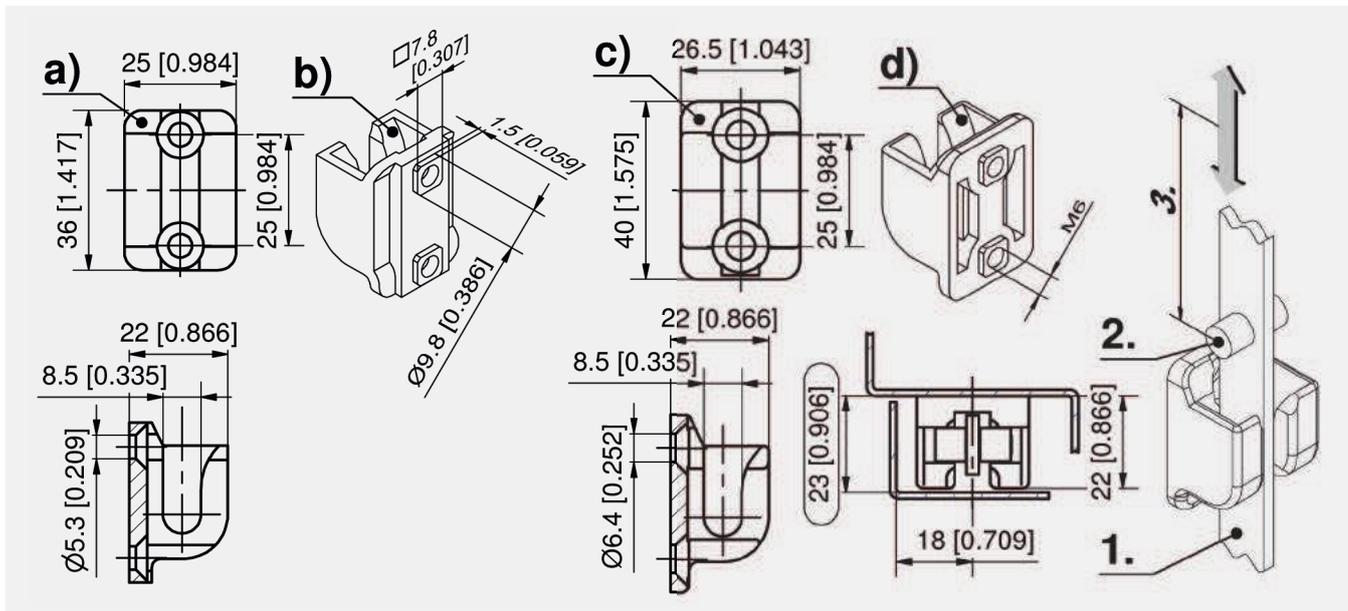
- a) and c) Water- and dust-tight according to IP65 DIN EN 60529 with flat external seal 208-1803.

Material and surface

- a), b) **Dual hook:** PA, black
- c), d) **Dual hook:** zinc die, zinc plated

Note

- 1. = Flat rod
- 2. = Dual rollers
- 3. = Stroke 24 mm



Dual hook

	Part Number	Material	Installation type	Version
a)	208-1446.50-00000	PA	screw-on	with countersunk for M5
b)	208-1447.50-00000	PA	screw-on	with threaded stubs for M5
d)	208-1401.00-00000	zinc die	screw-on	with thread and threaded stubs for M6
c)	208-1402.00-00000	zinc die	screw-on	with countersunk for M6

✱	6-041	Countersunk screws and Hexagon nuts
	6-040	

	Function extension	Part Number
+	Flat external seal	208-1803.00-00000



Features

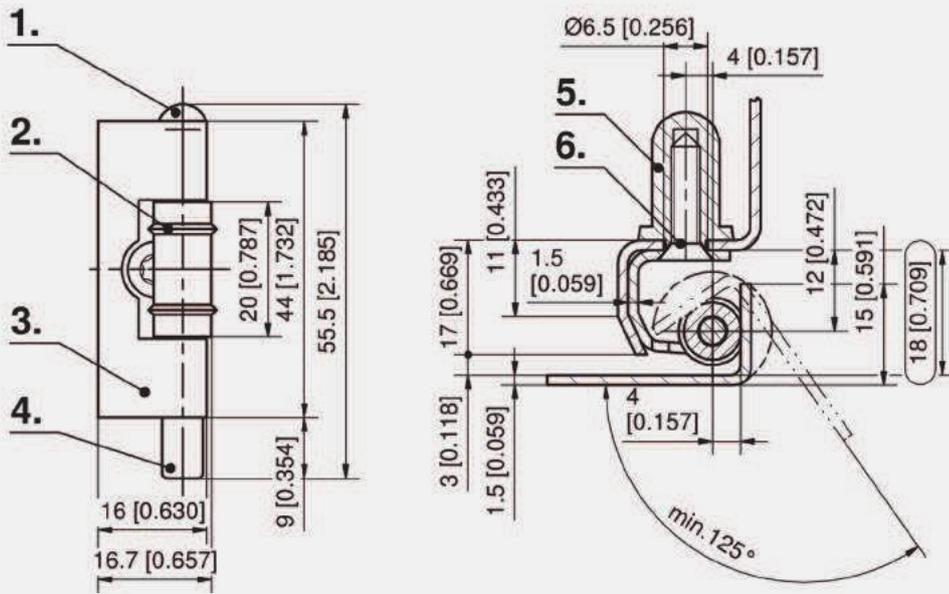
- For surface mounted doors.
- Hinge concealed.
- Door bending variable 16–18 mm
- RH / LH application.
- 125° Opening angle.
- Hinge pin secured by busing.
- Fitting hardware included.

Material and surface

- Frame-part and hinge pin:** steel, zinc plated
- Weld-on roll:** steel, untreated
- Fitting block:** PA, black
- Securing bushing:** PE-LD black
- Self-tapping screw:** stainless steel

Note

- 1 = Hinge Pin
- 2 = Weld-on roll
- 3 = Frame-part
- 4 = Securing bushing
- 5 = Fitting block PA
- 6 = Self-tapping screw



Concealed Hinge

Part Number	Version	Material Pin	Installation type
216-9035.00-00000	Screw T-20 ISO 14586 Form C 4.2 x 19 mm	steel, zinc plated	screw- / weld-on
216-9015.00-00000	Screw Philips DIN 7982 ISO 7050 4.2 x 19 mm	steel, zinc plated	screw- / weld-on

Features

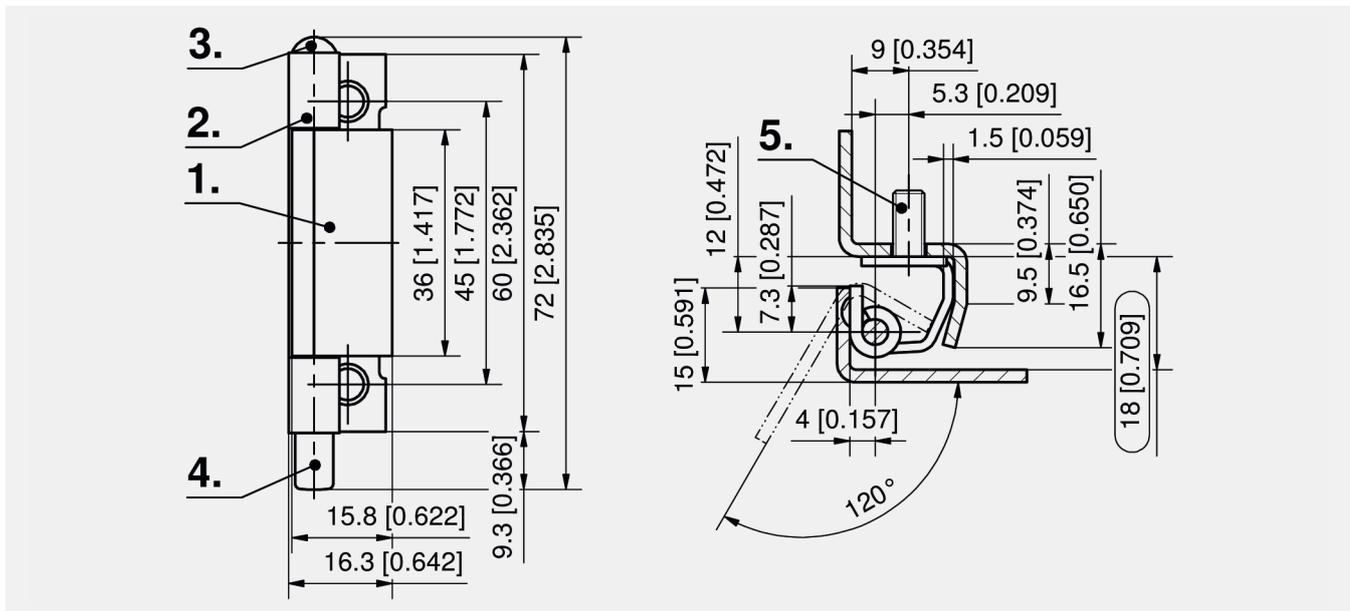
- For surface mounted doors.
- Hinge concealed.
- Bending 18 mm.
- RH / LH application.
- 120° Opening angle.
- Hinge pin secured by bushing.
- Frame-part with force fitted stud M5 x 12.
- Door-part weld on with prepared welding spots

Material and surface

- Frame-part:** steel, zinc plated
- Door-part:** steel untreated
- Pin:** stainless steel
- Securing bushing:** PE-LD black

Note

1. = Frame-part
2. = Door-part
3. = Hinge pin
4. = Securing bushing
5. = Threaded Stud M5 x 12



Concealed Hinge

Part Number	Material Pin	Installation type
216-9032.00-00000	stainless steel	screw- / weld-on

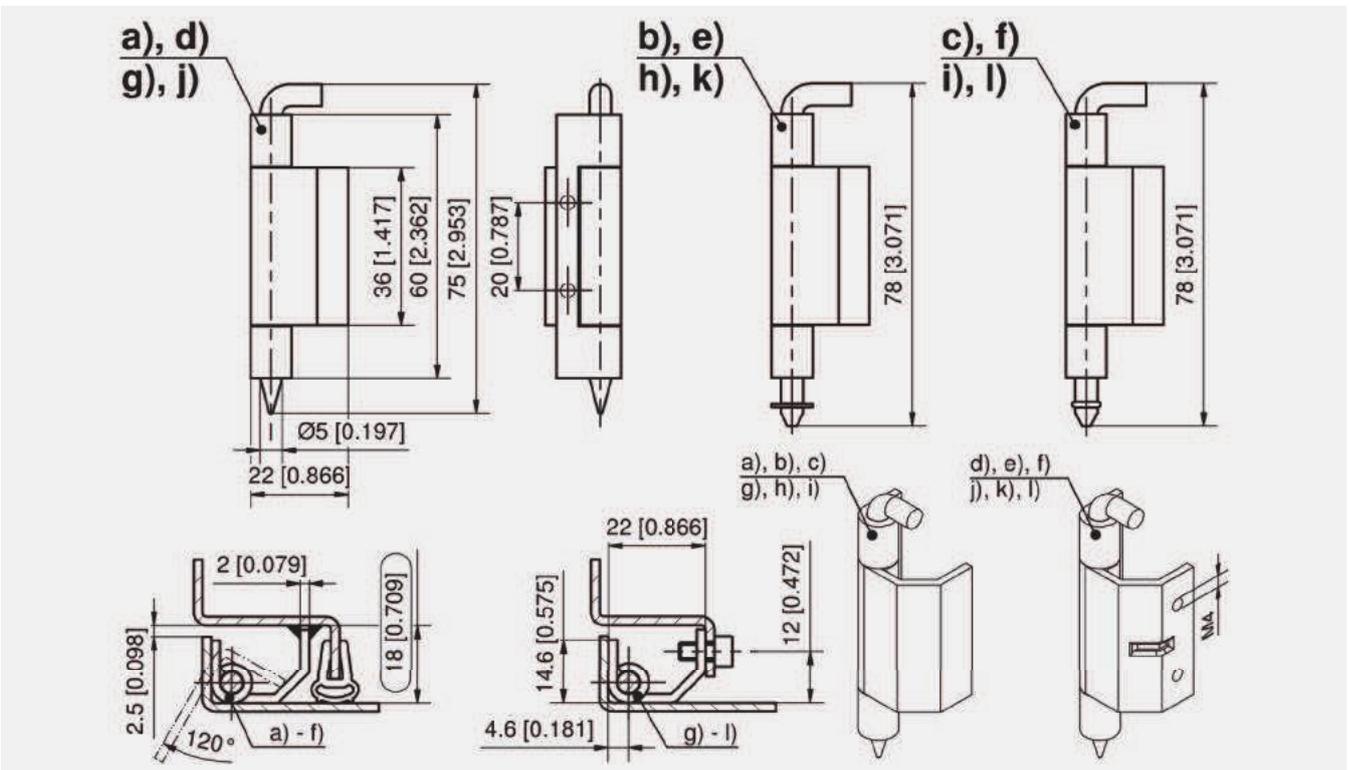


Features

- For surface mounted doors.
- Hinge concealed.
- Door bending 18 mm.
- RH / LH application.
- 120° Opening angle.
- Frame-part weld-on or screw-on.

Material and surface

- a), b), c), g), h) and i) Frame-part and door-part: steel, untreated
- d), e), f), j), k) and l) Frame-part: steel, zinc plated
- Door-part: steel, untreated
- Pins: steel, zinc plated
- O-ring: NBR
- Retaining ring: steel, zinc plated



Concealed Hinge

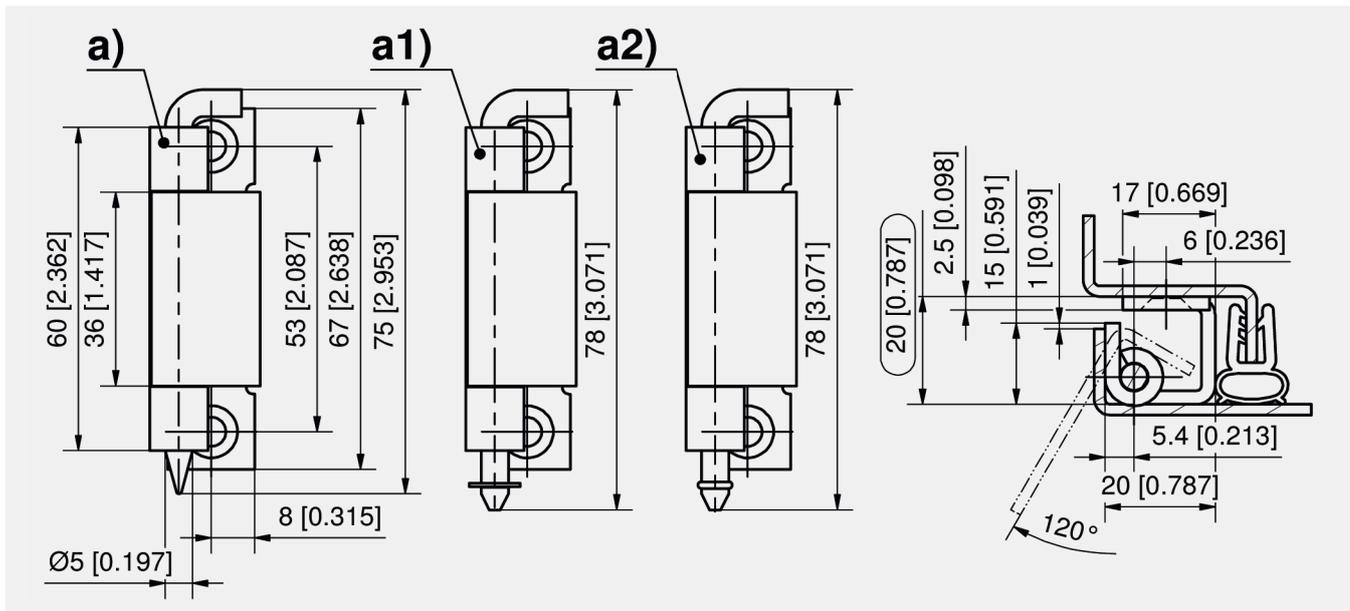
	Part Number	Version	Pin version	Installation type frame-part
a)	216-9001.00-00000		without groove	weld-on
b)	216-9009.00-00000		with groove incl. retaining ring	weld-on
c)	216-9009.00-00001		with groove incl. o-ring	weld-on
g)	216-9002.00-00000		without groove	screw-on
i)	216-9010.00-00000		with groove incl. retaining ring	screw-on
h)	216-9010.00-00001		with groove incl. o-ring	screw-on
d)	216-9020.00-00000	reinforced	without groove	weld-on
e)	216-9018.00-00000	reinforced	with groove incl. retaining ring	weld-on
f)	216-9018.00-00001	reinforced	with groove incl. o-ring	weld-on
j)	216-9021.00-00000	reinforced	without groove	screw-on
k)	216-9019.00-00000	reinforced	with groove incl. retaining ring	screw-on
l)	216-9019.00-00001	reinforced	with groove incl. o-ring	screw-on

Features

- For surface mounted doors.
- Hinge concealed.
- Door bending 18 mm.
- RH / LH application.
- 120° Opening angle.
- Fastening with counter-sunk screws M5.

Material and surface

- Frame-part:** steel, zinc plated
- Door-part:** steel, untreated
- Pin:** steel, zinc plated
- O-ring:** NBR



Concealed Hinge

	Part Number	Pin version	Installation type
a)	216-9005.00-00000	without groove	screw- / weld-on
a2)	216-9022.00-00000	with groove incl. retaining ring	screw- / weld-on
a1)	216-9022.00-00001	with groove incl. o-ring	screw- / weld-on



Features

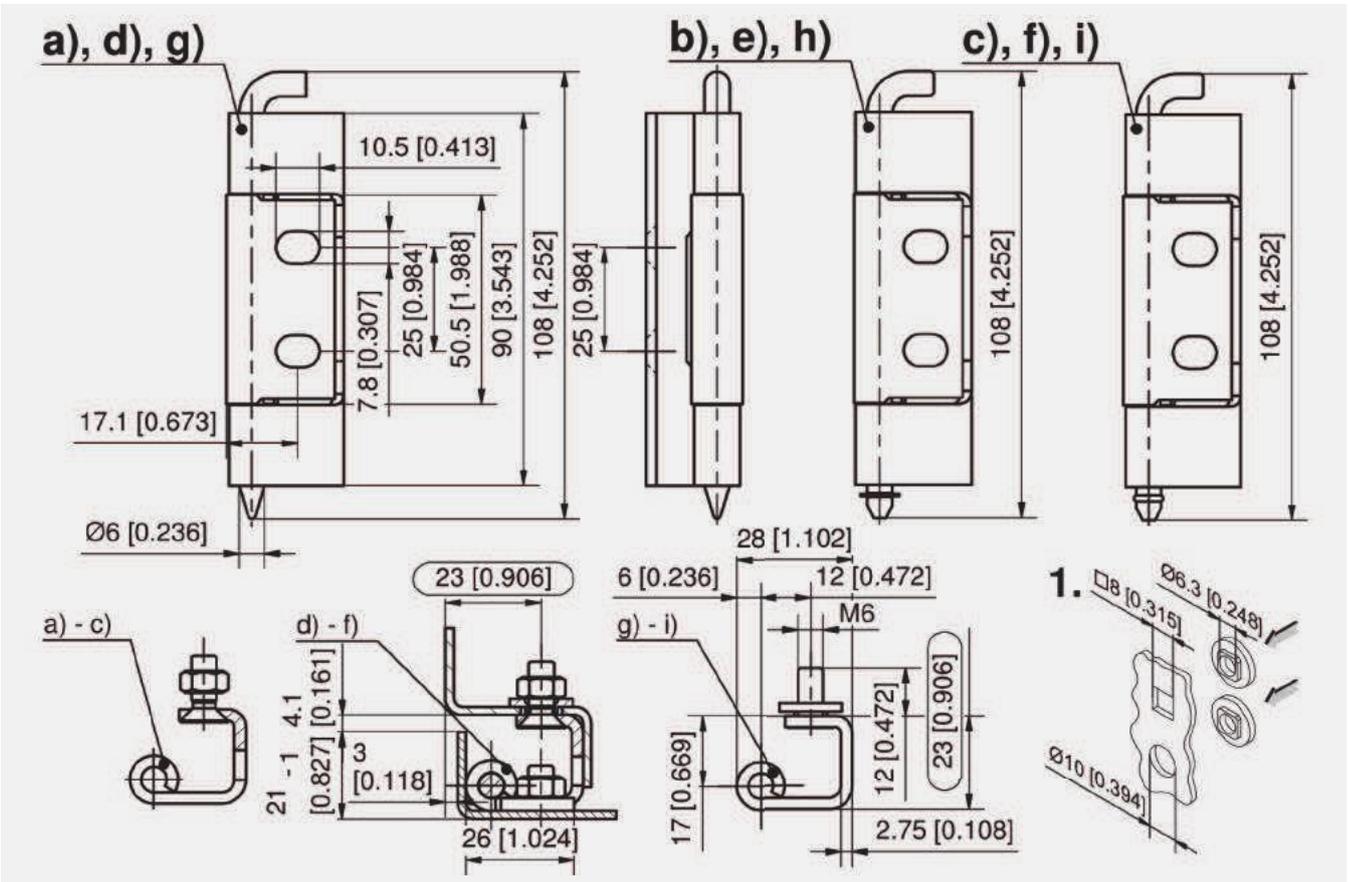
- For surface mounted doors.
- Hinge concealed.
- Door bending 23 mm.
- RH / LH application.
- 120° Opening angle.
- Door-part weld-on.

Material and surface

Frame-part, pin and fastening washer: steel, zinc plated
Door-part: steel, untreated

Note

1. = Installation instruction for fastening washer.



Concealed Hinge

	Part Number	Frame-part	Cutouts in the frame	Pin version
a)	243-9103.00-00000	with countersunk holes for M6	Ø6.3 or M6	without groove
b)	243-9104.00-00000	with countersunk holes for M6	Ø6.3 or M6	with groove incl. retaining ring
c)	243-9104.00-00001	with countersunk holes for M6	Ø6.3 or M6	with groove incl. o-ring
d)	243-9101.00-00000	with holes for M6 + fastening washer	□8 or Ø10	without groove
e)	243-9102.00-00000	with holes for M6 + fastening washer	□8 or Ø10	with groove incl. retaining ring
f)	243-9102.00-00001	with holes for M6 + fastening washer	□8 or Ø10	with groove incl. o-ring
g)	243-9109.00-00000	with studs M6 + fastening washer	Ø6.3, □8, Ø10	without groove
h)	243-9110.00-00000	with studs M6 + fastening washer	Ø6.3, □8, Ø10	with groove incl. retaining ring
i)	243-9110.00-00001	with studs M6 + fastening washer	Ø6.3, □8, Ø10	with groove incl. o-ring

Features

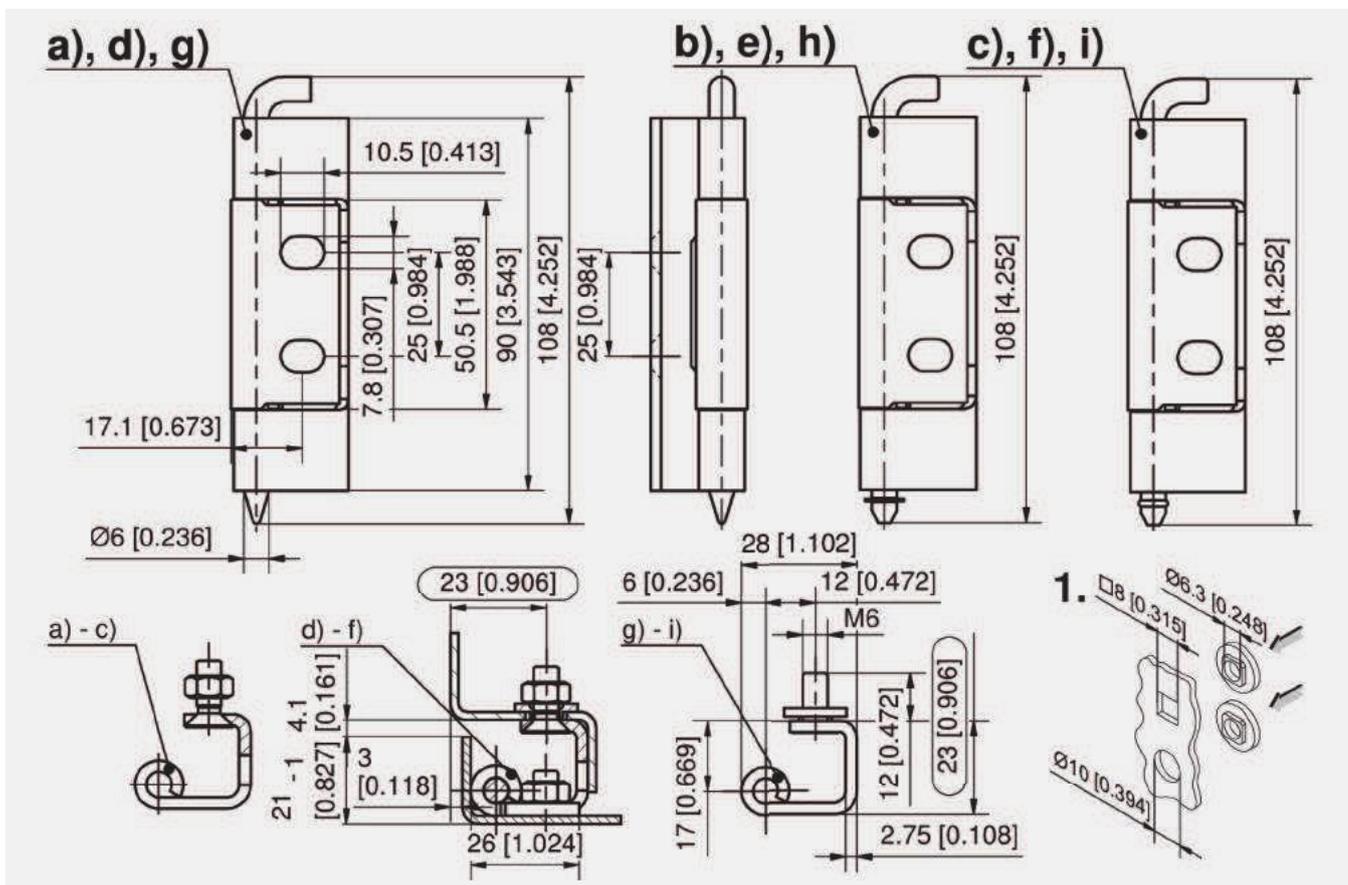
- For surface mounted doors.
- Hinge concealed.
- Door bending 23 mm.
- RH / LH application.
- 120° Opening angle.
- Door-part screw-on.

Material and surface

Frame-part, door-part, pin and fastening washer: steel, zinc plated

Note

1. = Installation instruction for fastening washer.



Concealed Hinge

	Part Number	Frame-part	Cutouts in the frame	Pin version
a)	243-9107.00-00000	with countersunk holes for M6	Ø6.3 or M6	without groove
b)	243-9108.00-00000	with countersunk holes for M6	Ø6.3 or M6	with groove incl. retaining ring
c)	243-9108.00-00001	with countersunk holes for M6	Ø6.3 or M6	with groove incl. o-ring
d)	243-9105.00-00000	with holes for M6 + fastening washer	□8 or Ø10	without groove
e)	243-9106.00-00000	with holes for M6 + fastening washer	□8 or Ø10	with groove incl. retaining ring
f)	243-9106.00-00001	with holes for M6 + fastening washer	□8 or Ø10	with groove incl. o-ring
g)	243-9111.00-00000	with studs M6 + fastening washer	Ø6.3, □8, Ø10	without groove
h)	243-9112.00-00000	with studs M6 + fastening washer	Ø6.3, □8, Ø10	with groove incl. retaining ring
i)	243-9112.00-00001	with studs M6 + fastening washer	Ø6.3, □8, Ø10	with groove incl. o-ring



Features

- For surface mounted doors.
- Hinge concealed.
- Door bending 23 mm.
- RH / LH application.
- 120° Opening angle.
- By rotating the 1/4 turn, the pivot pin is released and the door can be removed by pulling it to the front (see 2. and 3.).

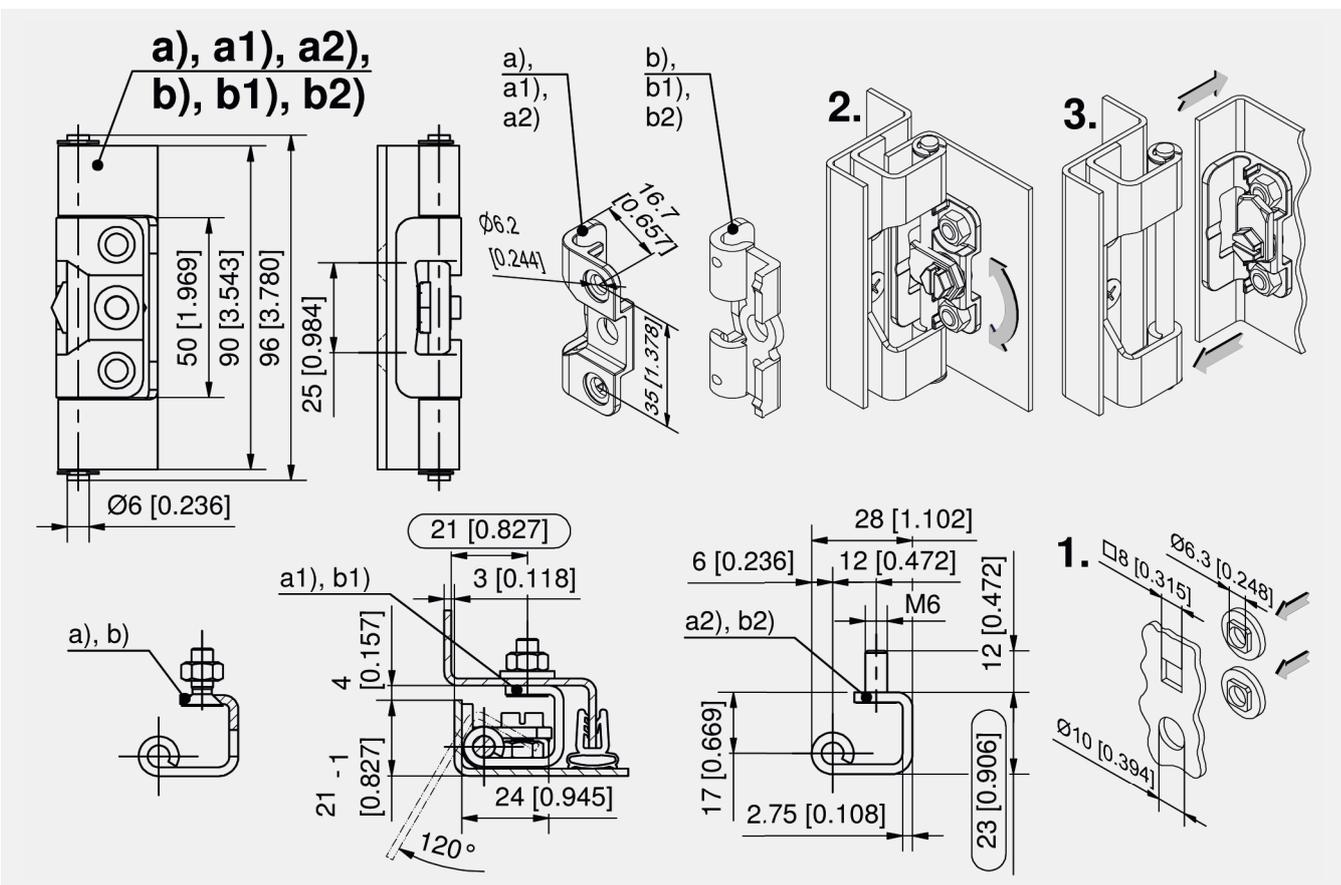
Material and surface

- a), a1) and a2)
- All parts:** steel, zinc plated
- b), b1) and b2)
- Door-part and ¼ turn:** zinc die, zinc plated
- Frame-part:** steel, zinc plated
- Pin:** steel, zinc plated

Note

1. = Installation instruction for fastening washer.

To a2) and b2):
Fastening washer is not used when Ø6.3.



Concealed Hinge

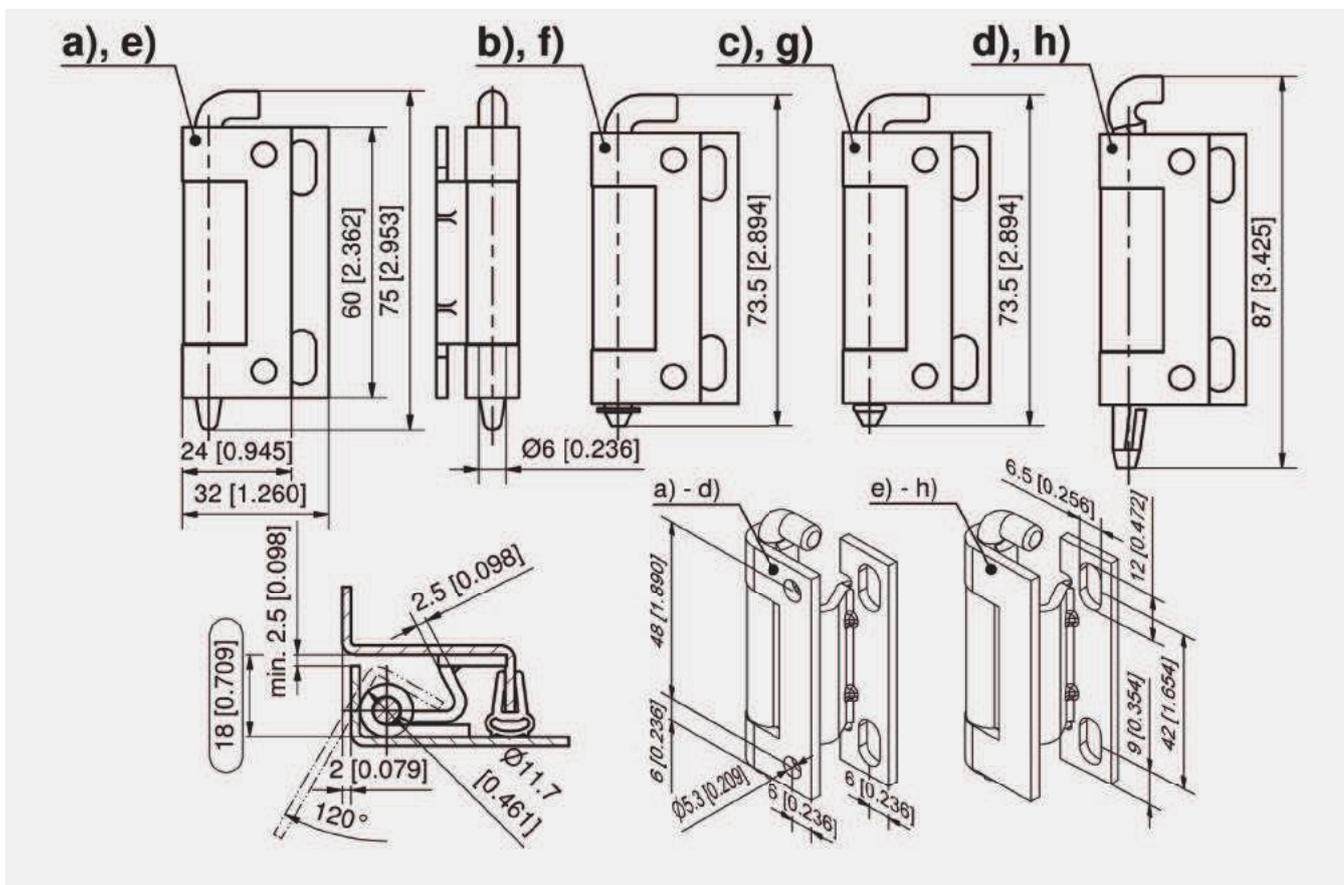
	Part Number	Frame-part	Cutouts in the frame	Installation type door-part
a)	243-9003.00-00000	with countersunk holes for M6	Ø6.3 or M6	weld-on
b)	243-9009.00-00000	with countersunk holes for M6	Ø6.3 or M6	screw-on
a1)	243-9002.00-00000	with holes for M6 + fastening washer	Ø8 or Ø10	weld-on
b1)	243-9010.00-00000	with holes for M6 + fastening washer	Ø8 or Ø10	screw-on
a2)	243-9007.00-00000	with holes for M6 + fastening washer	Ø6.3, Ø8, Ø10	weld-on
b2)	243-9011.00-00000	with holes for M6 + fastening washer	Ø6.3, Ø8, Ø10	screw-on

Features

- For surface mounted doors.
- Hinge concealed.
- Door bending 18 mm.
- RH / LH application.
- 120° Opening angle.
- Door-part screw-on or weld-on.
- Frame-part screw-on.
- The hinge can also be supplied with a self-securing POM pin which can be mounted upside-down for very short enclosures.

Material and surface

- Frame-part:** steel, zinc plated
- Door-part:** steel, untreated
- Pin:** steel, zinc plated
d) and h)
- Pin:** POM natural
c) and g)
- O-ring:** NBR



Concealed Hinge

	Part Number	Installation type door-part	Pin version	Material Pin
a)	216-9003.00-00000	screw-on	without groove	steel, zinc plated
b)	216-9011.00-00000	screw-on	with groove incl. retaining ring	steel, zinc plated
c)	216-9011.00-00001	screw-on	with groove incl. o-ring	steel, zinc plated
d)	216-9006.00-00000	screw-on	self-securing	POM
e)	216-9024.00-00000	weld-on	without groove	steel, zinc plated
f)	216-9025.00-00000	weld-on	with groove incl. retaining ring	steel, zinc plated
g)	216-9025.00-00001	weld-on	with groove incl. o-ring	steel, zinc plated
h)	216-9026.00-00000	weld-on	self-securing	POM

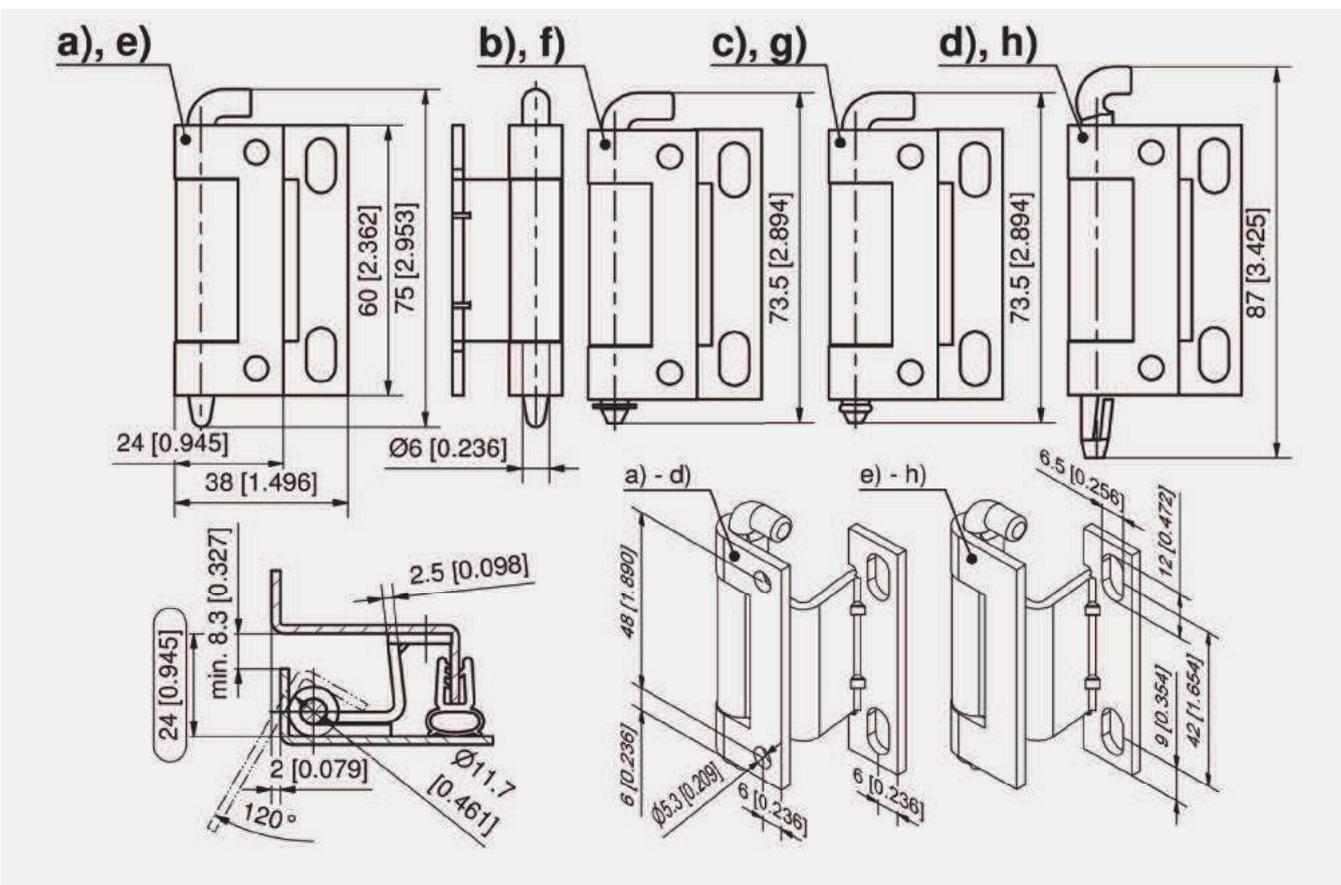


Features

- For surface mounted doors.
- Hinge concealed.
- Door bending 24 mm.
- RH / LH application.
- 120° Opening angle.
- Door-part screw-on or weld-on.
- Frame-part screw-on.
- The hinge can also be supplied with a self-securing POM pin which can be mounted upside-down for very short enclosures.

Material and surface

- Frame-part:** steel, zinc plated
- Door-part:** steel, untreated
- Pin:** steel, zinc plated
- d) and h)
- Pin:** POM natural
- c) and g)
- O-ring:** NBR



Concealed Hinge

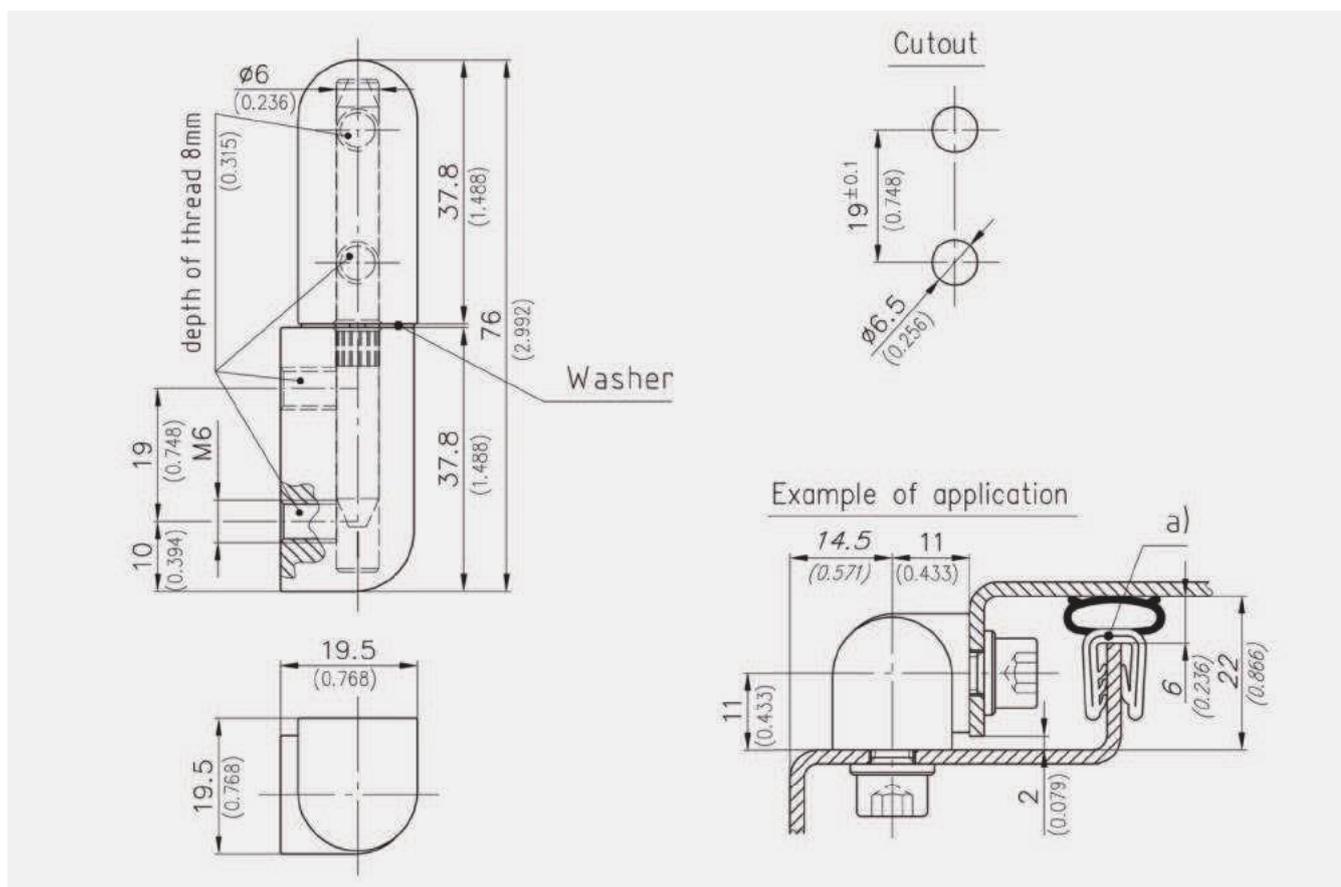
	Part Number	Installation type door-part	Pin version	Material Pin
a)	216-9004.00-00000	screw-on	without groove	steel, zinc plated
b)	216-9012.00-00000	screw-on	with groove incl. retaining ring	steel, zinc plated
c)	216-9012.00-00001	screw-on	with groove incl. o-ring	steel, zinc plated
d)	216-9007.00-00000	screw-on	self-securing	POM
e)	216-9029.00-00000	weld-on	without groove	steel, zinc plated
f)	216-9028.00-00000	weld-on	with groove incl. retaining ring	steel, zinc plated
g)	216-9028.00-00001	weld-on	with groove incl. o-ring	steel, zinc plated
h)	216-9030.00-00000	weld-on	self-securing	POM

Features

- For surface mounted doors.
- Hinge visible.
- Lift-off.
- RH / LH application.
- 180° Opening angle.
- Pin pressed-in.
- With teflon spacer for a durable, smooth-running functional reliability.

Material and surface

- Corner hinge:** zinc die, chrome plated, black powdered or untreated
- Pin:** steel, zinc plated
- Washer:** teflon


Corner Hinge

Part Number	Version	Pin version	Material Pin	Installation type	Pin d
224-9009.00-00000	chrome plated	pressed in	steel, zinc plated	screw-on	6
224-9010.00-00000	black powdered	pressed in	steel, zinc plated	screw-on	6
224-9011.00-00000	untreated	pressed in	steel, zinc plated	screw-on	6

SNAP



RoHS
WEEE



Features

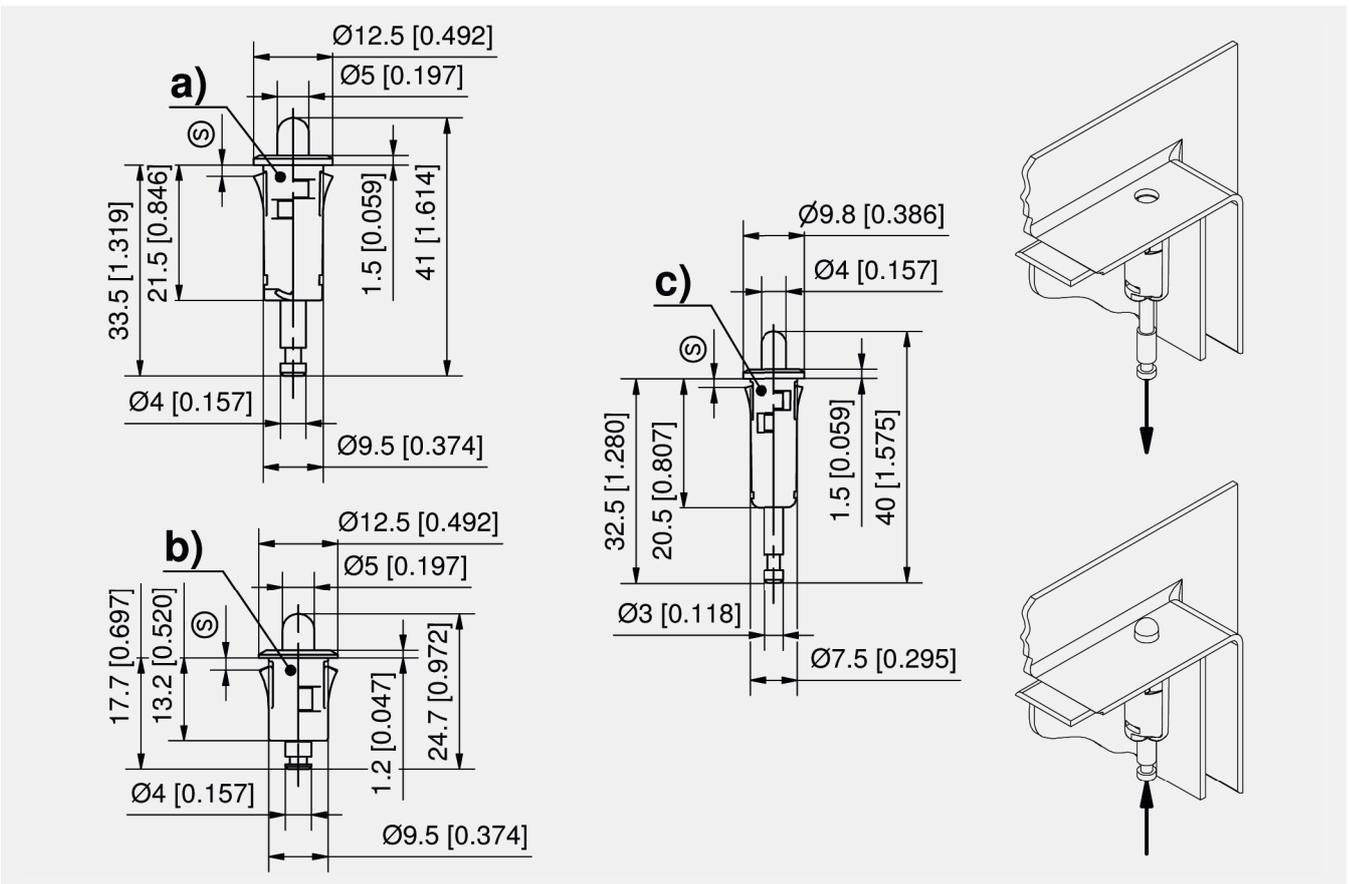
- For nested doors.
- Hinge concealed.
- Small space requirement.
- 120° Opening angle.
- A simple clip-in fitting. The spring loaded pin allows for an easy and quick installation and removal of the door.

Material and surface

- Housing:** PA, black
Pin: steel, zinc plated
 a) and c)
Spring: stainless steel
 b)
Spring: steel, zinc plated

Note

Door-cutout and frame-cutout differ.



Concealed Hinge

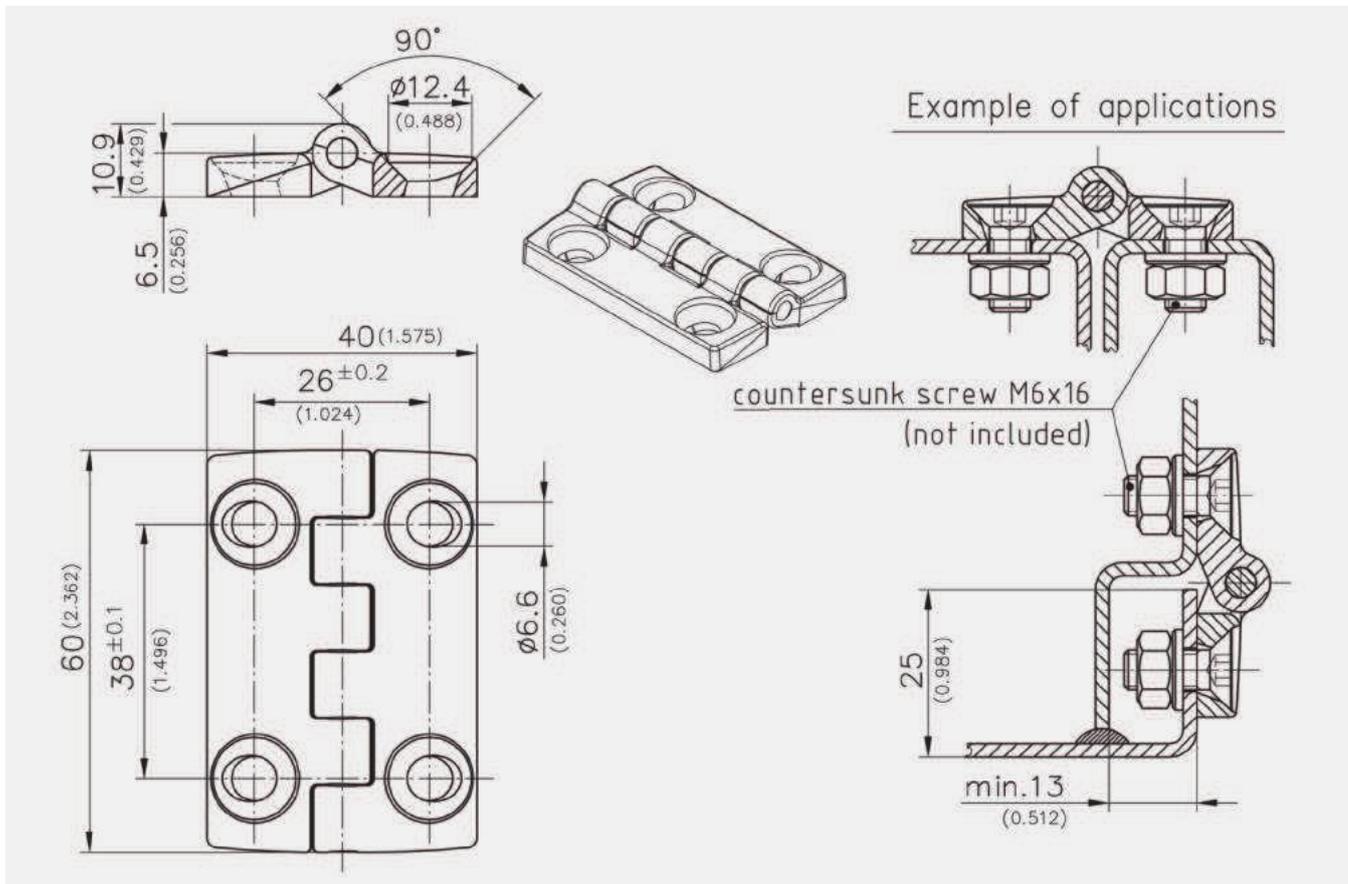
	Part Number	clamping range (S)	Material Pin	Installation type
a)	245-9303.00-00000	1.4-1.6	steel, zinc plated	tool-less
b)	245-9304.07-07101	1.4-1.6	steel, zinc plated	tool-less
c)	245-9301.00-00000	1.0-1.2	steel, zinc plated	tool-less

Features

- For nested doors.
- Hinge visible.
- RH / LH application.
- 180° Opening angle.
- Captive pin protected against loosening and falling out.
- Tight tolerance in knuckles ensures proper alignment.
- 6-part knuckle pin assembly.
- Lightweight.
- Corrosion resistant.
- Rounded corners.
- Fitting by countersunk screws M6 x 16 according to DIN 7991 or DIN ISO 10642 and DIN 965 or DIN ISO 7046.

Material and surface

Hinge: PA6, black UL 94 V0 halogen free



Hinge

Part Number	Pin version	Material Pin	Installation type
218-9220.00-00000	molded in	PA	screw-on



RoHS
WEEE



Clip-on profiles combine the characteristics of edge protection profiles and sealing profiles.

Features

- EPDM profiles are tested according to UL 157 and UL 50 E.
- Clip-on sealing.
- The sealing part of these profiles is made of sponge rubber and the clamp area consists of soft rubber with a steel clip-on core.
- In an extrusion process the two materials are bonded to each other through vulcanization.

Material and surface

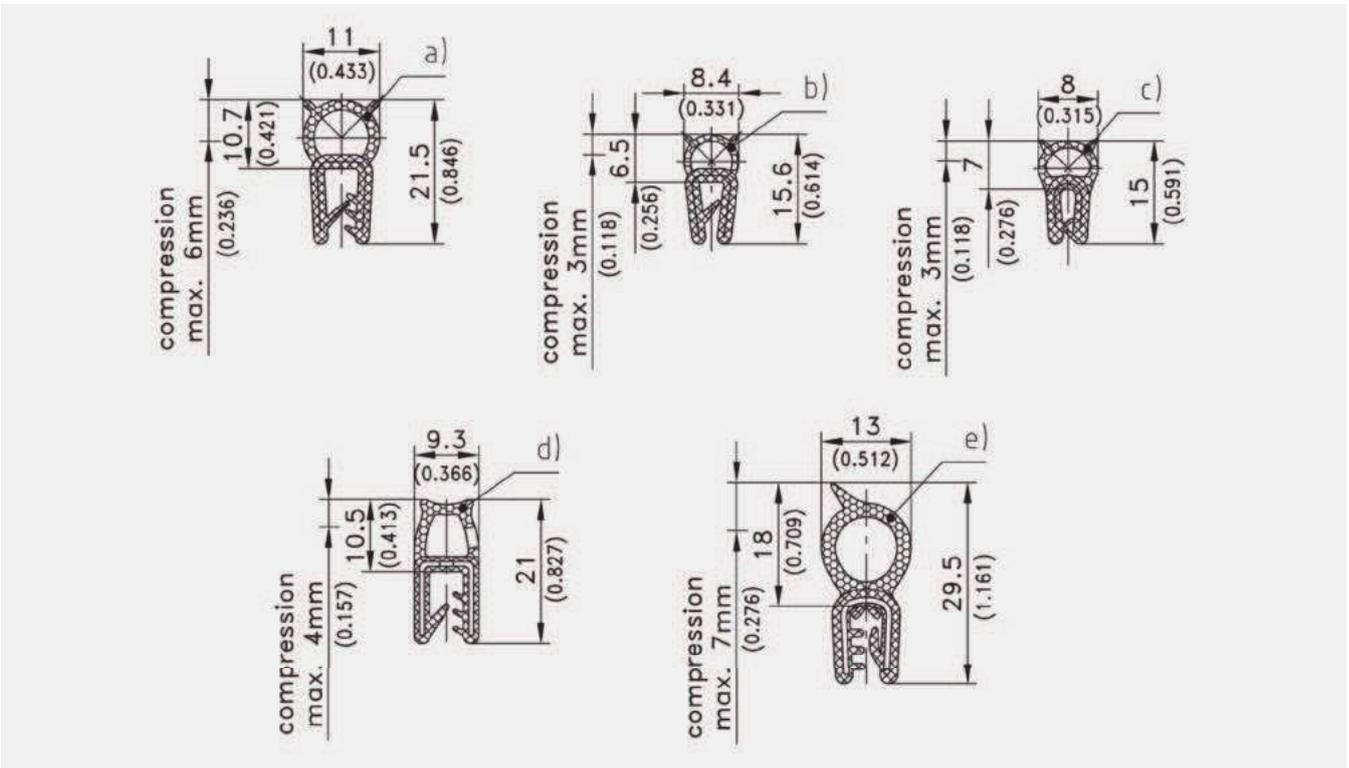
Clip-on profiles: EPDM or NBR

Carrier: Soft rubber

Sealing part: Sponge rubber

Note

The profiles made of NBR are oil resistant.



Clip-on sealing profile

	Part Number	Material	Material 2	Colour	Clamping range	Width W	Height H	Packaging unit
a)	209-0201.00-00000	Soft rubber, EPDM	Sponge rubber, EPDM	black	1,5–3,0	11	21,5	50 m
a)	209-0201.1A-00000	Soft rubber, EPDM	Sponge rubber, EPDM	black	0,8–2,0	11	21,5	50 m
a)	209-2201.00-00000	Soft rubber, NBR	Sponge rubber, NBR	black	1,5–3,0	11	21,5	50 m
a)	209-0240.00-00000	Soft rubber, EPDM	Sponge rubber, EPDM	black	3,0–4,0	11	21,5	100 m
b)	209-0205.00-00000	Soft rubber, EPDM	Sponge rubber, EPDM	black	1,0–2,0	8,4	15,6	50 m
b)	209-0246.00-00000	Soft rubber, NBR	Sponge rubber, NBR	black	1,0–2,0	8,4	15,6	50 m
c)	209-0205.1A-00000	Soft rubber, EPDM	Sponge rubber, EPDM	black	0,8–1,5	8	15	50 m
d)	209-0211.00-00000	Soft rubber, EPDM	Sponge rubber, EPDM	black	1,0–2,5	9,3	21	75 m
e)	209-0220.00-00000	Soft rubber, EPDM	Sponge rubber, EPDM	black	1,0–2,5	13	29,5	75 m

Features

- Screw assembly consists of raised countersunk M5 x 30 Phillips H2 screw and sleeve.
- Additional lengths and materials of the screw available on request.
- Captive by using O-ring 839-3770.00-00412.

Material and surface

Raised countersunk screw: steel, zinc plated

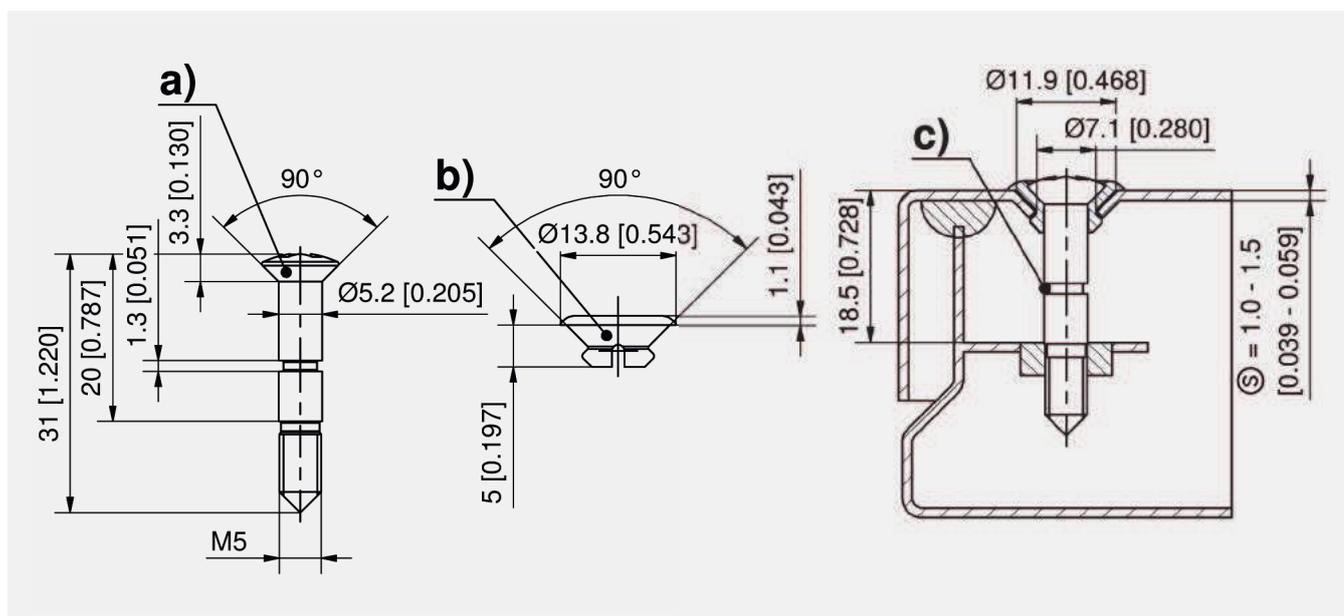
Sleeve: TPV / Santoprene

Note

Meets IP66 certification (applicable for installation example shown below with even compression of the foam/glued seal).

IP 66

RoHS WEEE



Screw assembly

	Part Number	Version
a)	202-1103.15-00530	Raised countersunk screw, M5 x 30
b)	203-0655.61-00000	Sleeve

	Function extension	Part Number
+	O-ring 4 x 1.2 mm	839-3770.00-00412

RoHS
WEEE



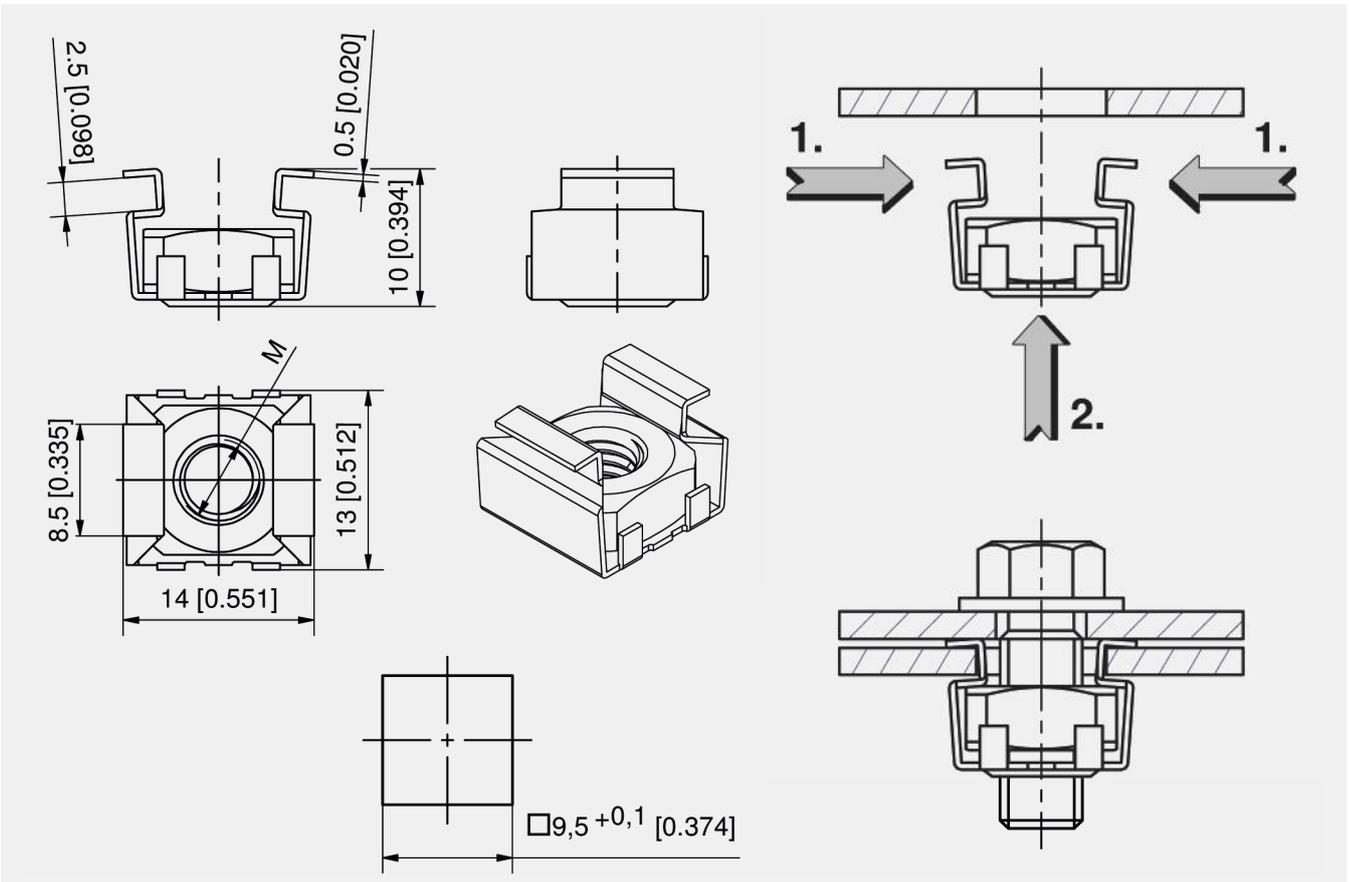
Ensures fixed connection of two metal sheets.

Features

- Easy installation by pressing into square holes.
- Nut is moveable and adjustable in the cage until final fixing by screw.

Material and surface

Cage: steel, zinc plated or stainless steel AISI 304
Nut: steel, zinc plated or stainless steel AISI 316



Cage Nuts

Part Number	Material	Surface	Version	packaging unit
359-0250.06-00000	steel	zinc plated	M5	200 pcs.
359-0206.06-00000	steel	zinc plated	M6	200 pcs.
353-2010.00-00000	stainless steel		M5	200 pcs.

Ensures fixed connection of two metal sheets.

Features

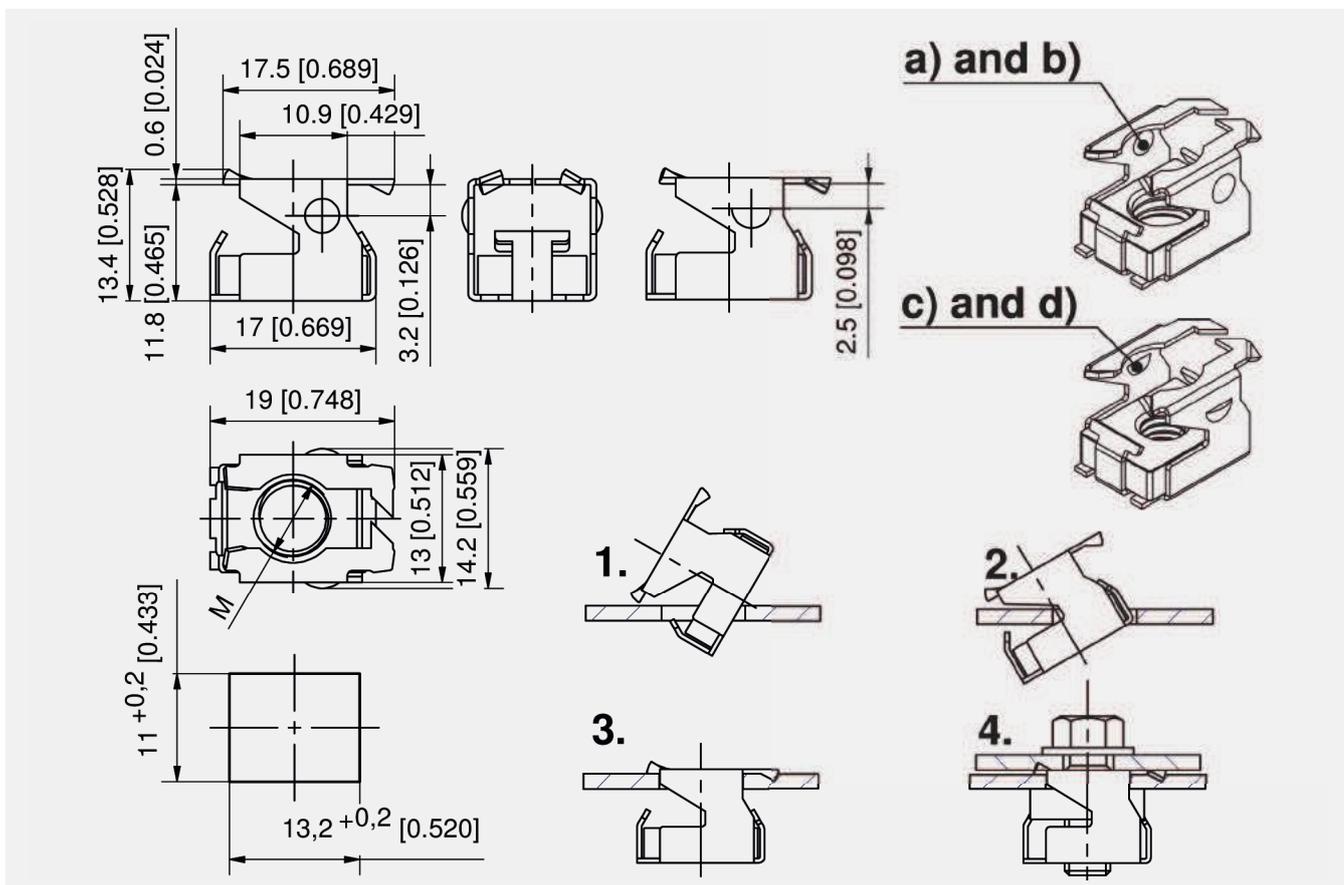
- Easy installation by pressing into square holes.
- Nut is moveable and adjustable in the cage until final fixing by screw.
- c) and d) Special design of the cage prevents from falling out of the cutout.

Material and surface

Cage and Nut: steel, zinc plated



RoHS
WEEE



Cage Nuts

	Part Number	Material	Surface	Version	packaging unit
a)	350-2004.00-00000	steel	zinc plated	M8	200 pcs.
b)	350-2005.00-00000	steel	zinc plated	M6	200 pcs.
c)	350-2046.00-00000	steel	zinc plated	M6	200 pcs.
d)	350-2096.00-00000	steel	zinc plated	1/4-20UNC	200 pcs.

SNAP



RoHS
WEEE



Wire catches SNAP-LINE can be fitted onto pre-punched channels / profiles.

Features

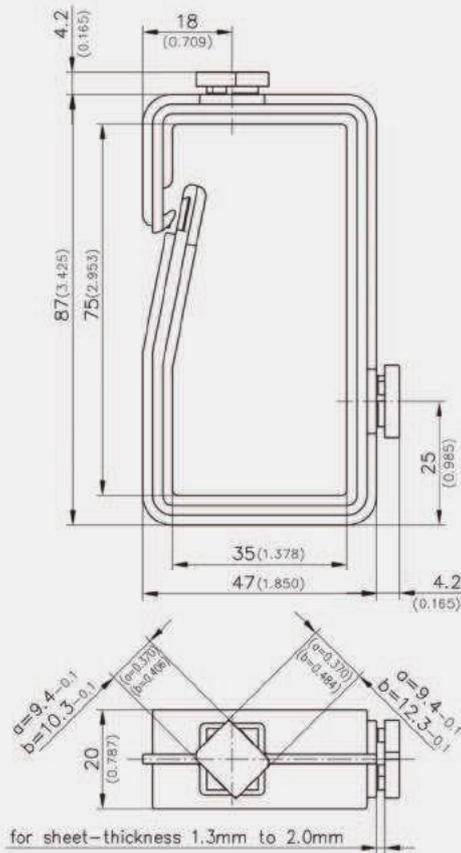
- Improves handling of power, network and fiber optic cables in the cabinet.
- Easy installation in a suitable square hole by turning 45°.
- The jamming of the bow parts in the range of the opening when the cable support is filled.
- For sheet-thickness 1.3 mm to 2.0 mm.

Material and surface

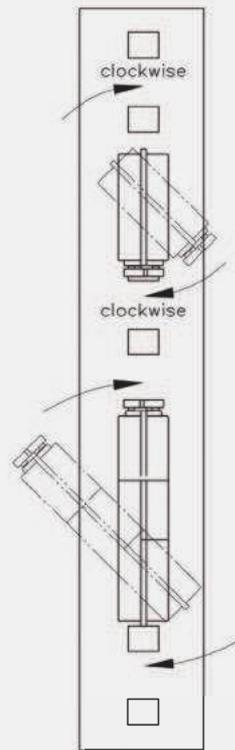
Wire catch: PA, black

Note

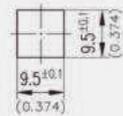
Enter the wire catch in an angle of about 45° into the cutout and turn 45° clockwise. At this end position the special shape makes the wire catch fixed in the cutout.



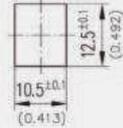
Example of application



Cutout a)



Cutout b)



Wire Catch

	Part Number	Cutout	Installation type
a)	214-0106.50-00013	9.5	tool-less
b)	214-0105.50-00013	12.5 x 10.5	tool-less

Clip-in cable management device for a cutout of 12.7, e.g. rail frame.

Features

- Clips into the installation cutout for simple tool-less installation.
- The square base 12.5 of the cable management device prevents it from turning within the installation cutout.
- Can be opened or closed from the front in order to facilitate inserting or removing of the cables.
- Horizontal / vertical use.

Material and surface

Cable Management Device:
PA, black

Note

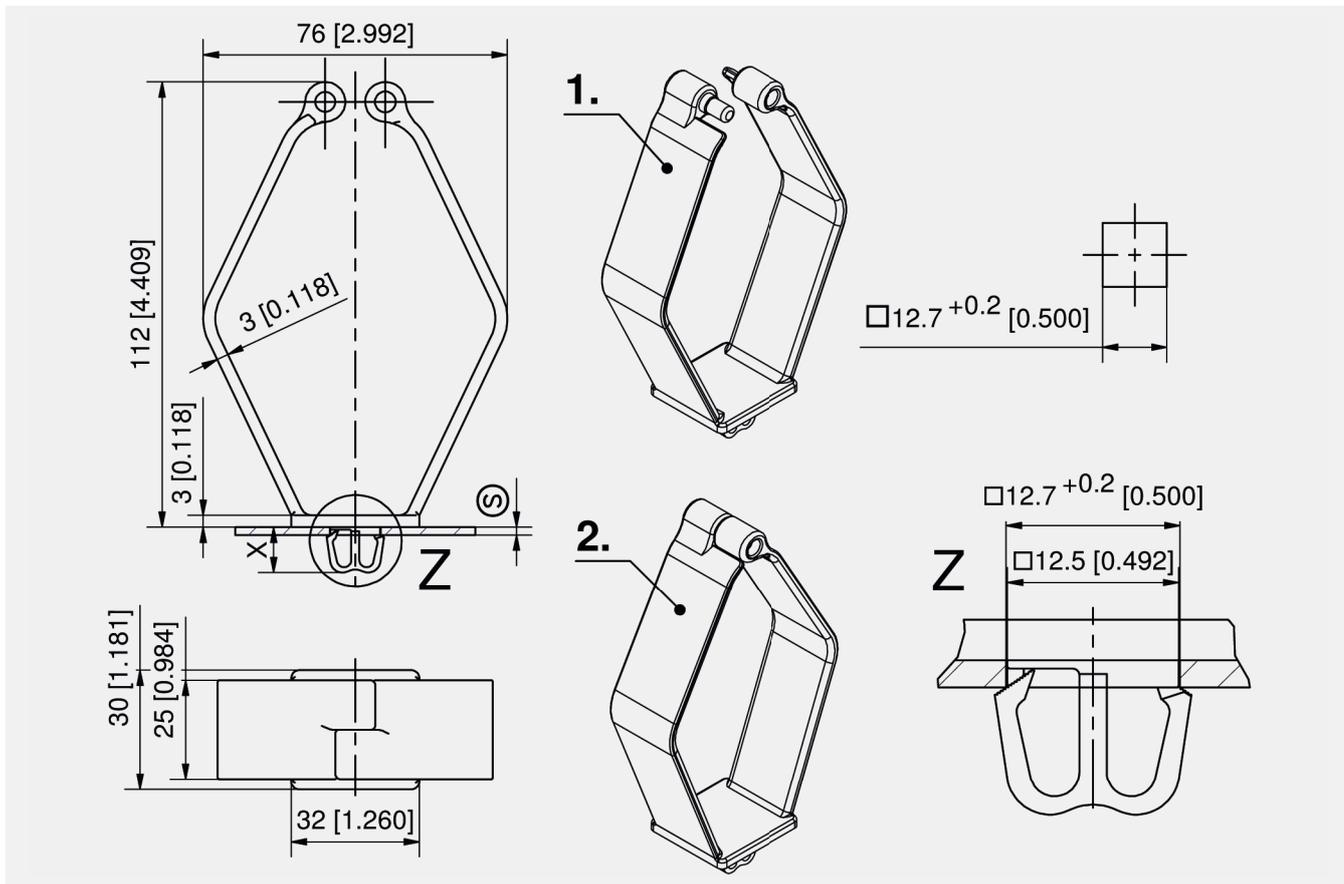
- 1. = open
- 2. = closed



SNAP



RoHS
WEEE



Cable Management Device

Part Number	Cutout	Installation type	clamping range (S)	Dimension X	packaging unit
214-0108.51-20000	12.7	tool-less	1,5-2	11,4	100

+	Function extension	Part Number
	Clip-on Radius R30 SNAP-LINE	6-065SL

SNAP



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Cable management device for clipping onto a cutout of 9.5 with a separate fastener e.g. rail frame.

Features

- Use of a Fastener allows for quick, tool-less assembly.
- Prevents the cable management device from turning.
- Can be opened or closed from the front in order to facilitate inserting or removing of the cables.
- Horizontal / vertical use.

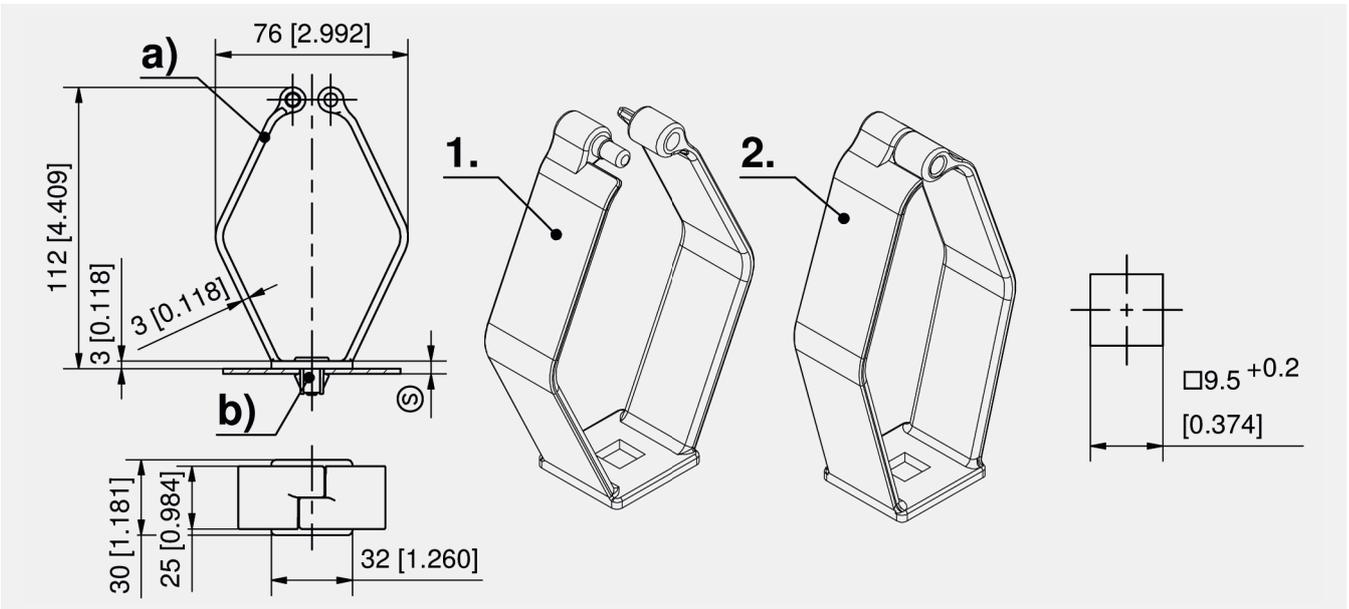
Material and surface

Cable management device:
PA, black

Note

The (S) dimension indicates the total thickness of the sheet metal panels.

- b) = Fastener
- 1. = open
- 2. = closed



Cable Management Device

	Part Number	Cutout	Installation type	packaging unit
a)	214-0108.51-00000	9.5	tool-less	100

	Function extension	Part Number
+	Captive Flex-Fastener 9.5 SNAP-LINE	1-034SL
	Captive Flex-Fastener 9.5 SNAP-LINE	1-034.01SL
	Fastener 9.5 SNAP-LINE	1-041.03SL
	Captive Fastener 9.5 SNAP-LINE	1-041.06SL
	Clip-on Radius R30 SNAP-LINE	6-065SL

Clip-on radius R30 for cable management device 6-061SL and 6-062SL.

Features

- Tool-less installation.
- Simplifies wiring of horizontal power, network and fiber optic cables in the cabinet.
- Easily guides cables around corners with gentle radius.
- Protects cables from damage and kinks during wiring.

Material and surface

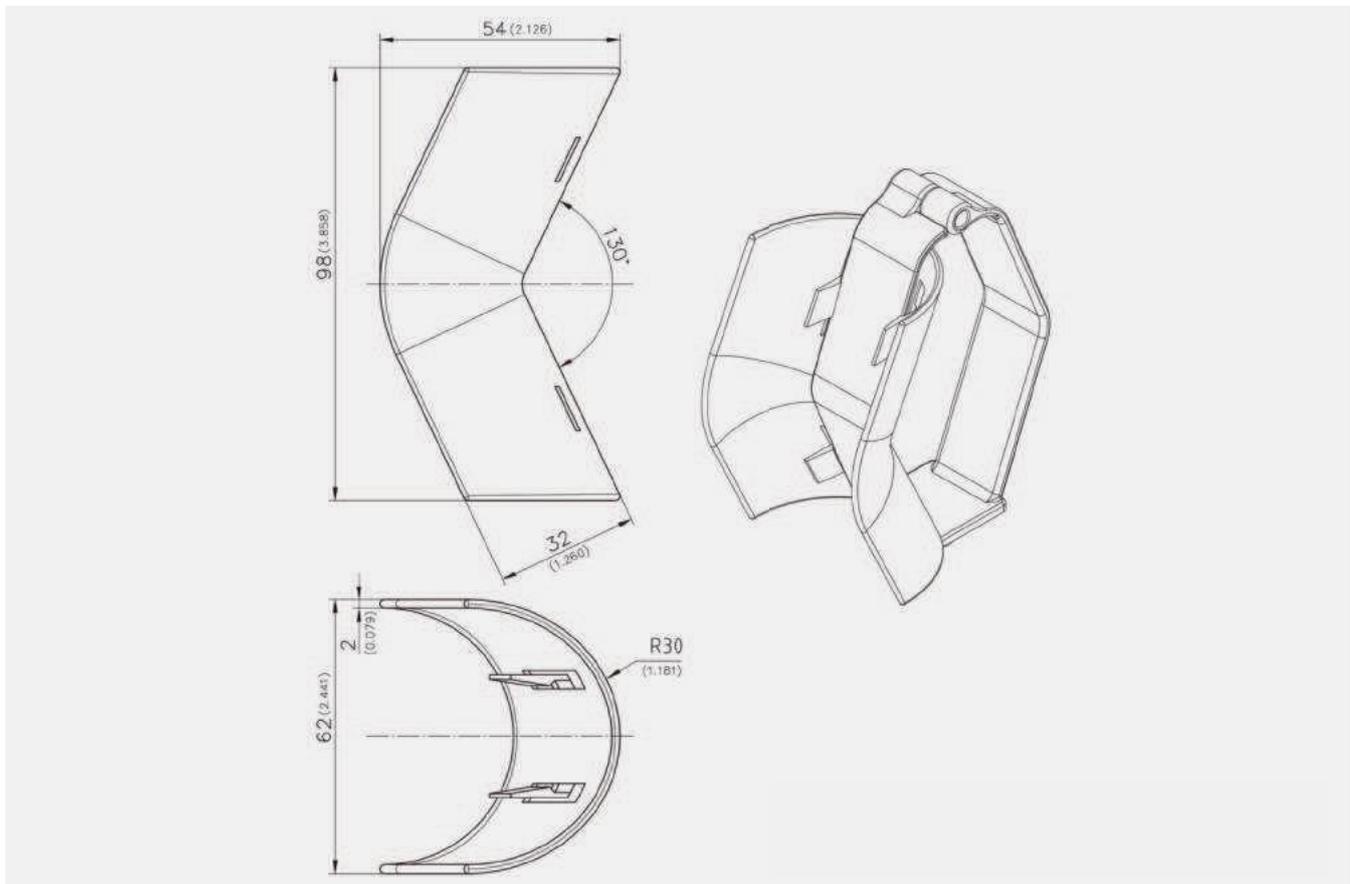
Clip-on radius: PA, black



SNAP



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Clip-on Radius for Cable Management Device

Part Number	Installation type	packaging unit
214-0110.51-00000	tool-less	100

+	Function extension	Part Number
	Cable Management Device 12.7 SNAP-LINE	6-061SL
	Cable Management Device 9.5 SNAP-LINE	6-062SL

SNAP



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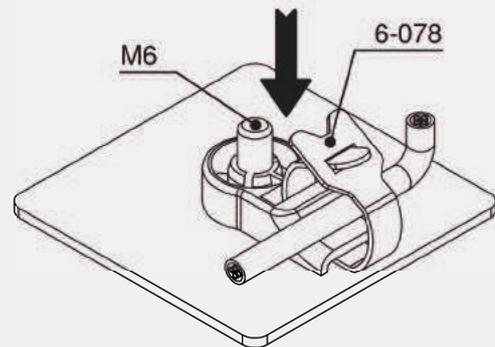
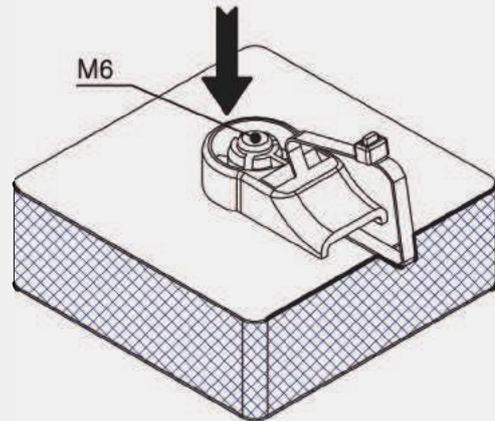
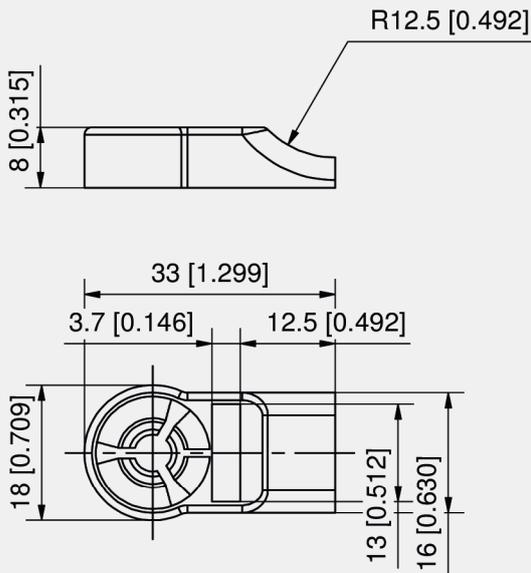
Cable tie mount for quick, tool-less assembly onto a M6 weld stud.

Features

- Simple insertion of the cable tie through the upper insertion opening.
- Secure fit on the weld stud ensures strong hold of the cables via cable ties.
- Secure fit in any position on the weld stud.
- Can be removed by simply unscrewing counter clockwise.

Material and surface

Cable tie mount: PA, black



Cable Tie Mount

Part Number	Installation type	packaging unit
214-0111.51-00000	tool-less	250

+	Function extension	Part Number
	Velcro Cable Tie	6-078

Clip-in cable tie mount for 9.5 or 12.7 cutout.

Features

- Clips into the installation cutout for simple tool-less installation.
- The square base (9.2 and 12.5) of the cable tie mount prevents it from turning within the installation cutout.
- Cable tie easily installed through loop.
- Audible click ensures proper secure installation.

Material and surface

Cable tie mount: PA, black

Note

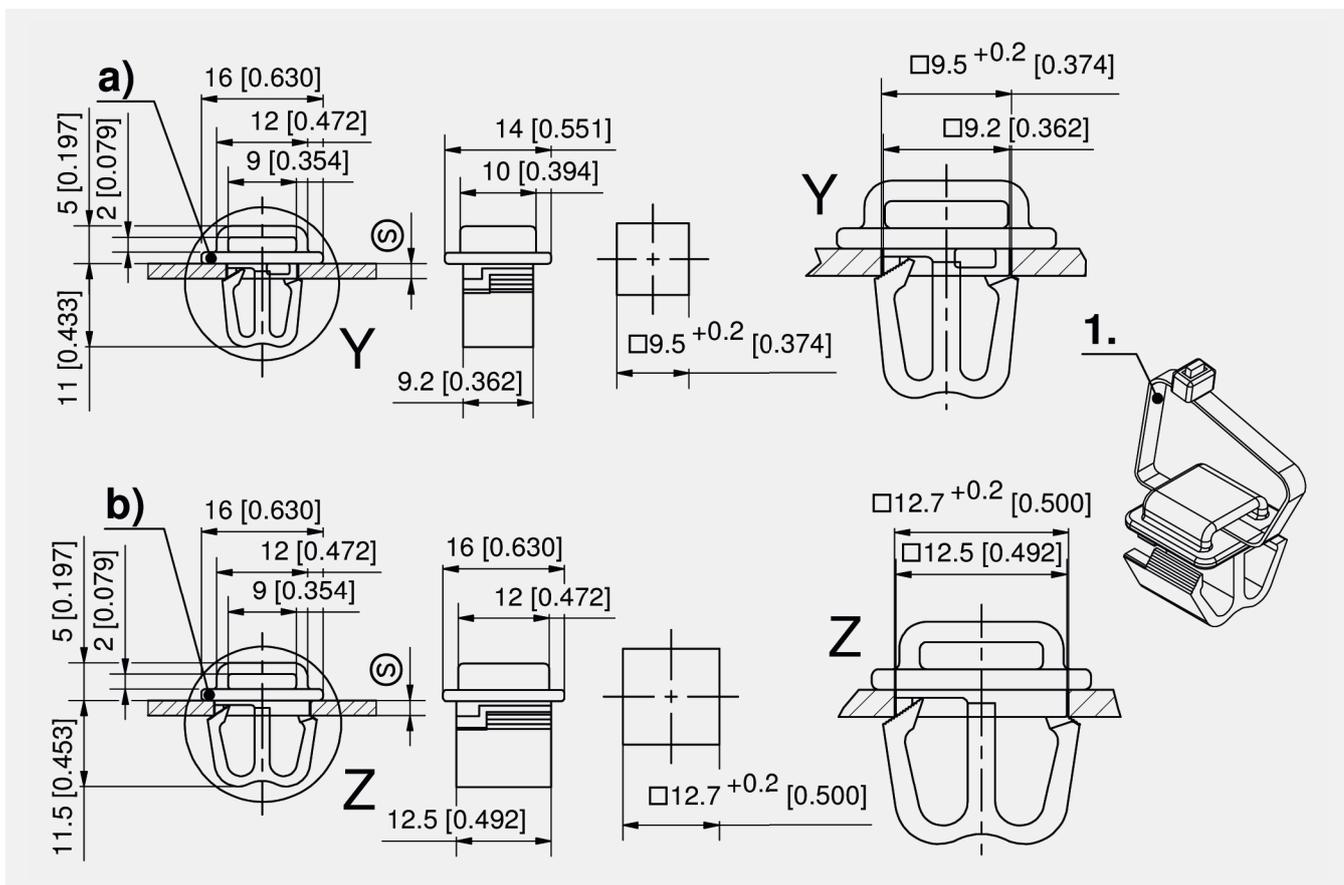
1. = Cable tie



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Cable Tie Mount

	Part Number	Cutout	Installation type	clamping range (S)	packaging unit
a)	214-0107.51-00000	9.5	tool-less	1,5-2	250
b)	214-0107.51-10000	12.7	tool-less	1,5-2	250

	Function extension	Part Number
+	Velcro Cable Tie	6-078



Quarter-Turn PrA SNAP-LINE
on page 32.

Velcro cable ties can be easily inserted into the holes in the cable tie bracket 6-068SL and 6-070SL.

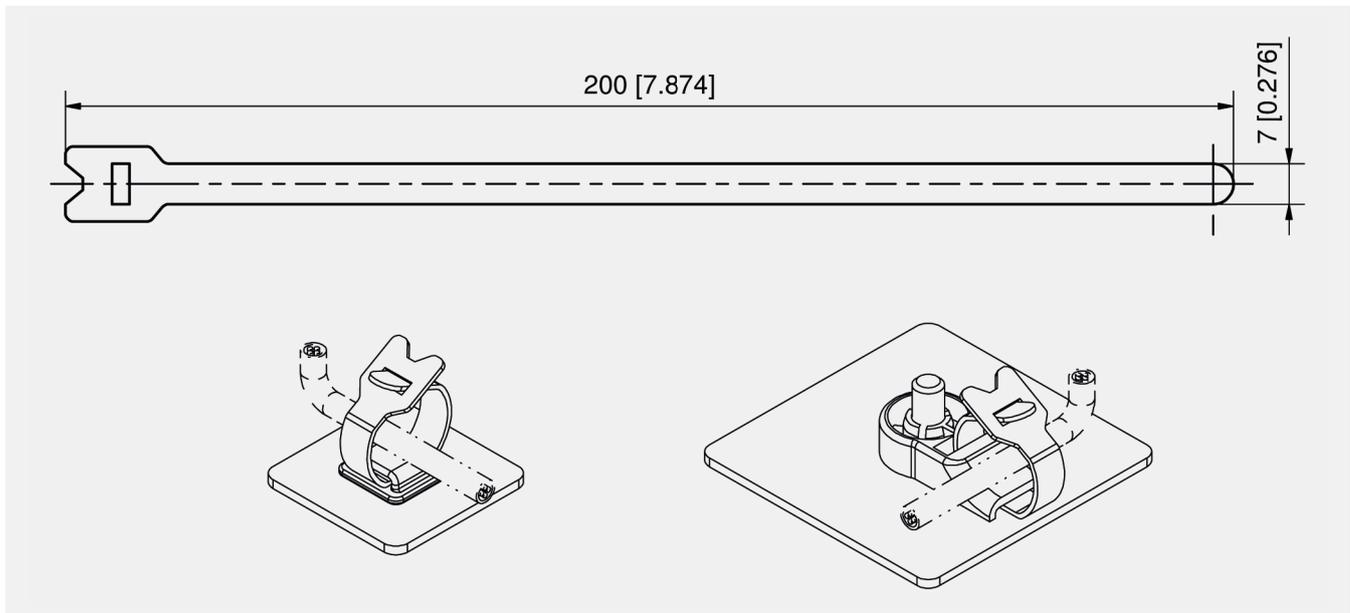
**RoHS
WEEE**

Features

- Flexible application allows cables, supply lines and hoses to be wrapped easily, effectively and without tools.
- Can be reused multiple times.
- Protects sensitive materials from damage.
- Soft and flexible material.

Material and surface

- Velcro cable tie:** PP and Velour, black
- Peel back force:** 0.4 Ncm
- Shear force:** 7.0 Ncm
- Tensile strength:** 120 Ncm
- Melting point:** 150°C



Cable Tie

Part Number	Version	packaging unit
214-0112.00-00050	Length 200 mm	50

+	Function extension	Part Number
	Cable Tie Mount 9.5 and 12.7 SNAP-LINE	6-070SL
	Cable Tie Mount SNAP-LINE	6-068SL



Slam Latch for Profile-Cylinder with latch bolt made of spheroidal graphite cast iron to ensure high wear resistance.

Features

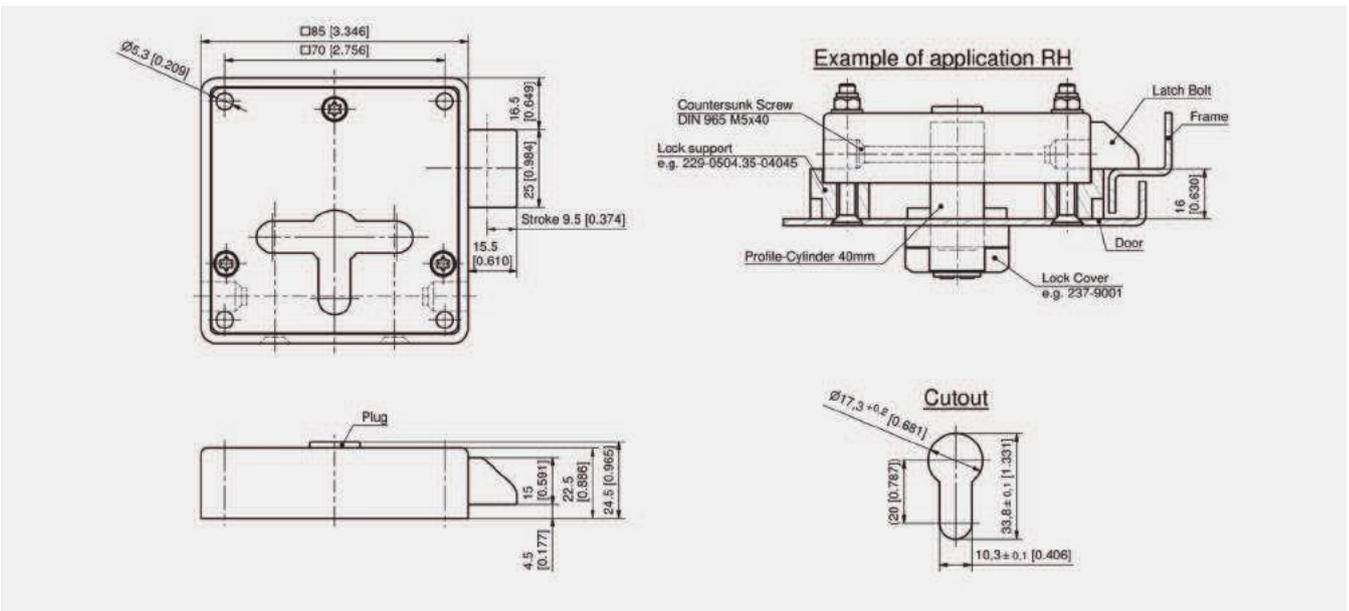
- RH / LH or vertical / horizontal application.
- Depending on application, key is always in the correct position.
- Profile-cylinder with lengths of 40 and 45 mm and cam acc. to DIN 18252 can be used.
- Pull back of the latch bolt by rotation of the key.
- Closing with slam-lock.
- Closing in locked position possible due to free stroke.

Material and surface

Slam latch: zinc die, zinc plated
Latch bolt: spheroidal graphite, cast iron

Note

Please order separately:
 Profile-Cylinder, Lock support and Lock cover
 Installation with 4 carriage bolts or weld studs M5.



Slam latch for profile-cylinder

Part Number	Installation type	Version
229-9111.00-00000	screw-on	RH
229-9112.00-00000	screw-on	LH

✳	6-111.03	Lock Support for Slam Latch
	211-9001.00-00000	Profile-cylinder, keyed different
	211-9002.00-00000	Profile-cylinder, keyed alike

+	Function extension	Part Number
	Polyamide Lock Cover	6-115

Slam Latch for Profile-Cylinder with latch bolt made of spheroidal graphite cast iron to ensure high wear resistance.

Features

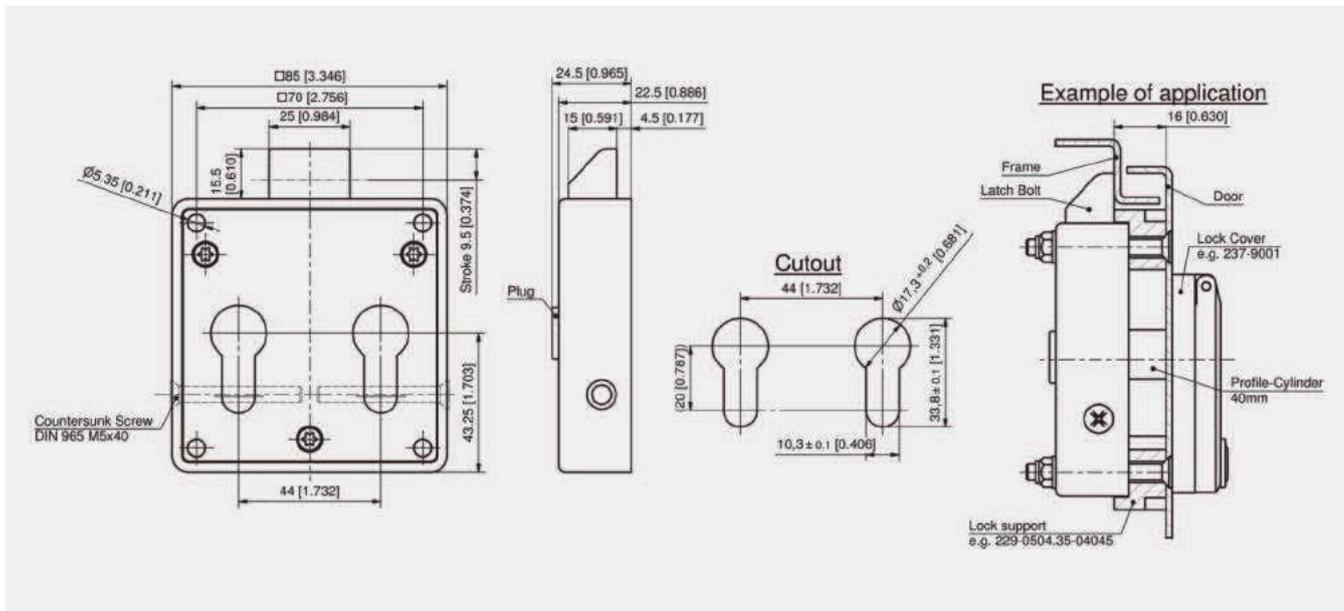
- Profile-cylinder with lengths of 40 / 45 mm and cam acc. to DIN 18252 can be used.
- Two profile-cylinder allow opening by each cylinder without un-locking the other one.
- Use of different keys and profile cylinders possible.
- Closing with slam-lock.
- Closing in locked position possible due to free stroke.

Material and surface

Slam latch: zinc die, zinc plated
Latch bolt: spheroidal graphite, cast iron

Note

Please order separately:
 Profile-Cylinder, Lock support and Lock cover
 Installation with 4 carriage bolts or weld studs M5.



Slam latch for profile-cylinder

Part Number	Installation type
229-9113.00-00000	screw-on
6-111.03	Lock Support for Slam Latch
211-9001.00-00000	Profile-cylinder, keyed different
211-9002.00-00000	Profile-cylinder, keyed alike

Function extension	Part Number
Polyamide Lock Cover	6-115

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Slam Latch for Profile-Cylinder with latch bolt made of spheroidal graphite cast iron to ensure high wear resistance.

Features

- RH / LH or vertical / horizontal application.
- Inserts see Product System 1-101, not included in delivery.
- Pull back of the bolt by rotation of the insert.
- Closing with slam-lock.
- Closing in locked position possible due to free stroke.

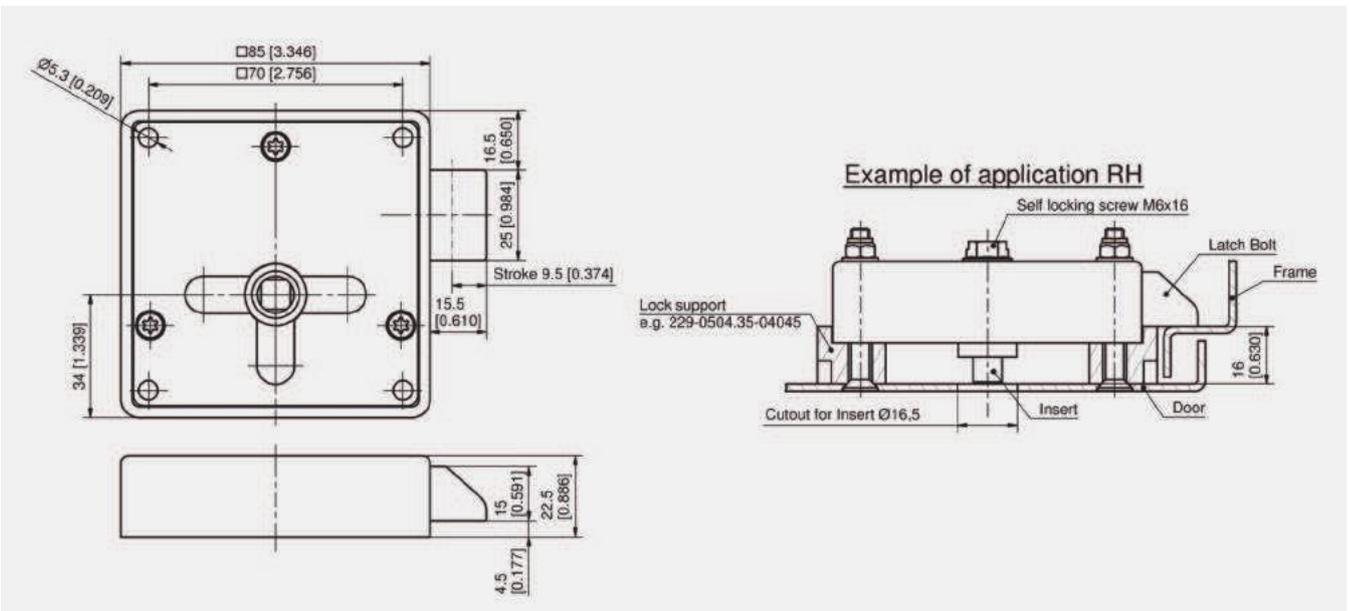
Material and surface

Slam latch: zinc die, zinc plated
Latch bolt: spheroidal graphite, cast iron

Note

Please order separately:
 Insert, Lock support and Lock cover

Installation with 4 carriage bolts or weld studs M5.



Slam latch for insert

Part Number	Installation type	Version
229-9109.00-00000	screw-on	RH
229-9110.00-00000	screw-on	LH

✱	6-111.03 1-101	Lock Support for Slam Latch Inserts Pr20.1
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Function extension	Part Number
Polyamide Lock Cover	6-115

Lock support for different door bendings.

Features

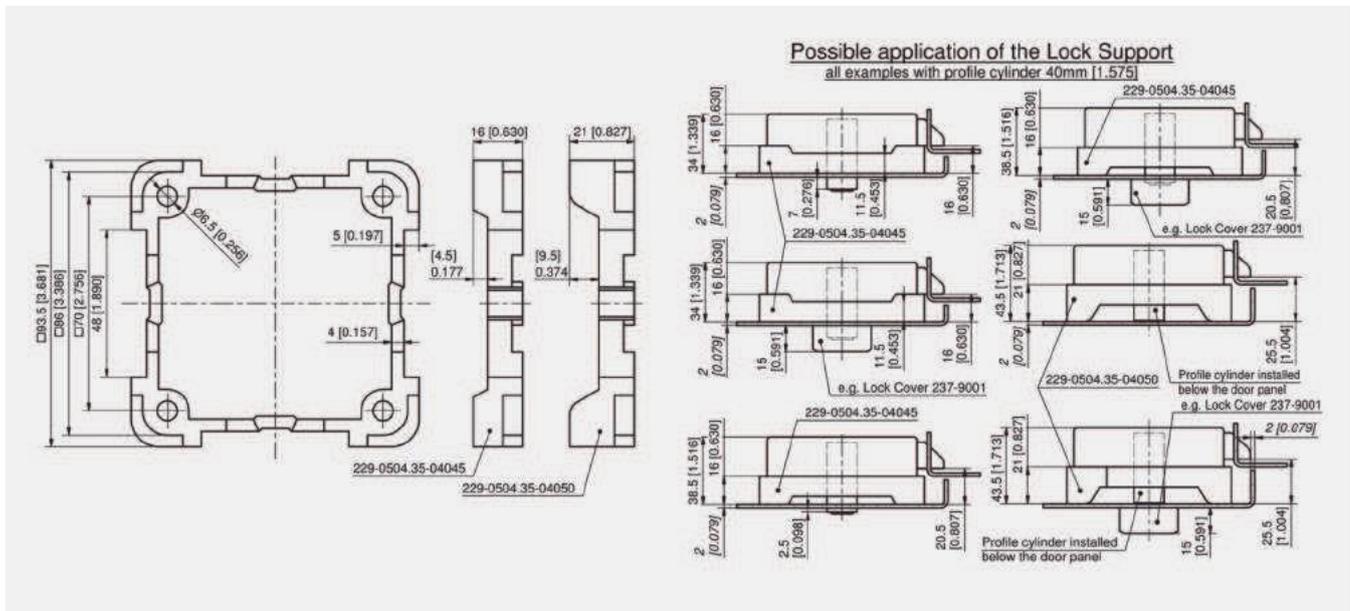
- Lock support 229-0504.35-04045 for bending of 11.5 or 16 mm.
- Lock support 229-0504.35-04050 for bending of 11.5 or 21 mm.

Material and surface

Lock support: zinc die, untreated



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Lock support for slam latch

Part Number	Bending	Material	Surface
229-0504.35-04045	11.5–16 mm	zinc die	untreated
229-0504.35-04050	11.5–21 mm	zinc die	untreated

SNAP

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Snap-lock SNAP-LINE, clip-in for door-thickness 0.8 mm to 2.0 mm (0.031 to 0.079)

Features

- This Snap-Lock device is especially suitable for latching of doors and lids.
- The Snap-Lock consists of two parts, housing and slam bolt.
- The bolt moves in the housing when you open it. This can't scratch the surface of the sheet metal.
- When the latch is released and in its final position a finger-tip grip becomes accessible to facilitate opening the door.

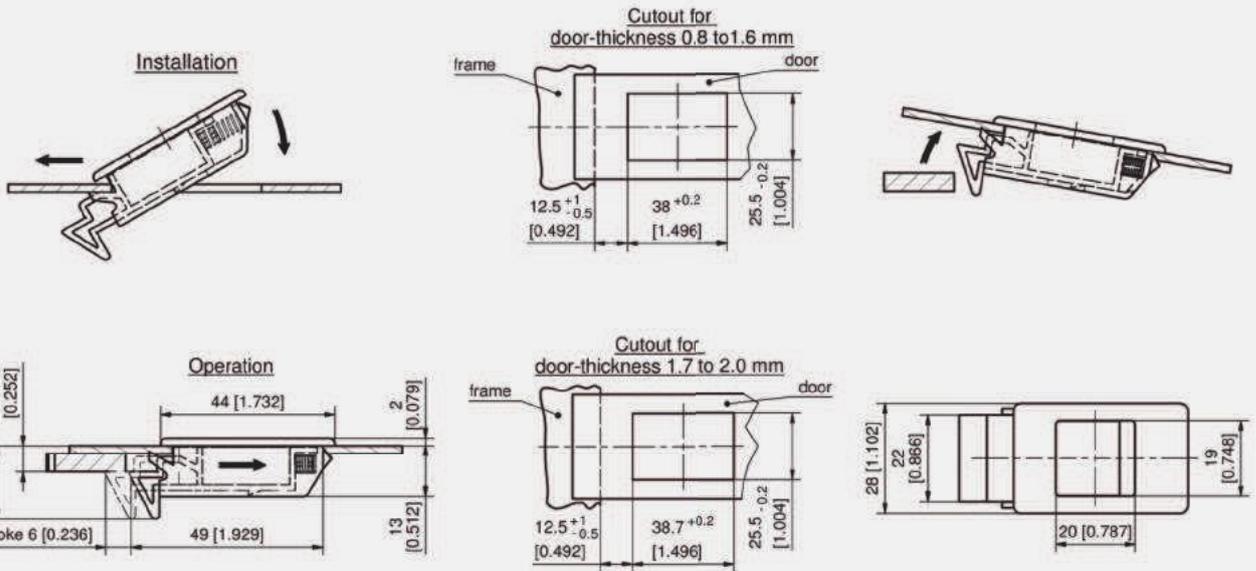
Material and surface

Slam bolt and housing: PA, black

Spring: stainless steel

Note

Vibration-proof.



Snap-lock

Part Number	Installation type	Door-thickness (S)
282-9001.00-00000	tool-less	0,8-2,0

Features

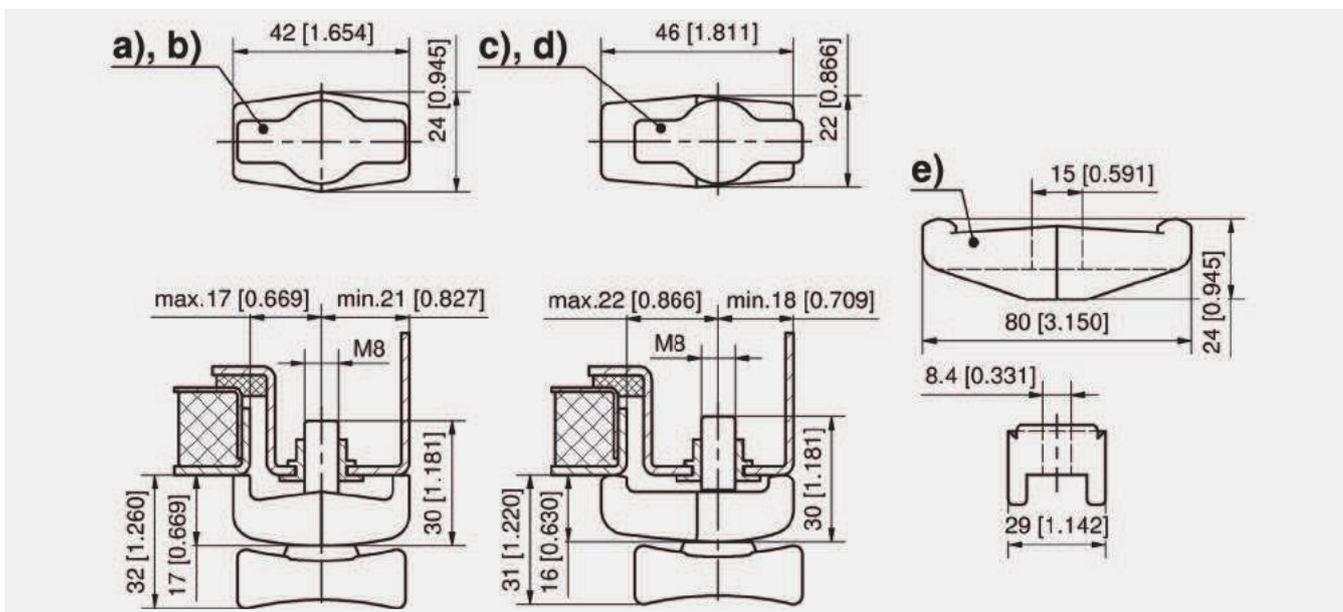
- Application in air conditioning technology.
- b) and d) captive by O-ring.

Material and surface

Bridge clamp: PA, black
Tommy screw: PA, black / steel, zinc plated



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Bridge clamp

	Part Number	Installation type	Version	Variant
a)	214-9002.00-00000	screw-on		symmetrical with screw M8
b)	214-9002.00-00001	screw-on	captive	symmetrical with screw M8
c)	214-9003.00-00000	screw-on		asymmetrical with screw M8
d)	214-9003.00-00001	screw-on	captive	asymmetrical with screw M8
e)	214-0103.03-00000	screw-on	for screws M8	symmetrical and reinforced for clamping two doors

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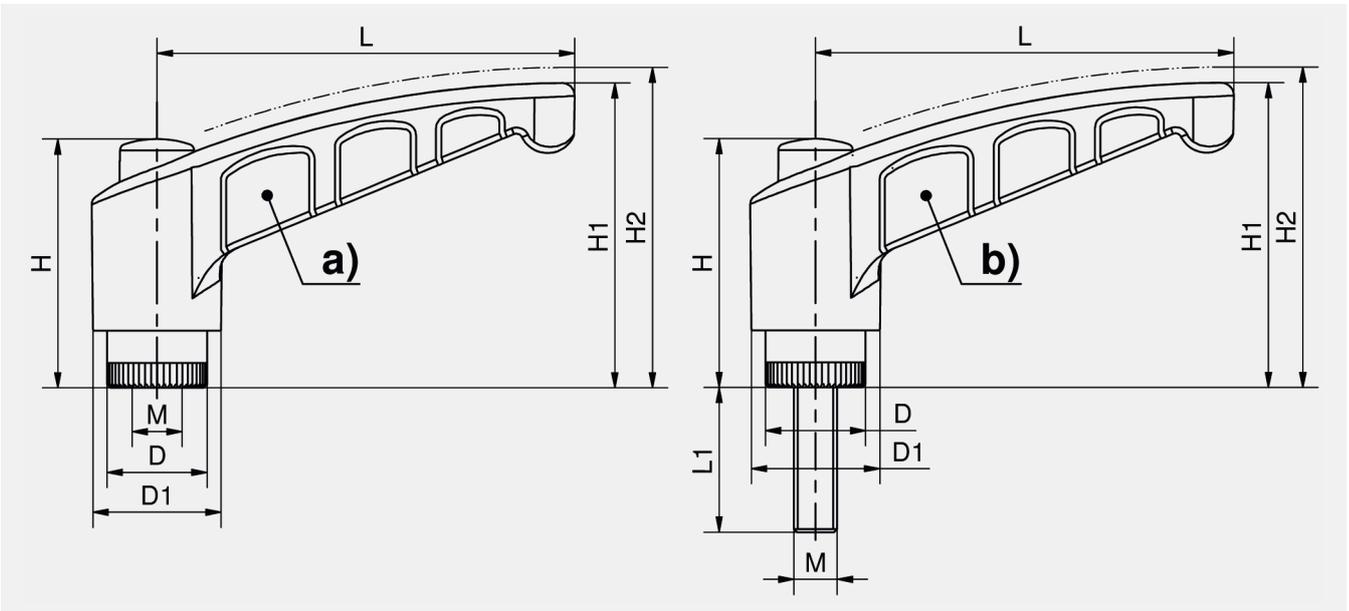
Secure and tool-less clamping of components.

Features

- Perfect adjustment option to reach the best clamping position by pressing down the push button.
- Automatic reset of the handle after releasing the button.

Material and surface

- Handle:** PA, black
- Bush:** brass
- Stud:** steel, zinc plated



Adjustable clamping lever with internal thread

	Part Number	M	L mm / inch	D mm / inch	D1 mm / inch	H mm / inch	H1 mm / inch	H2 mm / inch
a)	214-9101.00-00000	M5	45 / 1.772	12 / 0.472	15 / 0.591	29 / 1.142	34 / 1.339	37 / 1.457
a)	214-9102.00-00000	M6	45 / 1.772	12 / 0.472	15 / 0.591	29 / 1.142	34 / 1.339	37 / 1.457
a)	214-9103.00-00000	M8	65 / 2.560	16 / 0.630	20 / 0.787	36 / 1.417	45 / 1.772	48 / 1.890
a)	214-9104.00-00000	M10	80 / 3.150	19 / 0.748	23 / 0.906	46 / 1.811	56 / 2.205	59 / 2.323

Adjustable clamping lever with threaded stud

	Part Number	M	L mm / inch	L1 mm / inch	D mm / inch	D1 mm / inch	H mm / inch	H1 mm / inch	H2 mm / inch
b)	214-9101.00-00510	M5	45 / 1.772	10 / 0.394	12 / 0.472	15 / 0.591	29 / 1.142	34 / 1.339	37 / 1.457
b)	214-9102.00-00620	M6	45 / 1.772	20 / 0.787	12 / 0.472	15 / 0.591	29 / 1.142	34 / 1.339	37 / 1.457
b)	214-9102.00-00625	M6	45 / 1.772	25 / 0.984	12 / 0.472	15 / 0.591	29 / 1.142	34 / 1.339	37 / 1.457
b)	214-9103.00-00820	M8	65 / 2.560	20 / 0.787	16 / 0.630	20 / 0.787	36 / 1.417	45 / 1.772	48 / 1.890
b)	214-9103.00-00825	M8	65 / 2.560	25 / 0.984	16 / 0.630	25 / 0.984	36 / 1.417	45 / 1.772	48 / 1.890
b)	214-9103.00-00830	M8	65 / 2.560	30 / 1.181	16 / 0.630	20 / 0.787	36 / 1.417	45 / 1.772	48 / 1.890
b)	214-9104.00-01020	M10	80 / 3.150	20 / 0.787	19 / 0.748	23 / 0.906	46 / 1.811	56 / 2.205	59 / 2.323
b)	214-9104.00-01025	M10	80 / 3.150	25 / 0.984	19 / 0.748	23 / 0.906	46 / 1.811	56 / 2.205	59 / 2.323
b)	214-9104.00-01030	M10	80 / 3.150	30 / 1.181	19 / 0.748	23 / 0.906	46 / 1.811	56 / 2.205	59 / 2.323

Lever-actuated compression latch clip-in SNAP-LINE.

Features

- Release = lift lever and turn.
- Close = turn and fold lever down.
- When closed, the cam is held in place using detents.
- **SNAP-LINE version**
- The latch comes pre-assembled and can be installed into the cutout.
- (S) = 5 / 0.197 to 5.5 mm / 0.217
- **Screw-on version.**
- With the bridge and a M5 x 20 countersunk screw, a (S) -dimension of 0 to 3.5 mm / 0 to 0.138 inch can be achieved.

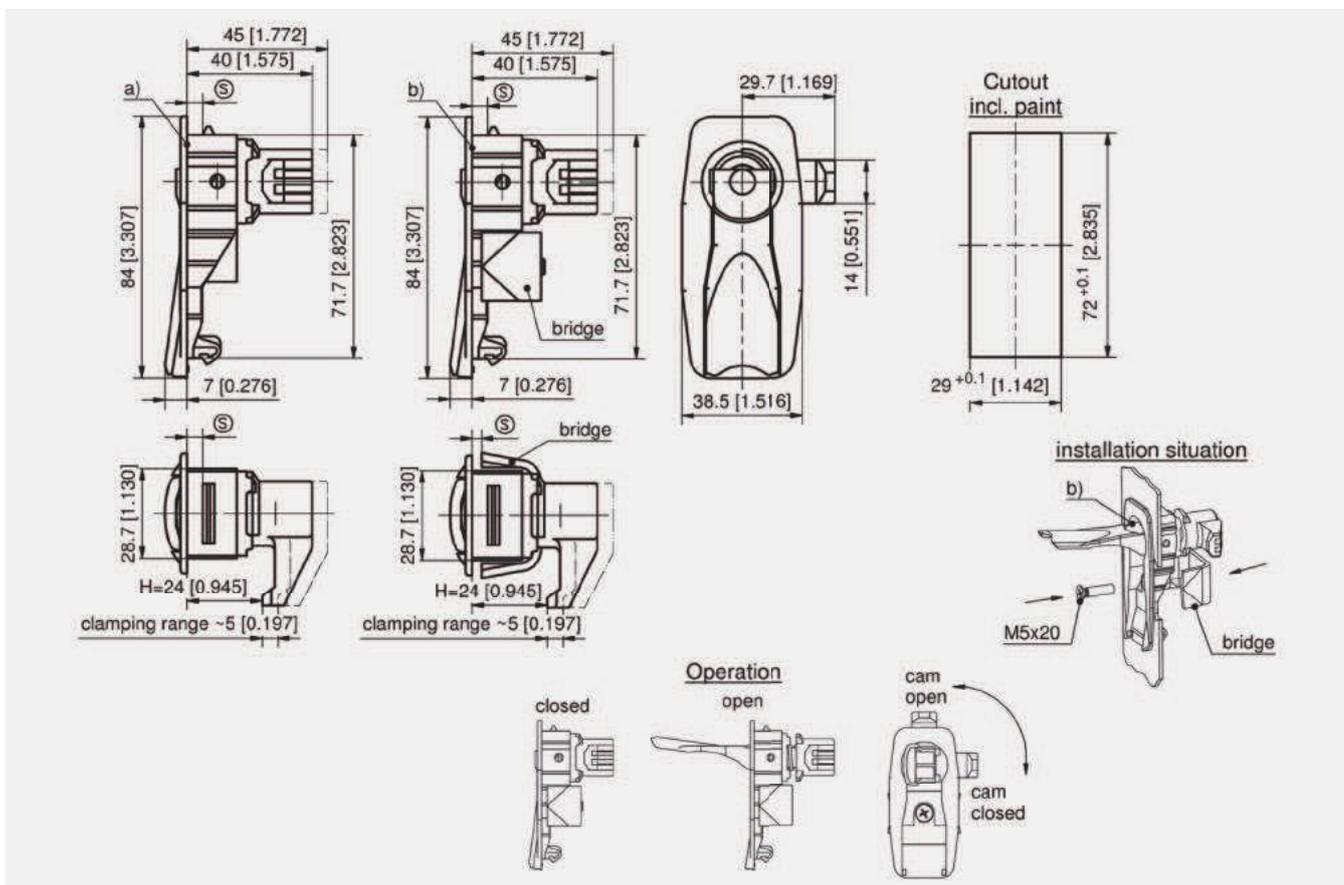
Material and surface

- Compression latch:** PA
- Spring:** spring steel
- Pin, bridge and screw:** steel, zinc plated



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SNAP



Compression Latch, SNAP-LINE

	Part Number	Installation type	Compression	Clamping range	H-dimension	Version
a)	282-9008.00-00000	tool-less	Yes	5	24	left door
a)	282-9009.00-00000	tool-less	Yes	5	24	right door

Compression Latch, screw-on version

	Part Number	Installation type	Compression	Clamping range	H-dimension	Version
b)	282-9010.00-00000	screw-on	Yes	5	24	left door
b)	282-9011.00-00000	screw-on	Yes	5	24	right door

SNAP

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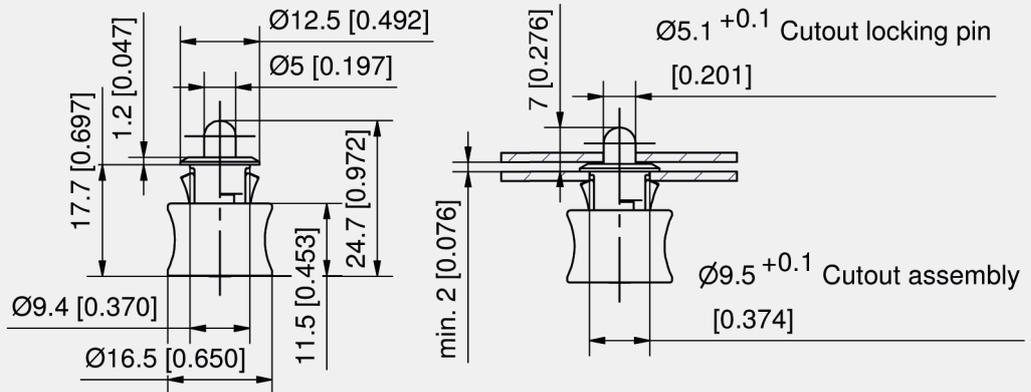
Lids and covers can be stopped and locked at predetermined positions.

Features

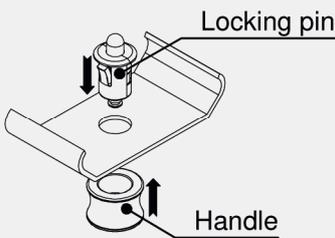
- Locking pin with spring-loaded handle.
- Installed using a simple push into the cutout.
- Can be used as a locking device for drawers.
- Large, ergonomically designed handle for ease of use.
- Also available as concealed hinge, see product-system 4-393SL.

Material and surface

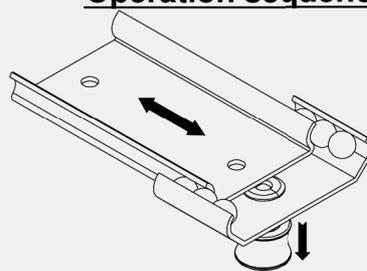
- Housing:** PA, black
- Handle:** PA, green
- Pin:** steel, zinc plated
- Spring:** steel, zinc plated



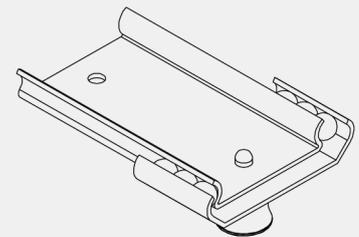
Operation sequence



To install, the locking pin is simply pushed into the cutout without the use of tools or hardware. The handle slides over the housing and secures permanently into the groove of the pin.



To lock, the spring-loaded handle is released. To loosen, the spring-loaded handle is pulled out.



The pin catches in the pre-punched holes to lock in place.

Locking pin with handle

Part Number	Installation type	Clamping range
245-9304.00-00000	tool-less	1,4 – 1,6

Features

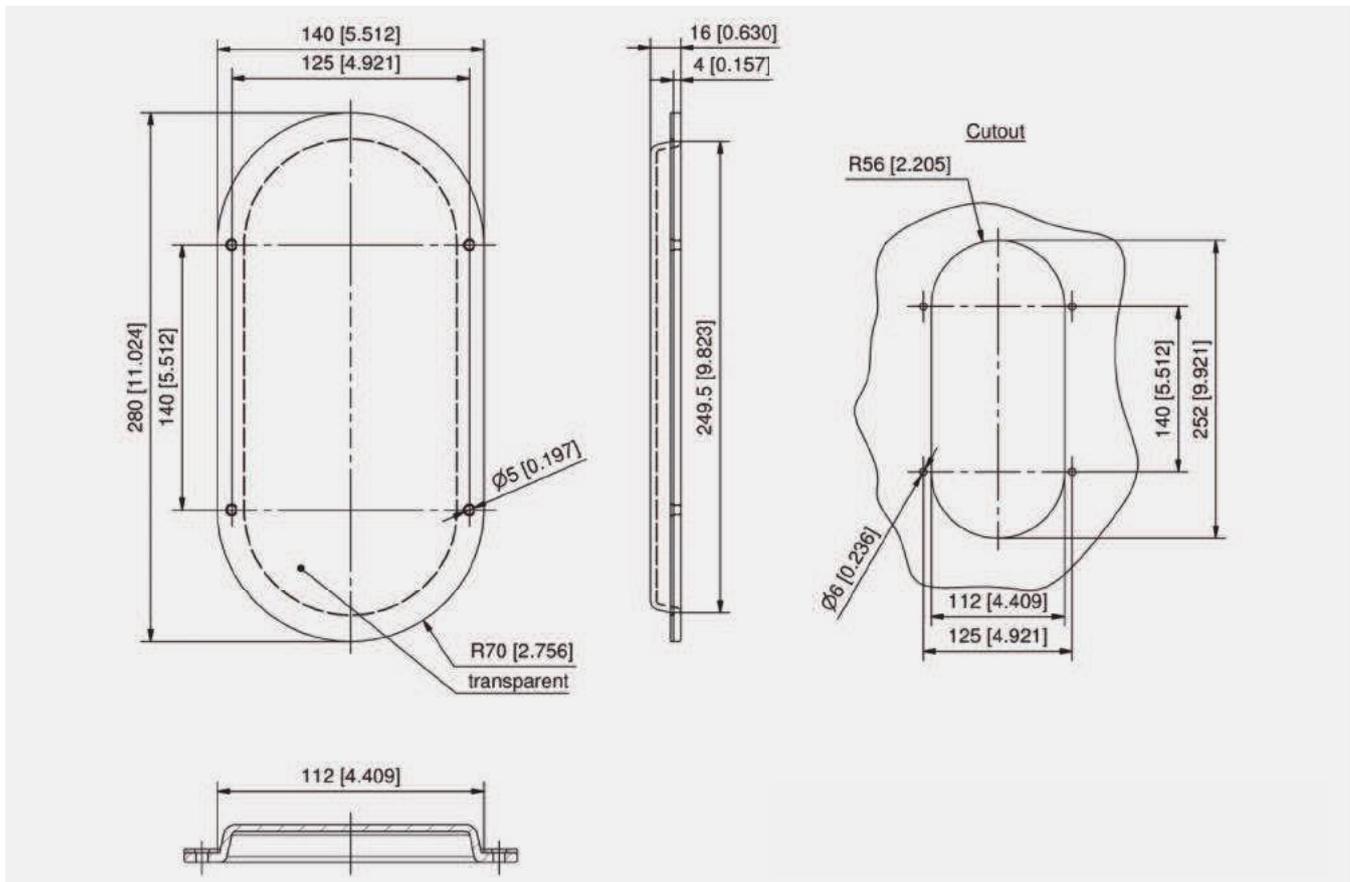
- Self-adhesive seal.
- 4 holes for flat head screw M5.

Material and surface

Window: polycarbonate PC
Self-adhesive seal: EPDM, cell sponge rubber

IP 65

RoHS WEEE



Window

Part Number	Shape	Fastening	Cutout	Width	Height
251-9101.00-00000	oval	self-adhesive/screw-on	112 x 252	140	280

RoHS
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Locking bar system for heavy doors.

Features

- Both ends come ready to be connected to the handle mechanism.
- By cutting the bar, the handle mechanism can be installed in any position.

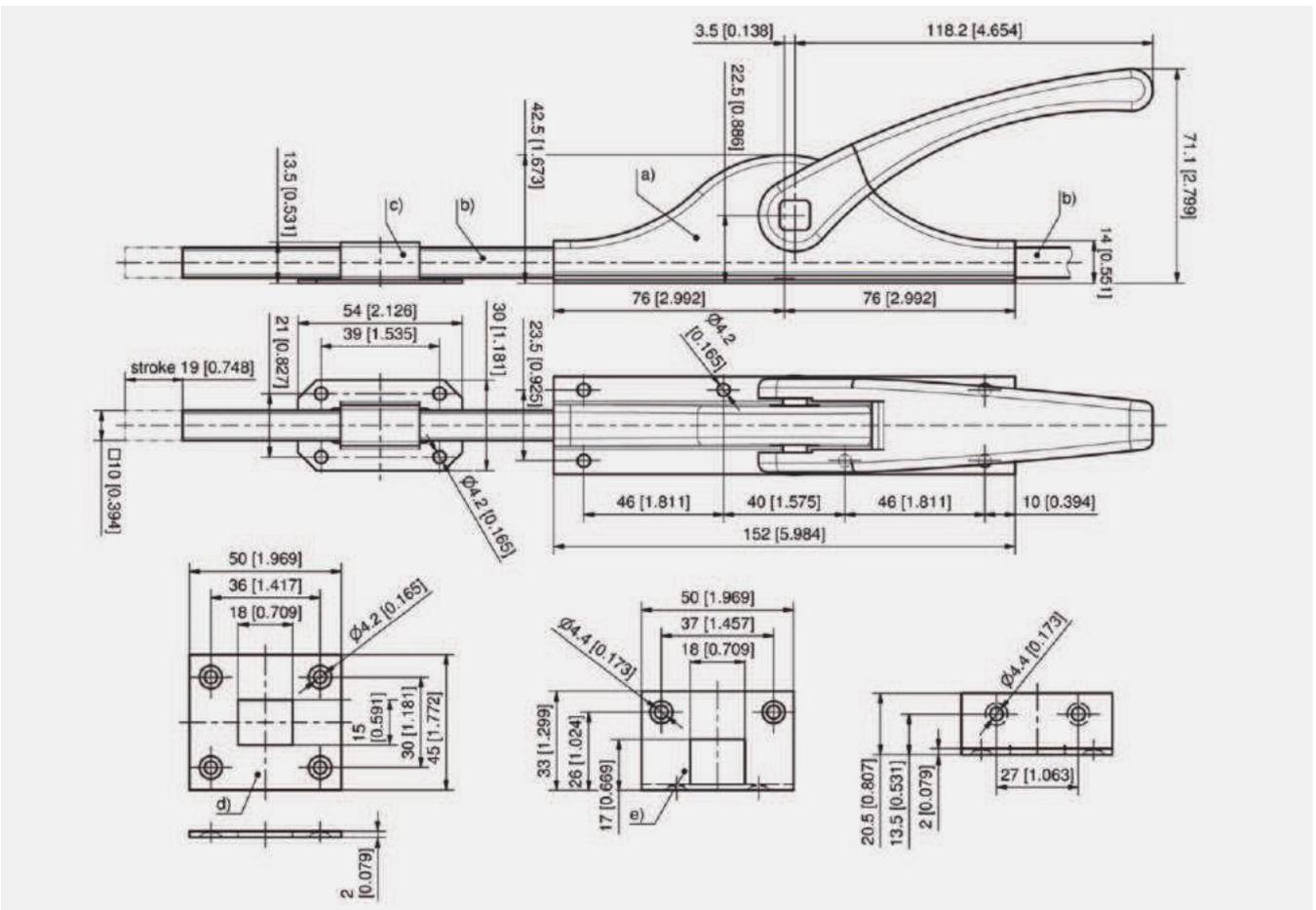
Material and surface

Handle mechanism with base plate, bar guides and bars: steel, zinc plated

Note

Included in the scope of delivery: Locking bar system incl. base plate and 2 rod guides

Please order separately: Rod one-piece



Locking bar system incl. base plate and 2 rod guides

Part Number	Installation type	Multi-point latch
a) 249-9005.00-00000	screw-on	Yes
* 249-0502.00-00000	Rod for locking bar system, 2000 mm	
249-0503.00-00000	Rod for locking bar system, 2500 mm	
249-0504.00-00000	Rod for locking bar system, 3000 mm	
249-0401.00-00000	Rod guide	
249-0201.00-00000	Bottom plate, straight	
249-0301.00-00000	Bottom plate, angled	
249-0601.00-00000	Bar latching bushing for concrete, 2 parts	

Locking bar system for heavy doors.

**RoHS
WEEE**

Features

- Both ends come ready to be connected to the handle mechanism.
- By cutting the bar, the handle mechanism can be installed in any position.

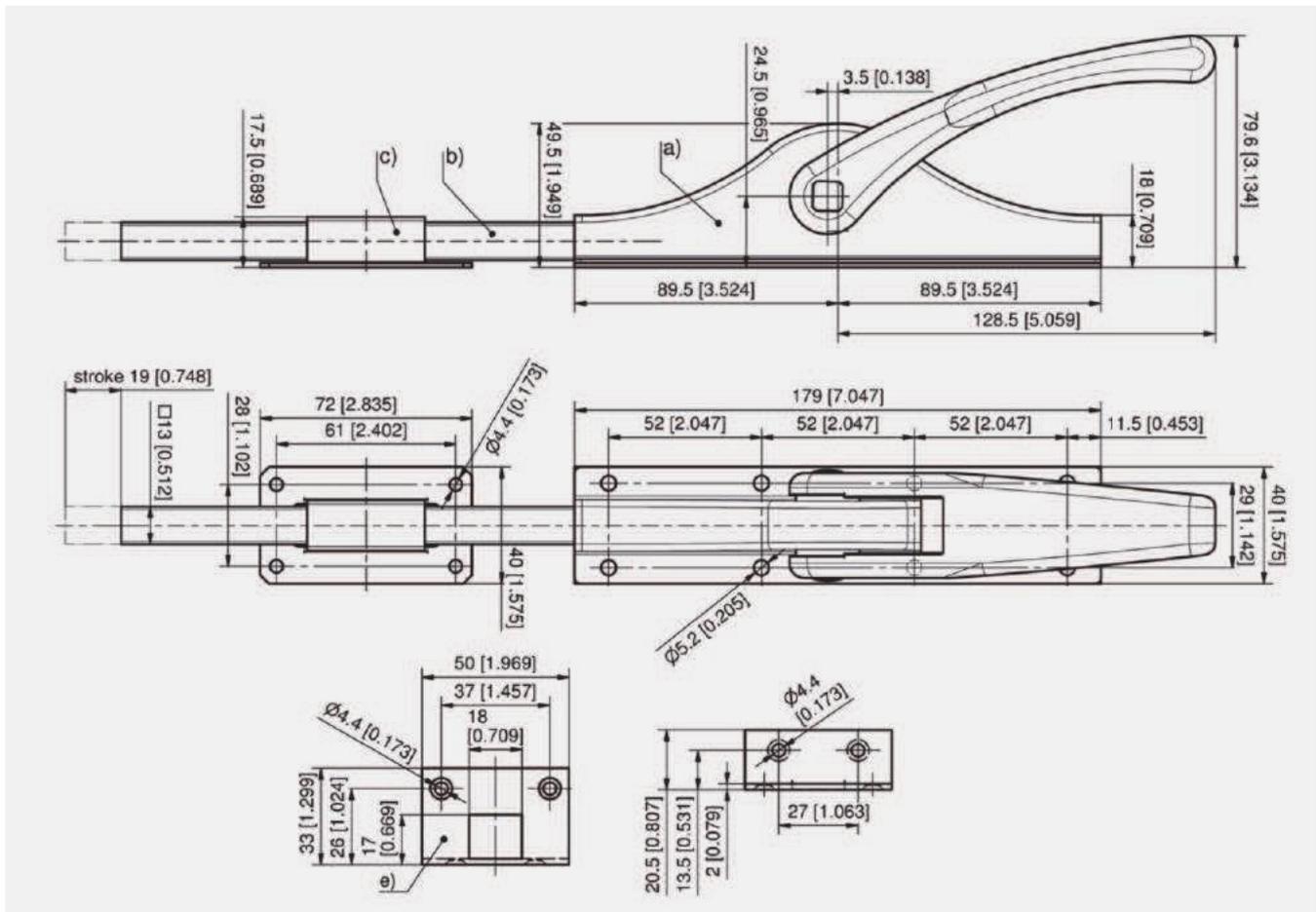
Material and surface

Handle: aluminium
Bolt box, base plate, bar guides and bars: steel, zinc plated

Note

Included in the scope of delivery:
 Locking bar system incl. base plate and 3 rod guides

Please order separately:
 Rod one-piece



Locking bar system incl. base plate and 3 rod guides

Part Number	Installation type	Multi-point latch
a) 249-9105.00-00000	screw-on	Yes
* 249-0505.00-00000	Rod for locking bar system, 2000 mm	
* 249-0506.00-00000	Rod for locking bar system, 2500 mm	
* 249-0507.00-00000	Rod for locking bar system, 3000 mm	
* 249-0402.00-00000	Rod guide	
* 249-0202.00-00000	Bottom plate, straight	
* 249-0301.00-00000	Bottom plate, angled	
* 249-0602.00-00000	Bar latching bushing for concrete, 2 parts	

RoHS
WEEE



Locking bar system for heavy doors.

Features

- Both ends come ready to be connected to the handle mechanism.
- By cutting the bar, the handle mechanism can be installed in any position.

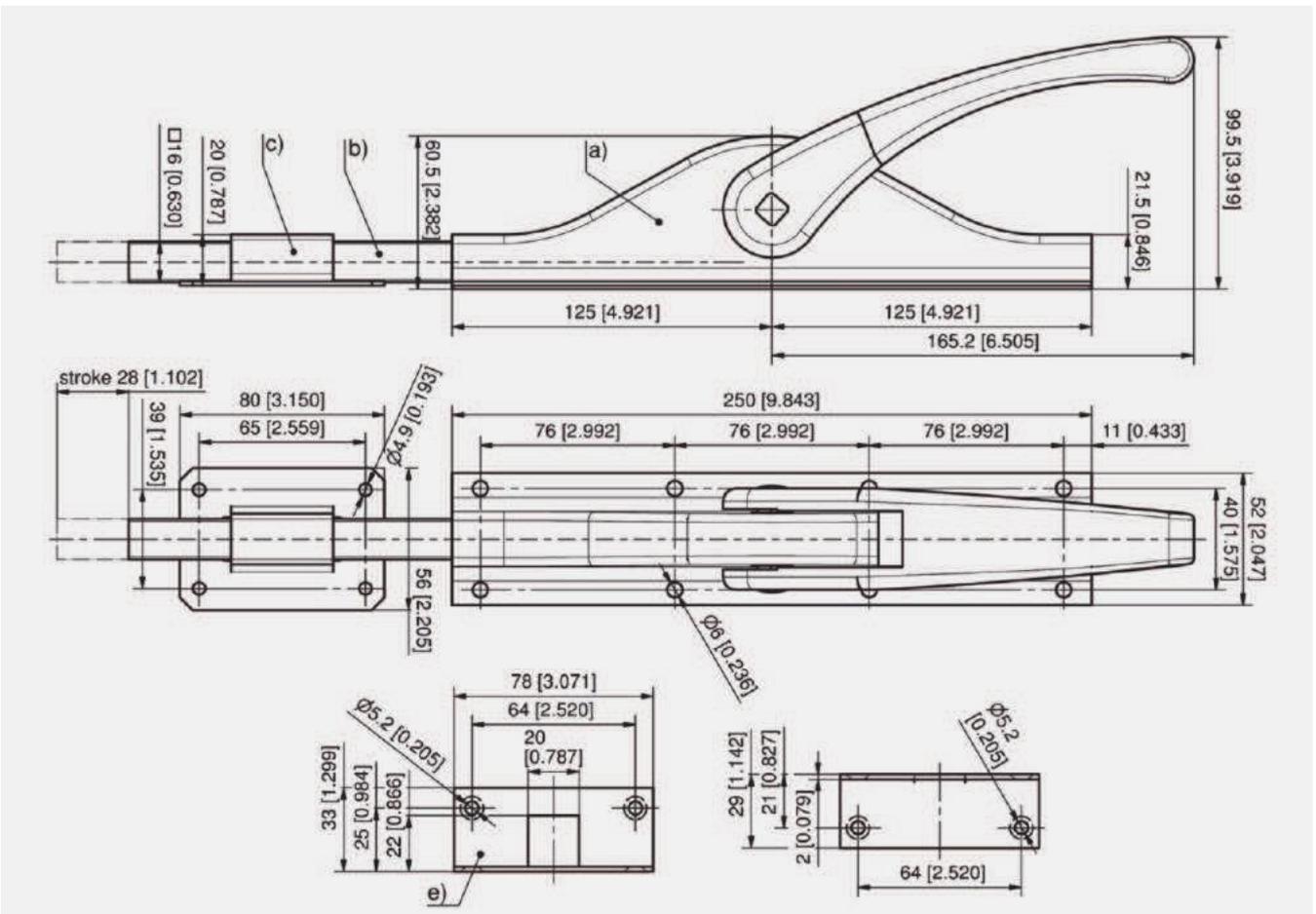
Material and surface

Handle: aluminium
Bolt box, base plate, bar guides and bars: steel, zinc plated

Note

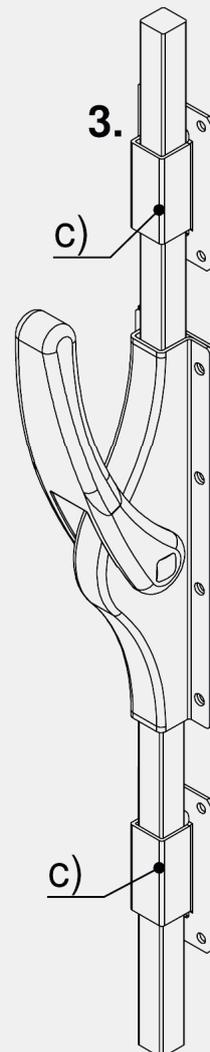
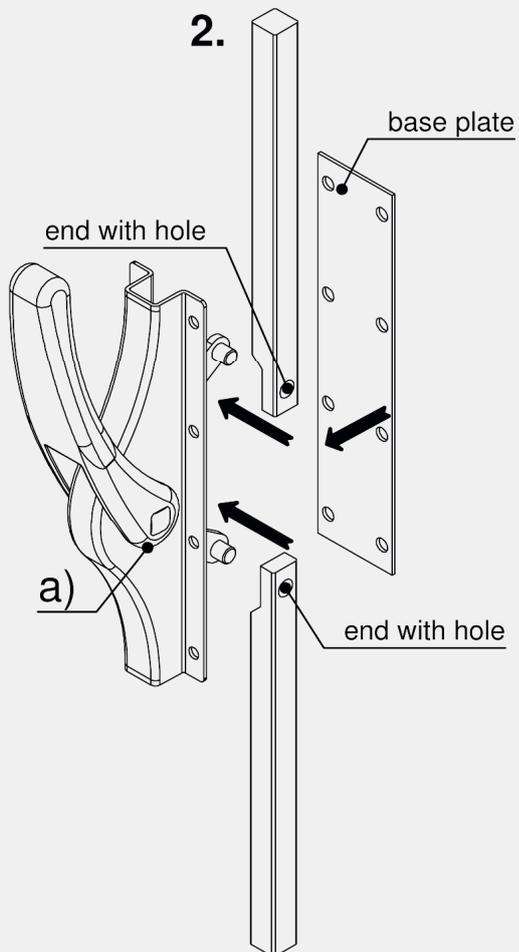
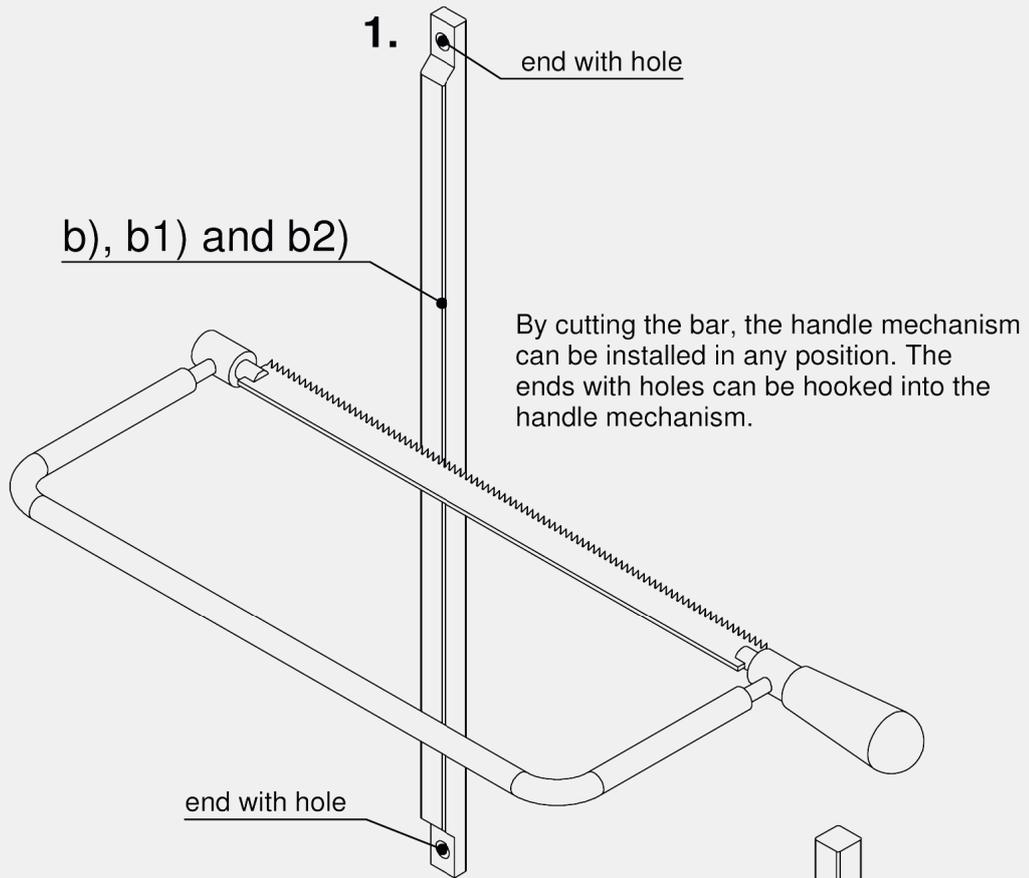
Included in the scope of delivery:
 Locking bar system incl. base plate and 4 rod guides

Please order separately:
 Rod one-piece



Locking bar system incl. base plate and 4 rod guides

Part Number	Installation type	Multi-point latch
a) 249-9205.00-00000	screw-on	Yes
* 249-0508.00-00000	Rod for locking bar system, 2000 mm	
249-0509.00-00000	Rod for locking bar system, 2500 mm	
249-0510.00-00000	Rod for locking bar system, 3000 mm	
249-0403.00-00000	Rod guide	
249-0203.00-00000	Bottom plate, straight	
249-0304.00-00000	Bottom plate, angled	
249-0603.00-00000	Bar latching bushing for concrete, 2 parts	





DIN 61373

IP 65

RoHS WEEE



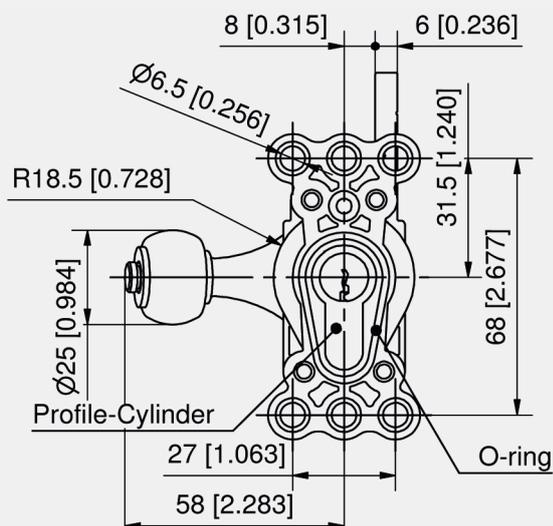
This patented unique compression latch PHZ combines design and functionality and provides a smooth closing action.

Features

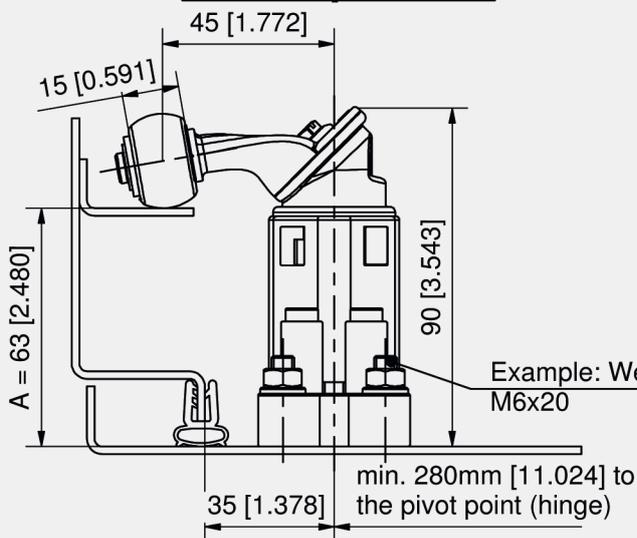
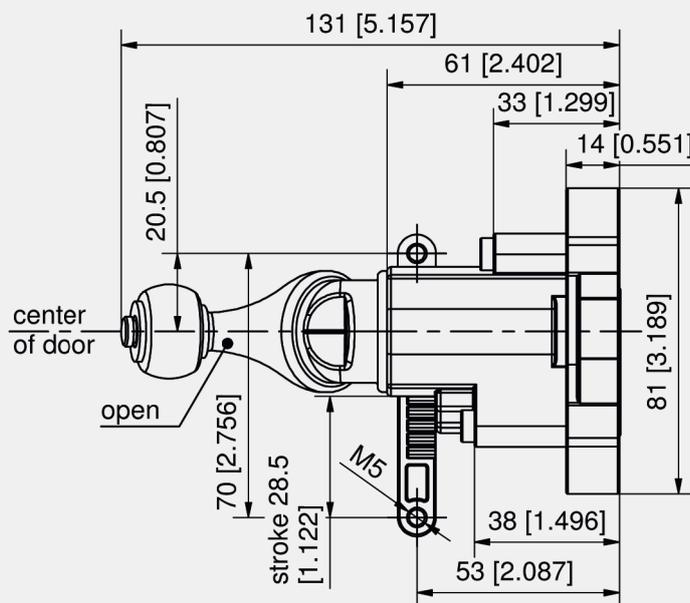
- Compression 10-20 mm.
- No protruding handle or knob.
- The key inserted into the profile-cylinder opens and closes the lock according to DIN 18252.
- Closing- and opening operation 180°.
- The key is removable only in the locked position.
- Version DIN RH (as shown). Version DIN LH on request.
- 1300N of force at the latching point.

Material and surface

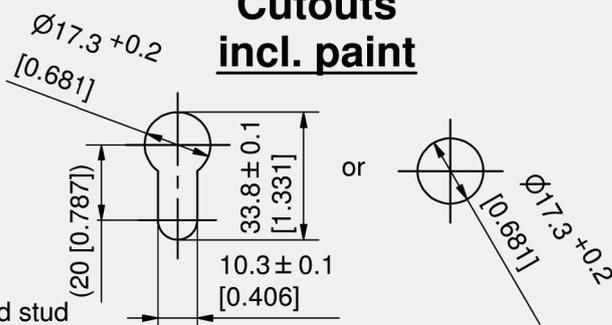
- Housing, housing cover, slider and cam:** zinc die, zinc plated
- Roller:** POM, black
- Washer, retaining clip and fastening screws:** steel, zinc plated
- Shoulder bolt:** stainless steel
- Gear cover:** PA6, black
- O-rings:** NBR, black
- Flat external seal:** EPDM, black



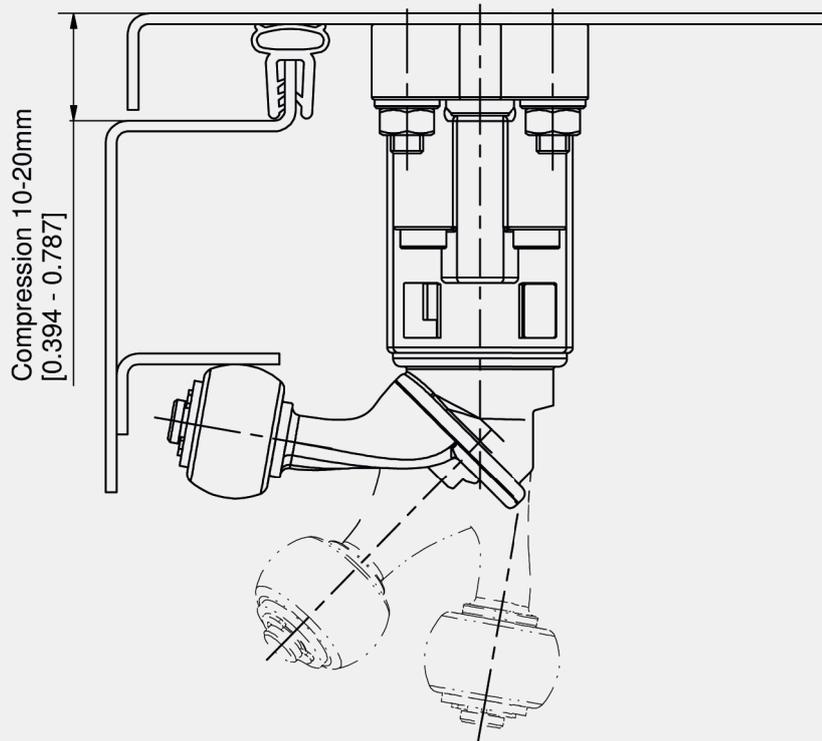
Example of application closed position



Cutouts incl. paint



Operation



Compression latch PHZ (internal)

Part Number	Installation type	A-dimension	1-point cam	Version	Compression
448-9112.00-00020	screw-on	63	Yes	with cam 20	yes
*	211-9001.00-00000	Profile-cylinder, keyed different			
	211-9002.00-00000	Profile-cylinder, keyed alike			

- 
- DIN 61373**
- 
- IP 65**
- RoHS WEEE**



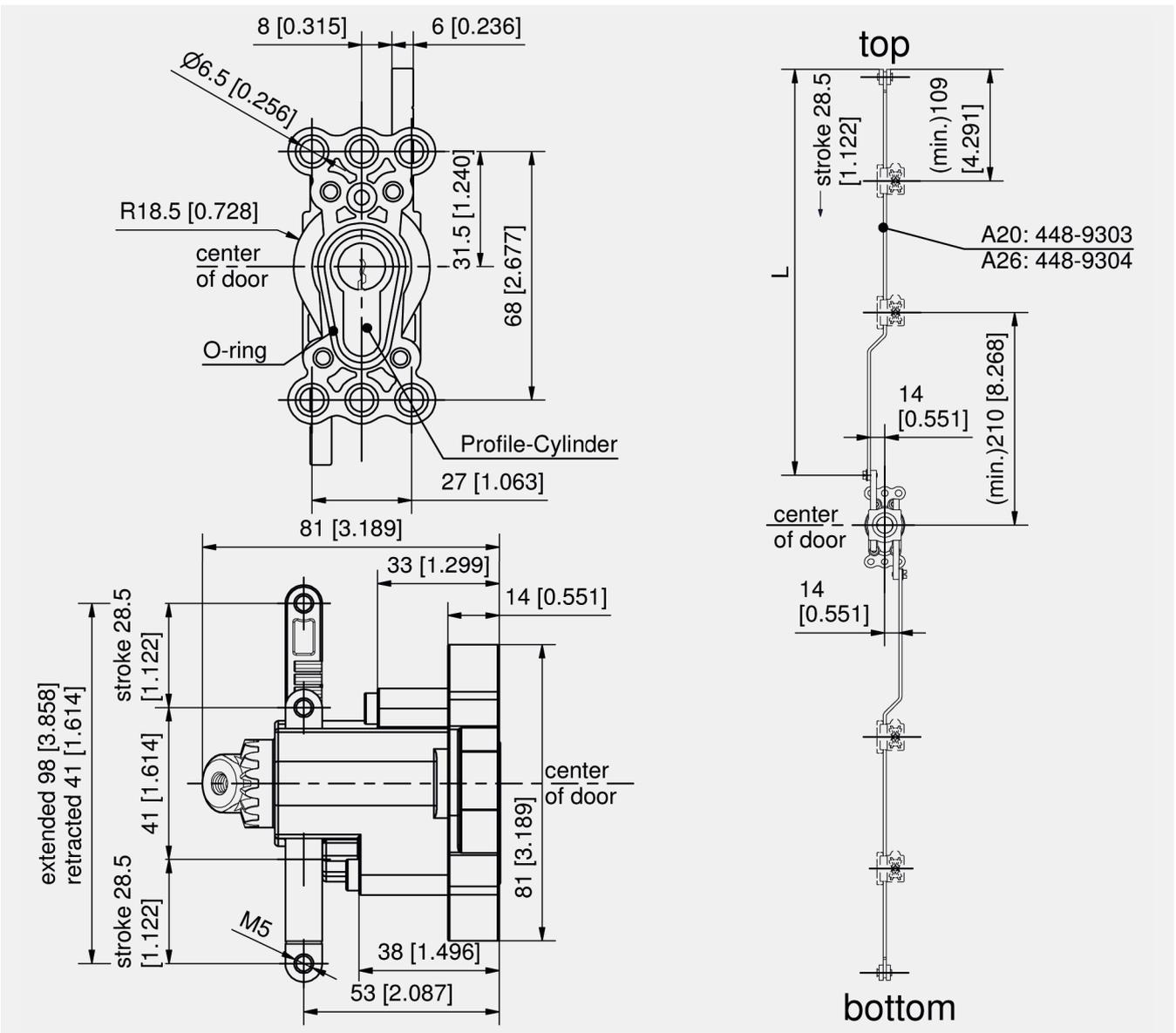
This patented unique 2-point latch PHZ combines design and functionality and provides a smooth closing action.

Features

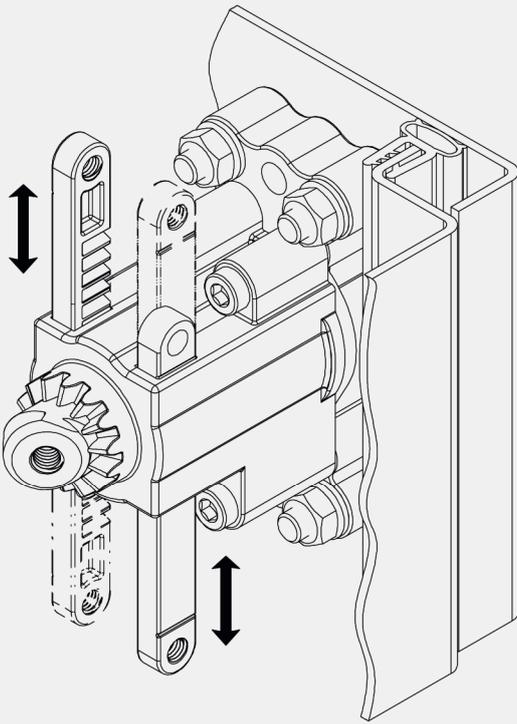
- No protruding handle or knob.
- Perfectly suited to control flat rods.
- The key inserted into the profile-cylinder opens and closes the lock according to DIN 18252.
- Closing- and opening operation 180°.
- The key is removable only in the locked position.
- IP65 according to DIN EN 60529.
- Version DIN RH (as shown).
Version DIN LH on request.

Material and surface

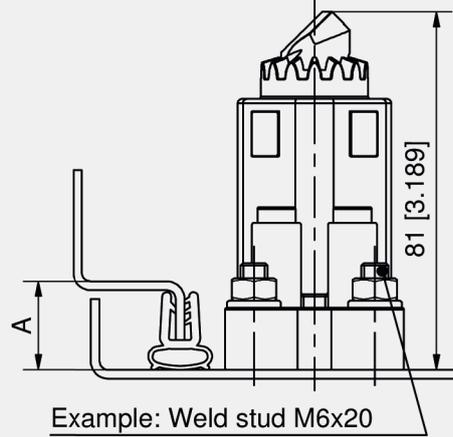
- Housing, housing cover and slider:** zinc die, zinc plated
- Screws:** steel, zinc plated
- O-rings:** NBR, black
- Flat external seal:** EPDM, black
- Flat rod:** steel, zinc plated



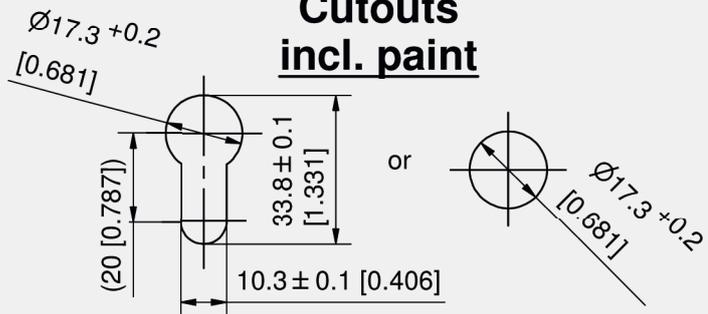
Operation



Example of application



**Cutouts
incl. paint**



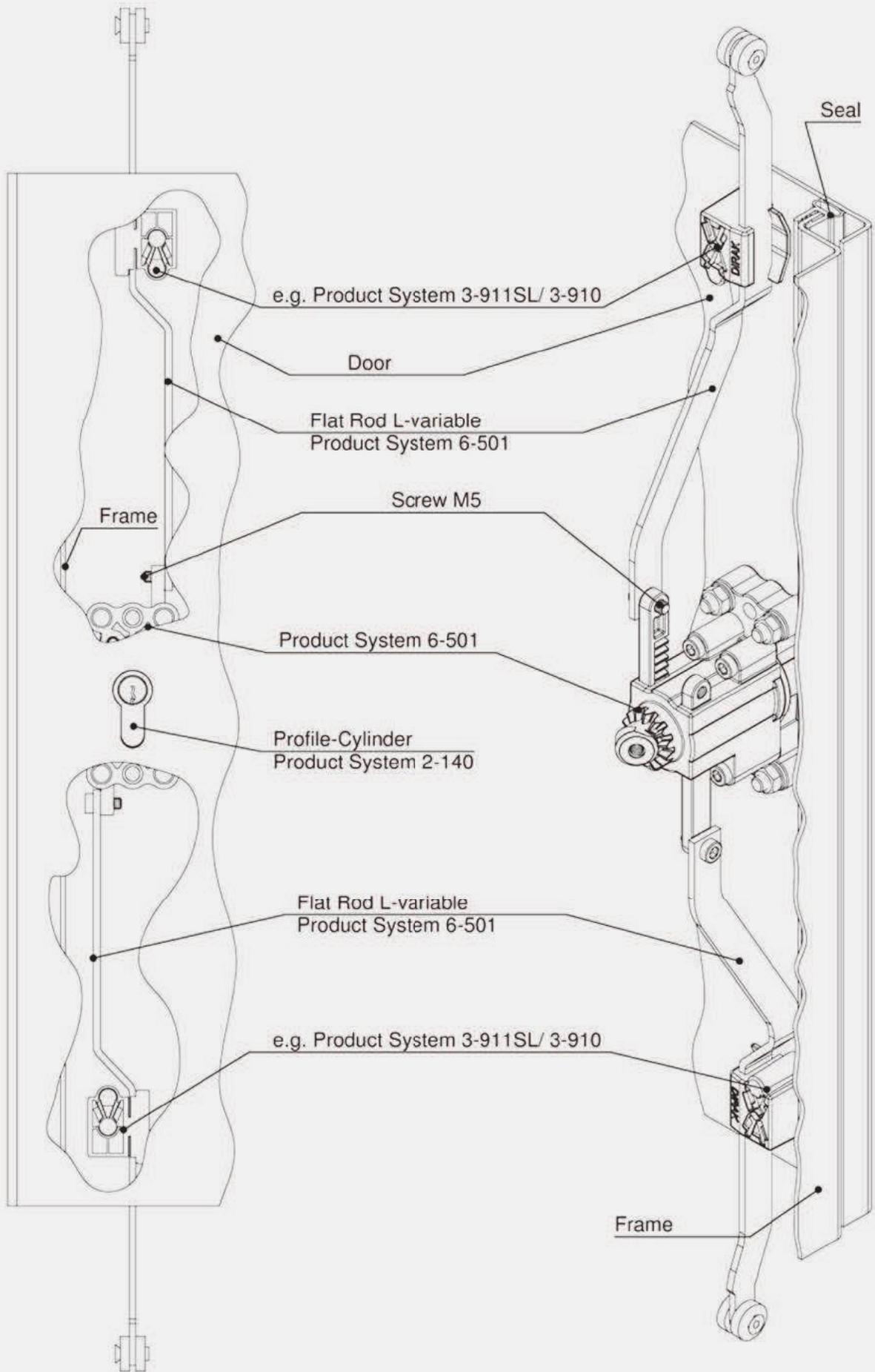
Rod formular:

$$L = \frac{\text{clearance of the cabinet} - 10\text{mm [0.394] (tolerance)} - 41 \text{ (Rod Latch System in retraced condition)}}{2}$$

2-point latch PHZ (internal)

Part Number	Multi-point latch	Version
448-9119.00-00000	Yes	for flat rods
* 211-9001.00-00000		Profile-cylinder, keyed different
211-9002.00-00000		Profile-cylinder, keyed alike
448-9303.00-Lxxmm		Flat rod A20, variable length
448-9304.00-Lxxmm		Flat rod A26, variable length

for 2-point latch PHZ 6-501 and flat rods with rollers





Compression Rod Latch
on page 72.

- 
- 
- IP 65**
- RoHS WEEE**



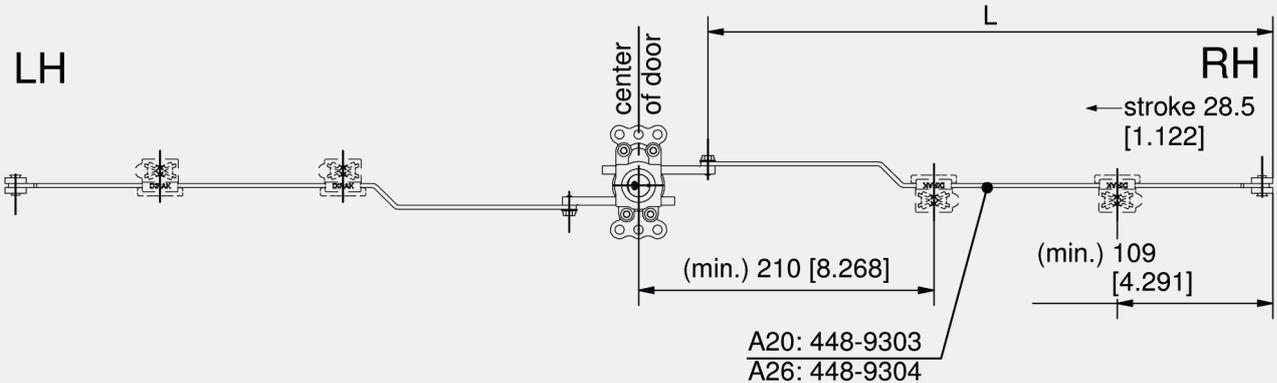
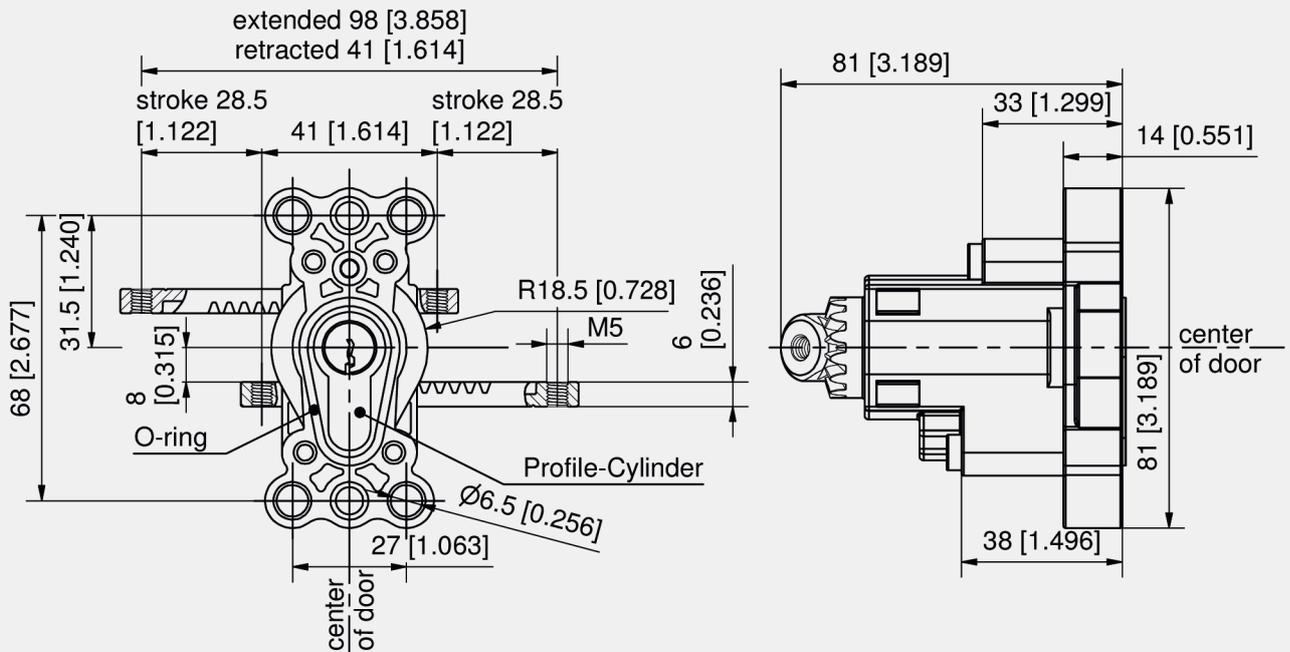
This patented unique 2-Point Latch PHZ combines design and functionality and provides a smooth closing action.

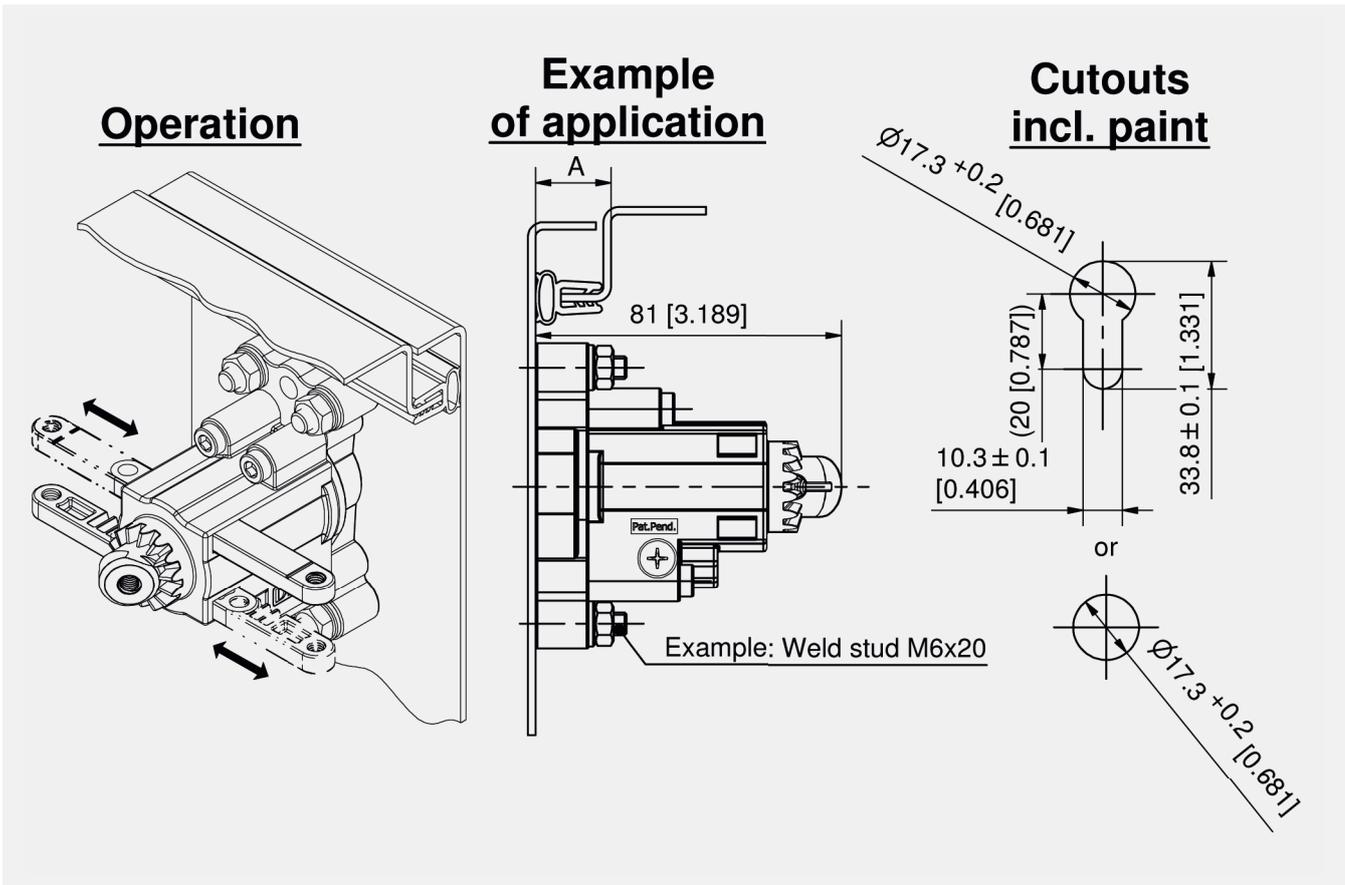
Features

- No protruding handle or knob.
- Perfectly suited to control flat rods.
- The key inserted into the profile-cylinder opens and closes the lock according to DIN 18252.
- Closing- and opening operation 180°.
- The key is removable only in the locked position.
- IP65 according to DIN EN 60529.
- Version DIN RH (as shown). Version DIN LH on request.

Material and surface

- Housing, housing cover and slider:** zinc die, zinc plated
- Screws:** steel, zinc plated
- O-rings:** NBR, black
- Flat external seal:** EPDM, black
- Flat rod:** steel, zinc plated

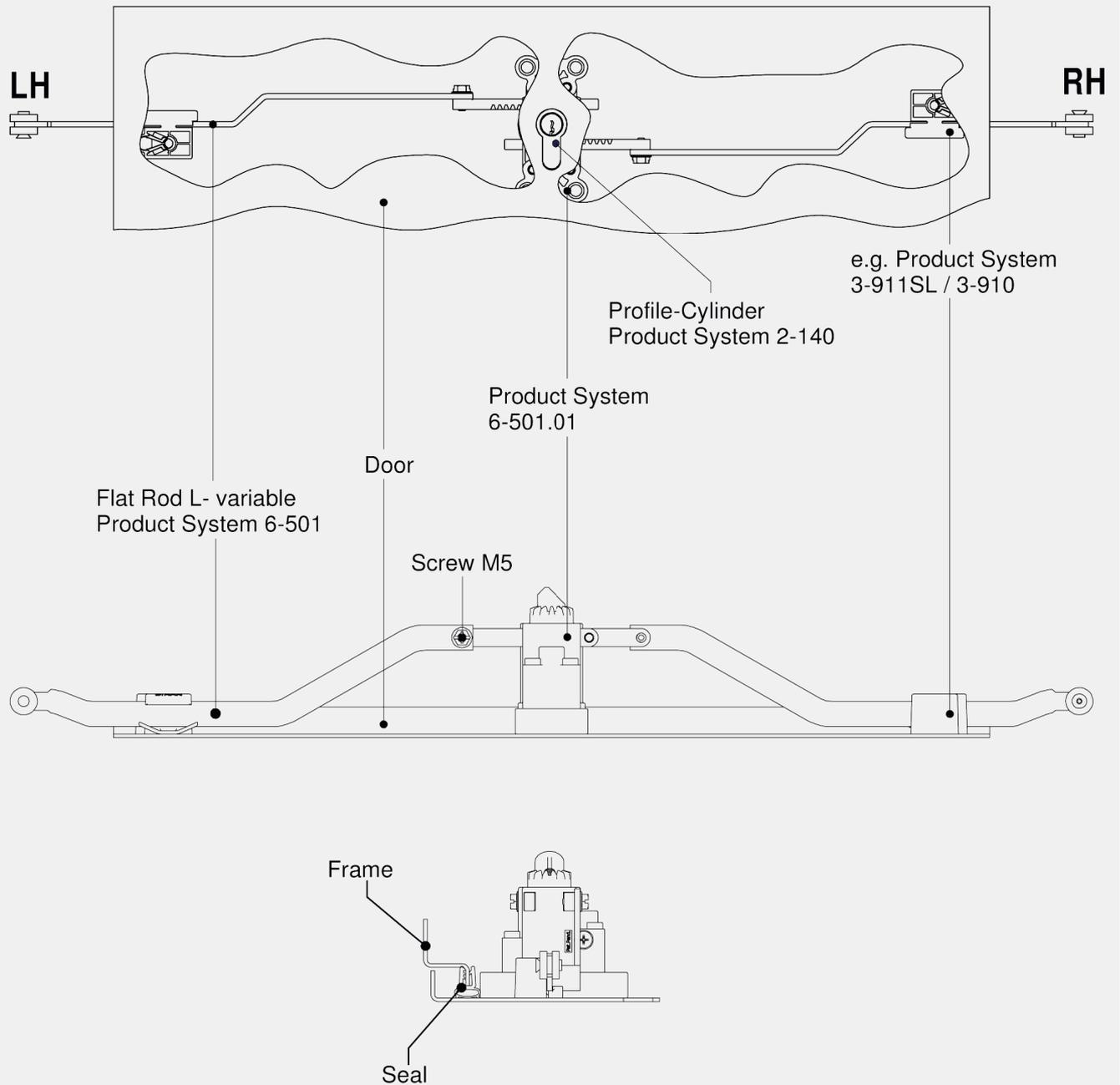


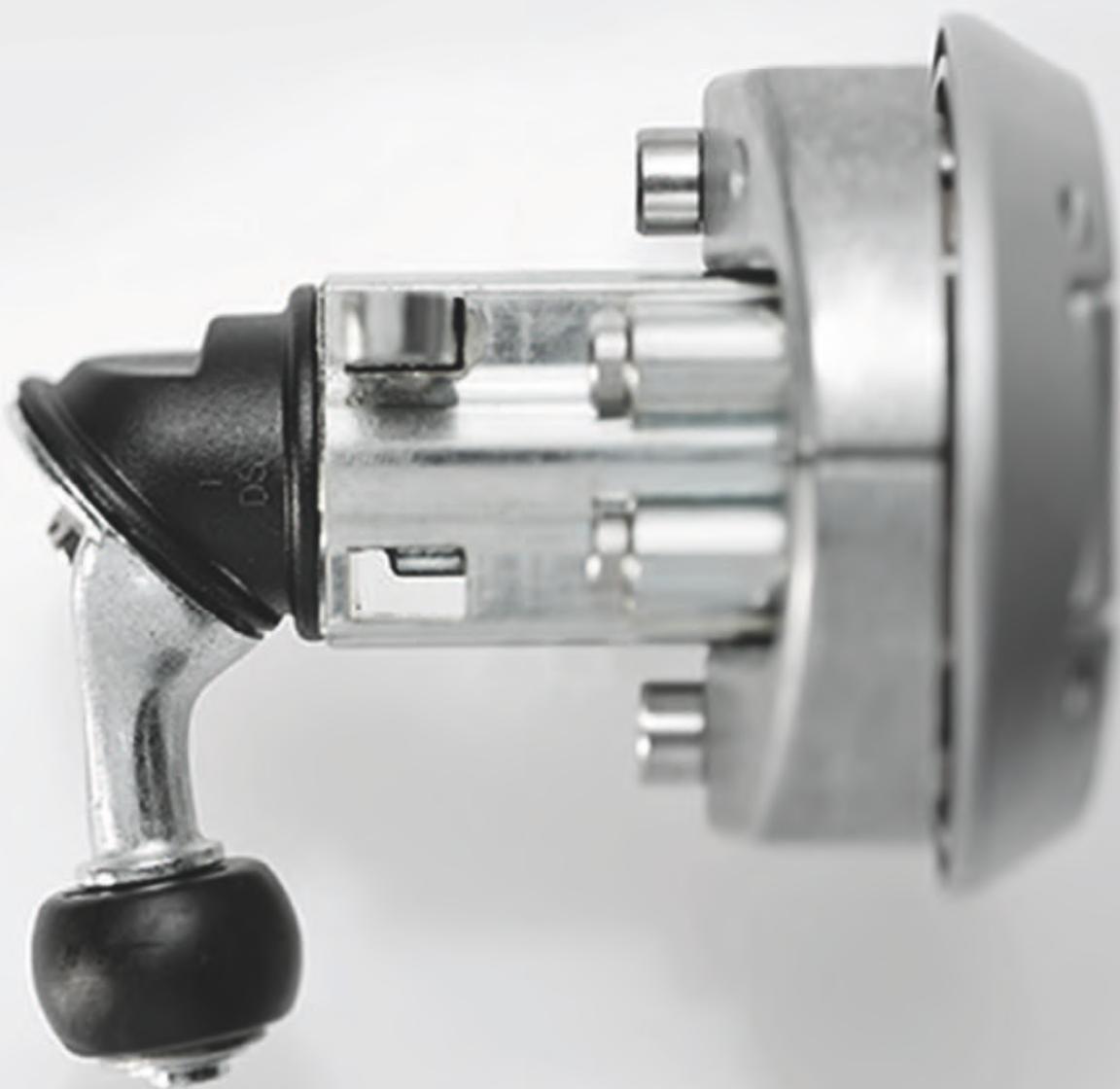


2-point latch PHZ (internal)

Part Number	Multi-point latch	Version
448-9125.00-00000	Yes	for flat rods
* 211-9001.00-00000		Profile-cylinder, keyed different
211-9002.00-00000		Profile-cylinder, keyed alike
448-9303.00-Lxxmm		Flat rod A20, variable length
448-9304.00-Lxxmm		Flat rod A26, variable length

for 2-point latch PHZ 6-501.01 and flat rods with rollers, horizontal





Compression Latch PHZ
with Lock Cover on page 128.

- 
- DIN 61373**
- 
- IP 65**
- RoHS WEEE**



Patented unique compression latch with ergonomically designed lock cover and magnet supported cylinder flap.

Features

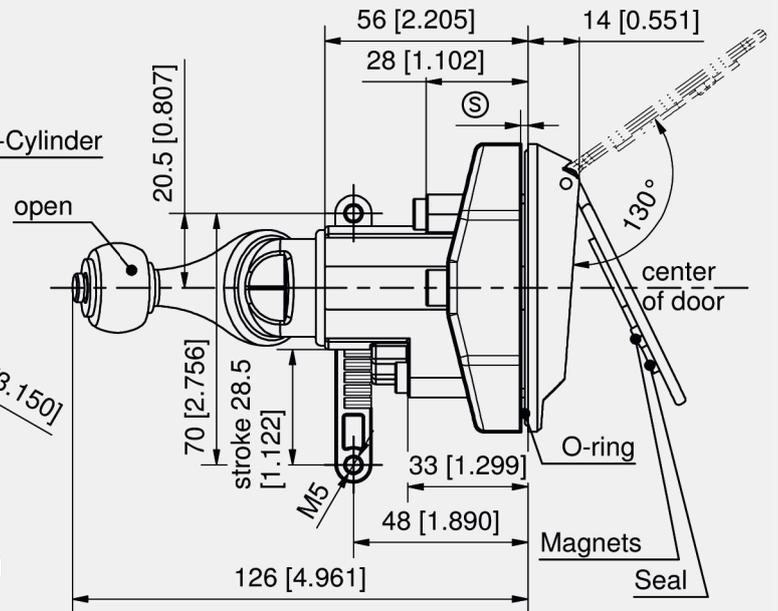
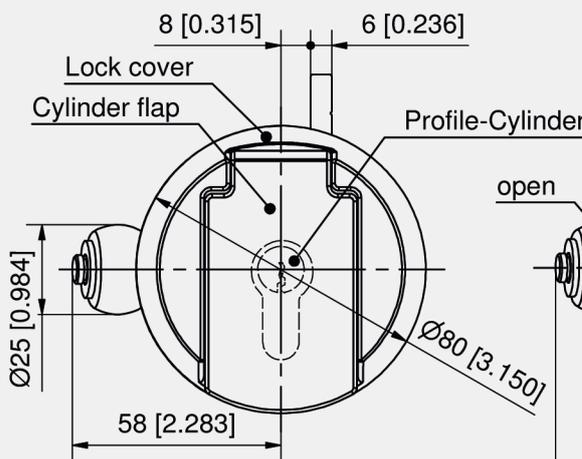
- Compression 10–20 mm.
- The key inserted into the profile-cylinder opens and closes the lock according to DIN 18252.
- Closing- and opening operation 180°.
- The key is removable only in the locked position.
- 1300N of force at the latching point.
- Grounding with set screw DIN 914 (incl.).
- IP65 according to DIN EN 60529.
- Version DIN RH (as shown), Version DIN LH on request.

Material and surface

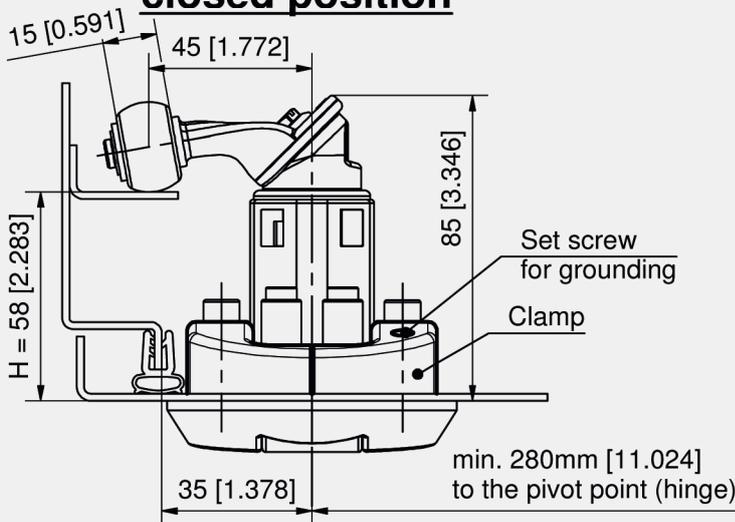
- Housing, slider and cam:** zinc die, zinc plated
- Lock cover:** zinc die, matt chrome plated
- Clamp:** zinc die, untreated
- Seal:** CR / NBR
- Roller:** POM, black
- Washer, retaining clip, fastening screws and set screw:** steel, zinc plated
- Shoulder bolt:** stainless steel
- Gear cover:** PA6, black

Note

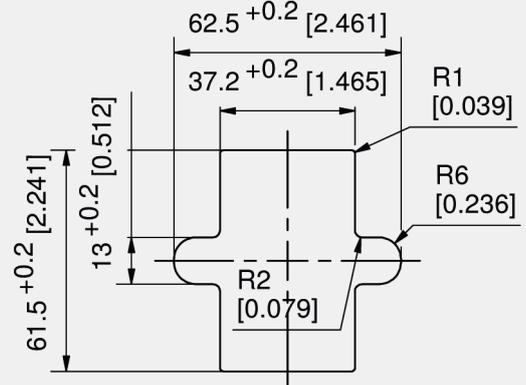
(S) = max. 3 mm.



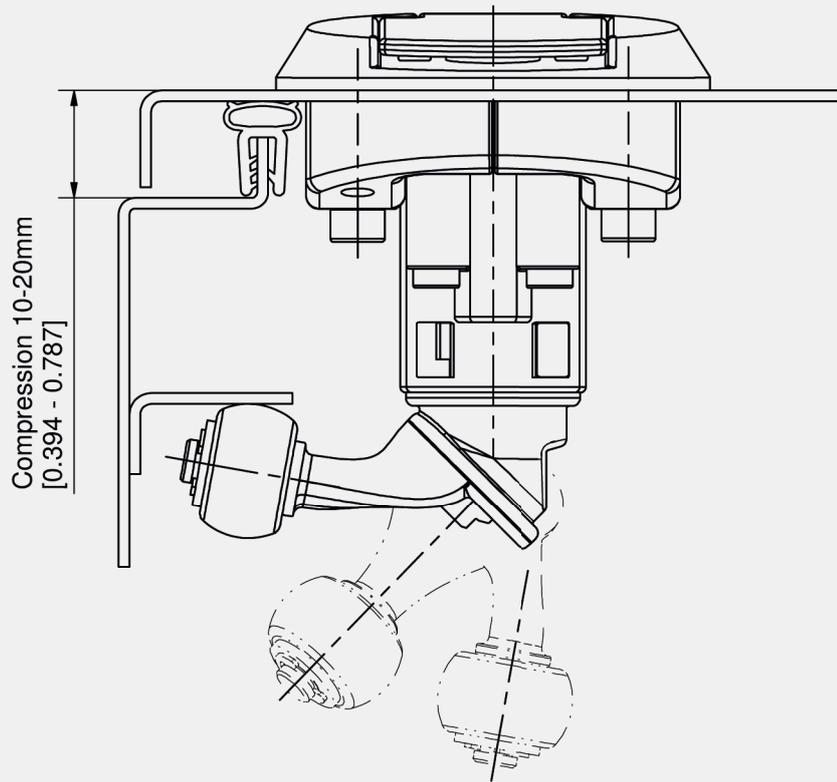
Example of application closed position



Cutout incl. paint



Operation



Compression Latch with lock cover

Part Number	Installation type	1-point cam	H-dimension	Version	Compression
448-9114.00-00020	screw-on	Yes	58	with cam 20	yes
* 211-9001.00-00000				Profile-cylinder, keyed different	
211-9002.00-00000				Profile-cylinder, keyed alike	

- 
- DIN 61373**
- 
- 
- IP 65**
- RoHS WEEE**



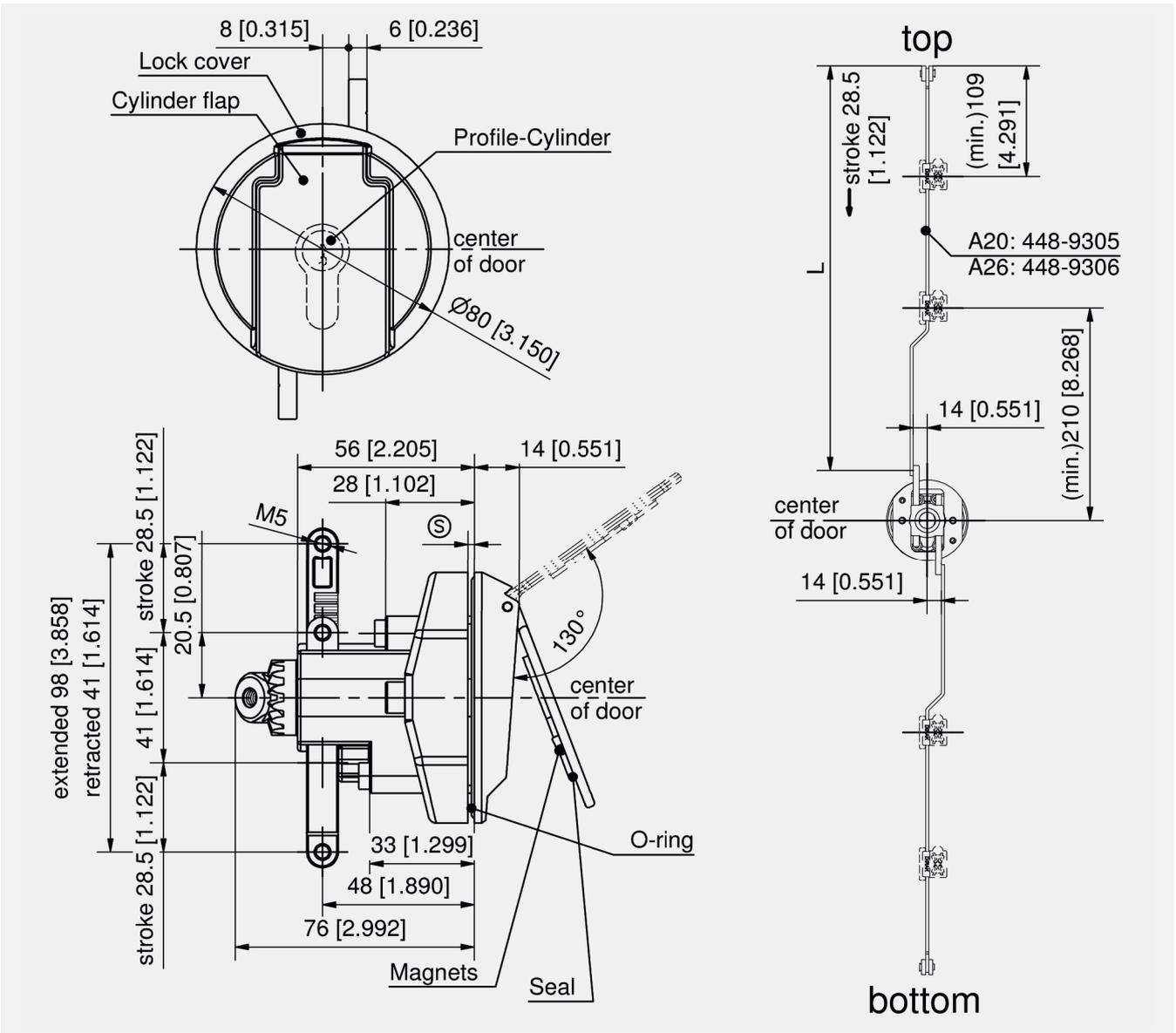
Patented vertical 2-point latch with ergonomically designed lock cover and magnet supported cylinder flap.

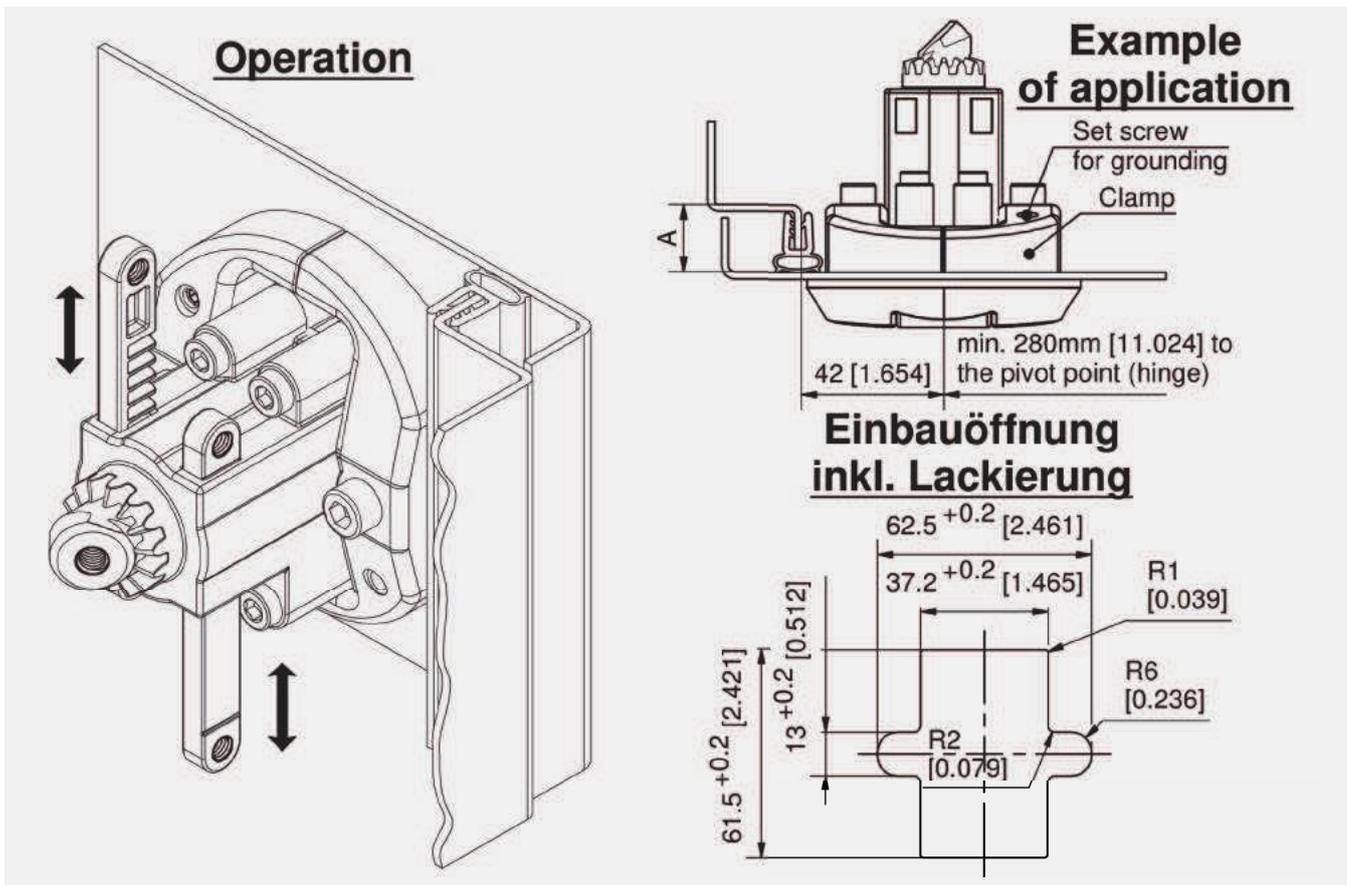
Features

- Perfectly suited to control flat rods.
- The key inserted into the profile-cylinder opens and closes the lock according to DIN 18252.
- Closing- and opening operation 180°.
- The key is removable only in the locked position.
- Grounding with set screw DIN 914 (incl.).
- IP65 according to DIN EN 60529.
- Version DIN RH (as shown)
Version DIN LH on request.

Material and surface

- Housing and slider:** zinc die, zinc plated
 - Clamp:** zinc die, untreated
 - Lock cover:** zinc die, matt chrome plated
 - Seal:** CR / NBR
 - Fastening screws and set screw:** steel, zinc plated
- Note**
(S) = max. 3 mm.

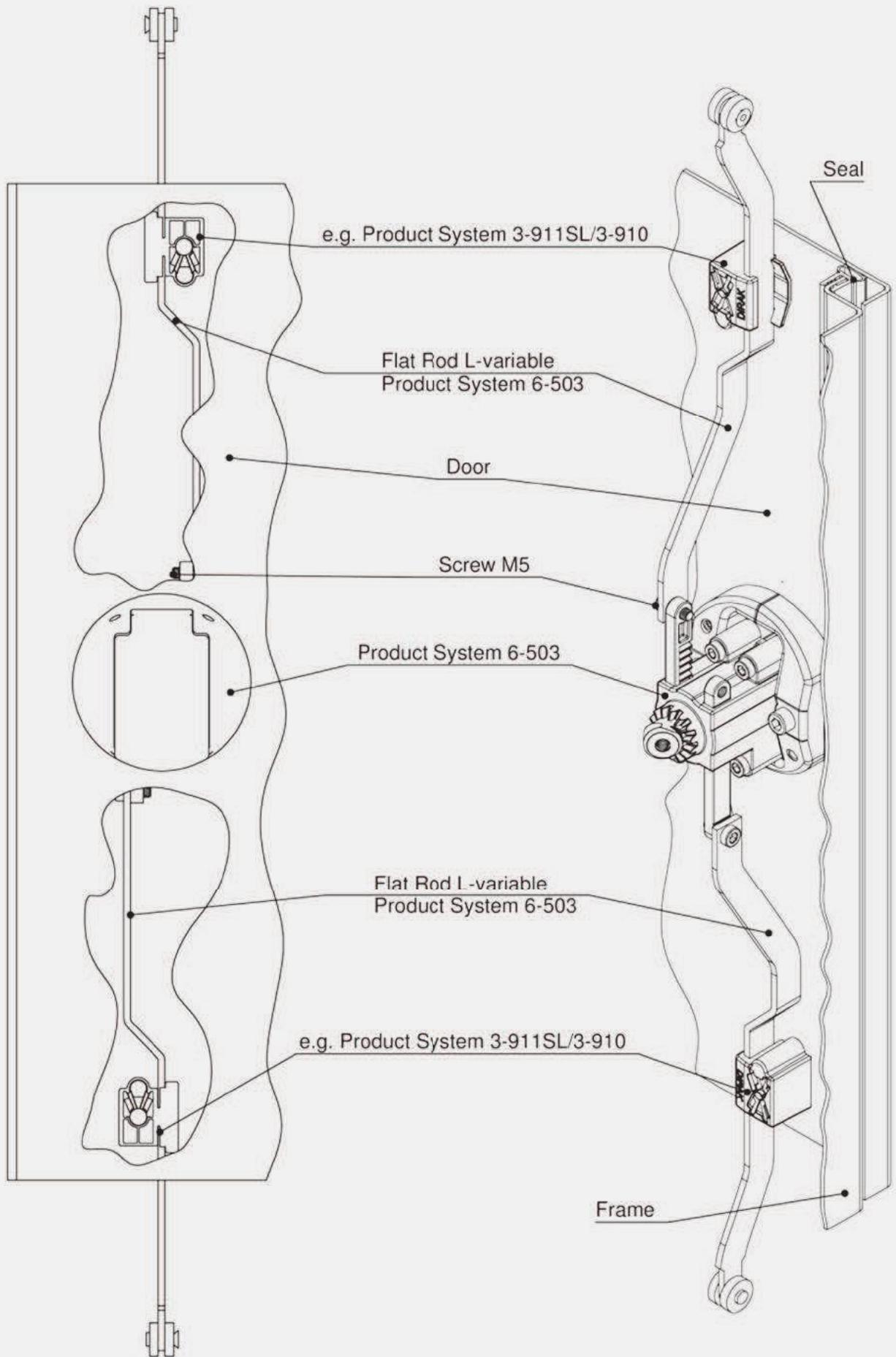




2-point latch with lock cover

Part Number	Multi-point latch	Version	Compression
448-9120.00-00000	Yes	for flat rods	yes
* 211-9001.00-00000		Profile-cylinder, keyed different	
211-9002.00-00000		Profile-cylinder, keyed alike	
448-9305.00-Lxxmm		Flat rod A20, variable length	
448-9306.00-Lxxmm		Flat rod A26, variable length	

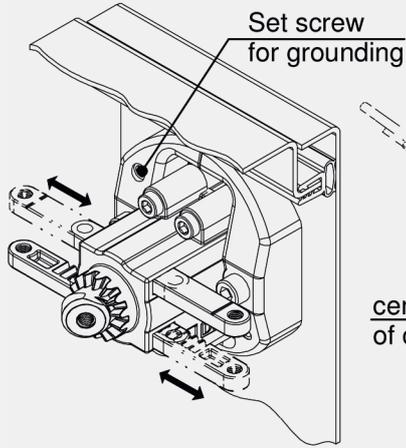
for 2-point latch PHZ 6-503, with lock cover and flat rods with rollers



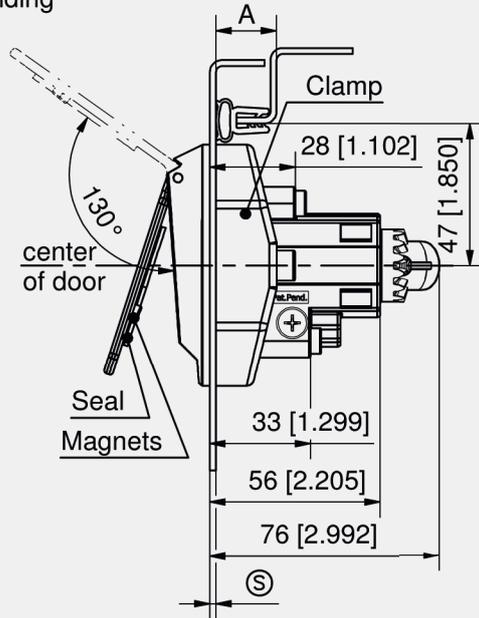


Height Adjustable Cams
on page 146.

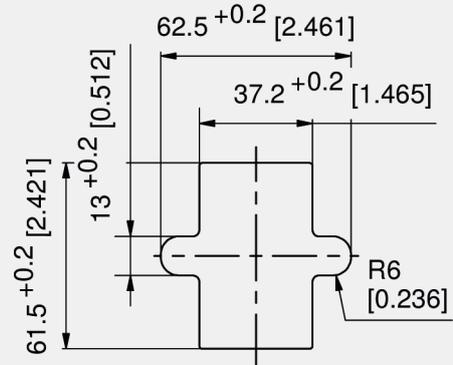
Operation



Example of application



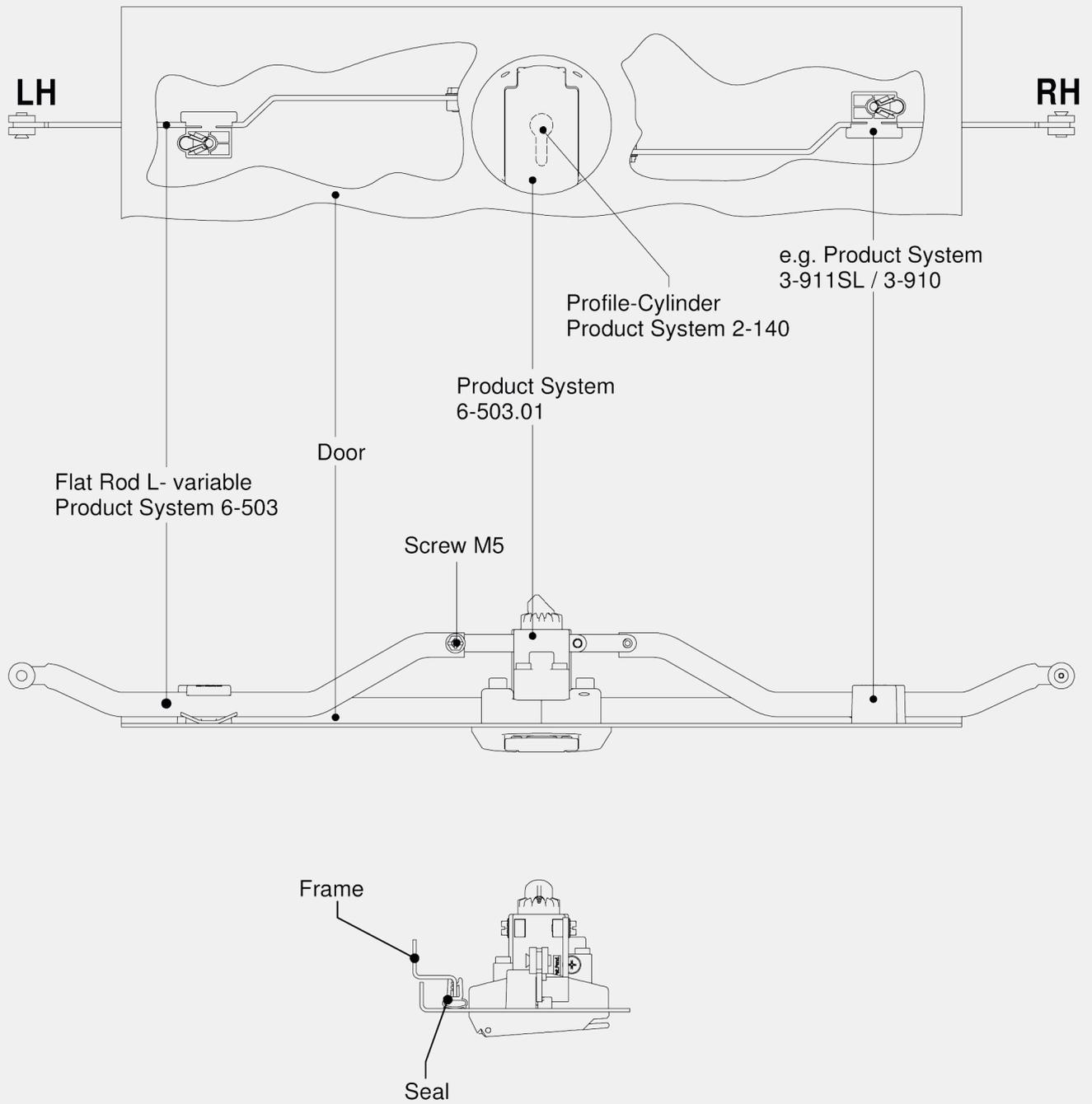
Cutout incl. paint



2-point latch PHZ with lock cover

Part Number	Multi-point latch	Version	Compression
448-9123.00-00000	Yes	for flat rods	yes
* 211-9001.00-00000		Profile-cylinder, keyed different	
211-9002.00-00000		Profile-cylinder, keyed alike	
448-9305.00-Lxxmm		Flat rod A20, variable length	
448-9306.00-Lxxmm		Flat rod A26, variable length	

for 2-point latch PHZ 6-503.01, with lock and flat rods with rollers, horizontal





Hinge Pr01 180°
on page 172.

DIN
61373



IP
65

RoHS
WEEE



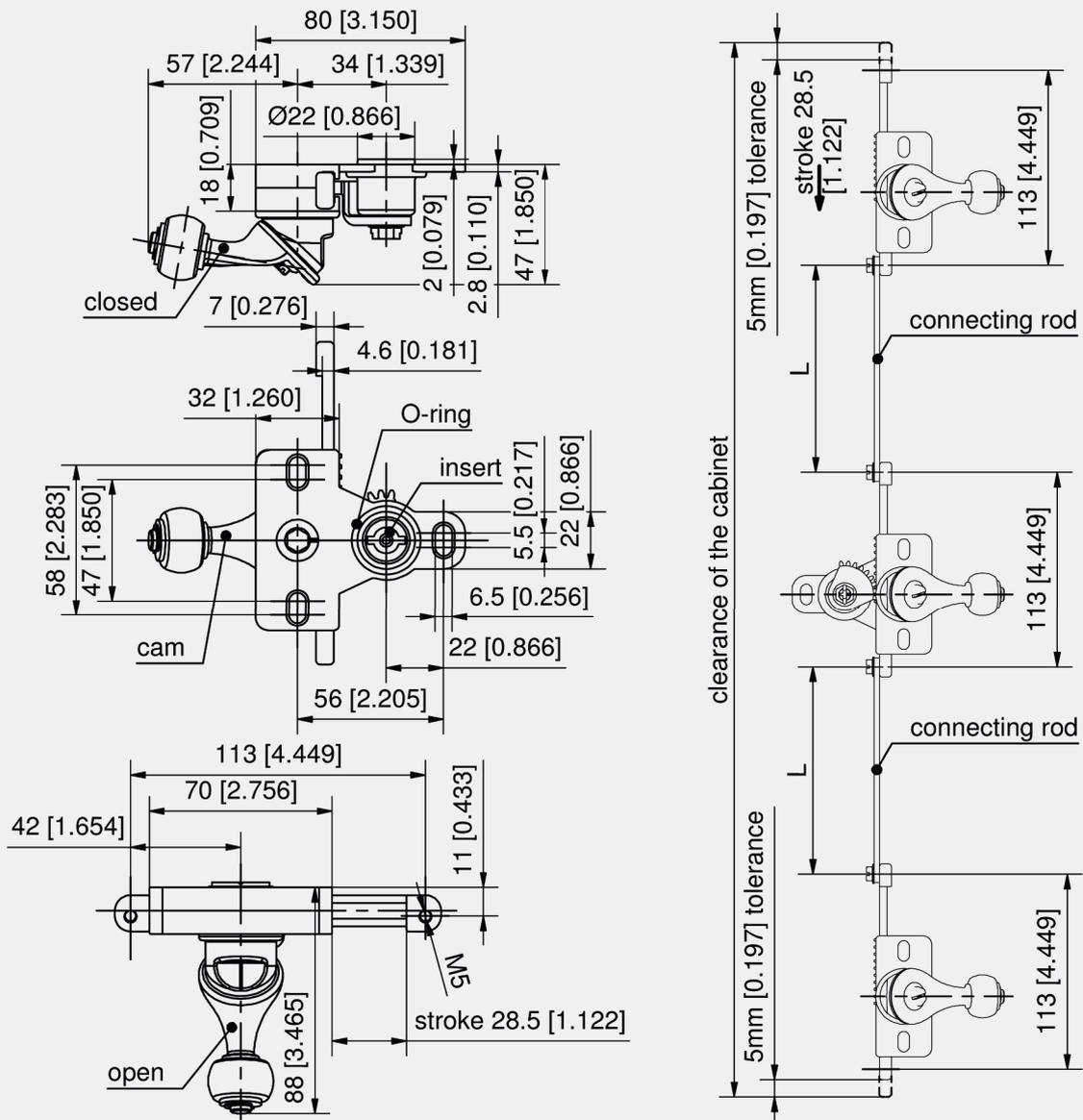
This patented unique compression latch combines design and functionality and has a smooth closing action.

Features

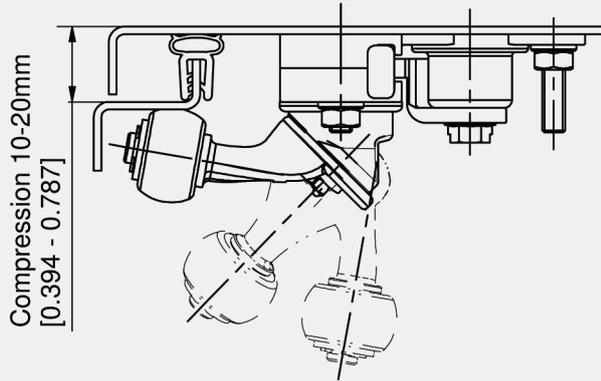
- No protruding handle or knob.
- Innovative locking solution on the inside of the door as a single or multi-point latch (see product system 6-510).
- Perfectly suited to control flat rods.
- Closing- and opening operation 90°.
- 1300N of force per latching point.
- IP65 according to DIN EN 60529.

Material and surface

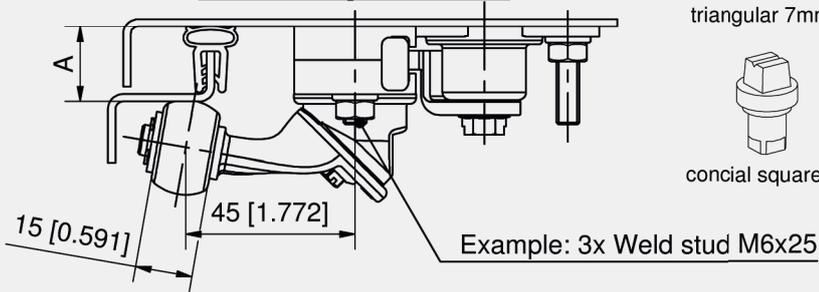
- Housing, slider and cam:** zinc die, zinc plated
- O-rings:** NBR, black
- Washer, retaining clip and fastening screws:** steel, zinc plated
- Roller:** POM, black
- Shoulder bolt:** stainless steel
- Insert:** zinc die, chrome plated
- Gear cover:** PA6, black
- Connecting rod:** steel, zinc plated



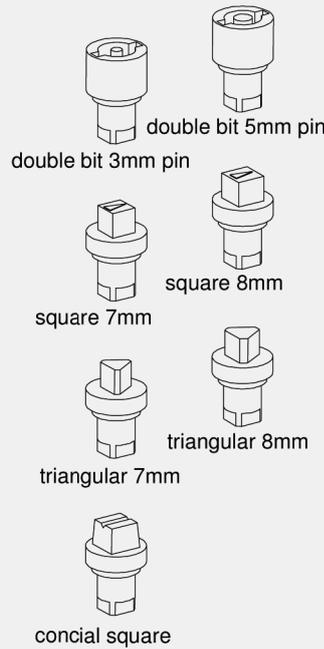
Operation



Example of application closed position



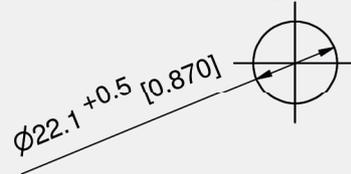
inserts:



rotation direction 90°



Cutout incl. paint

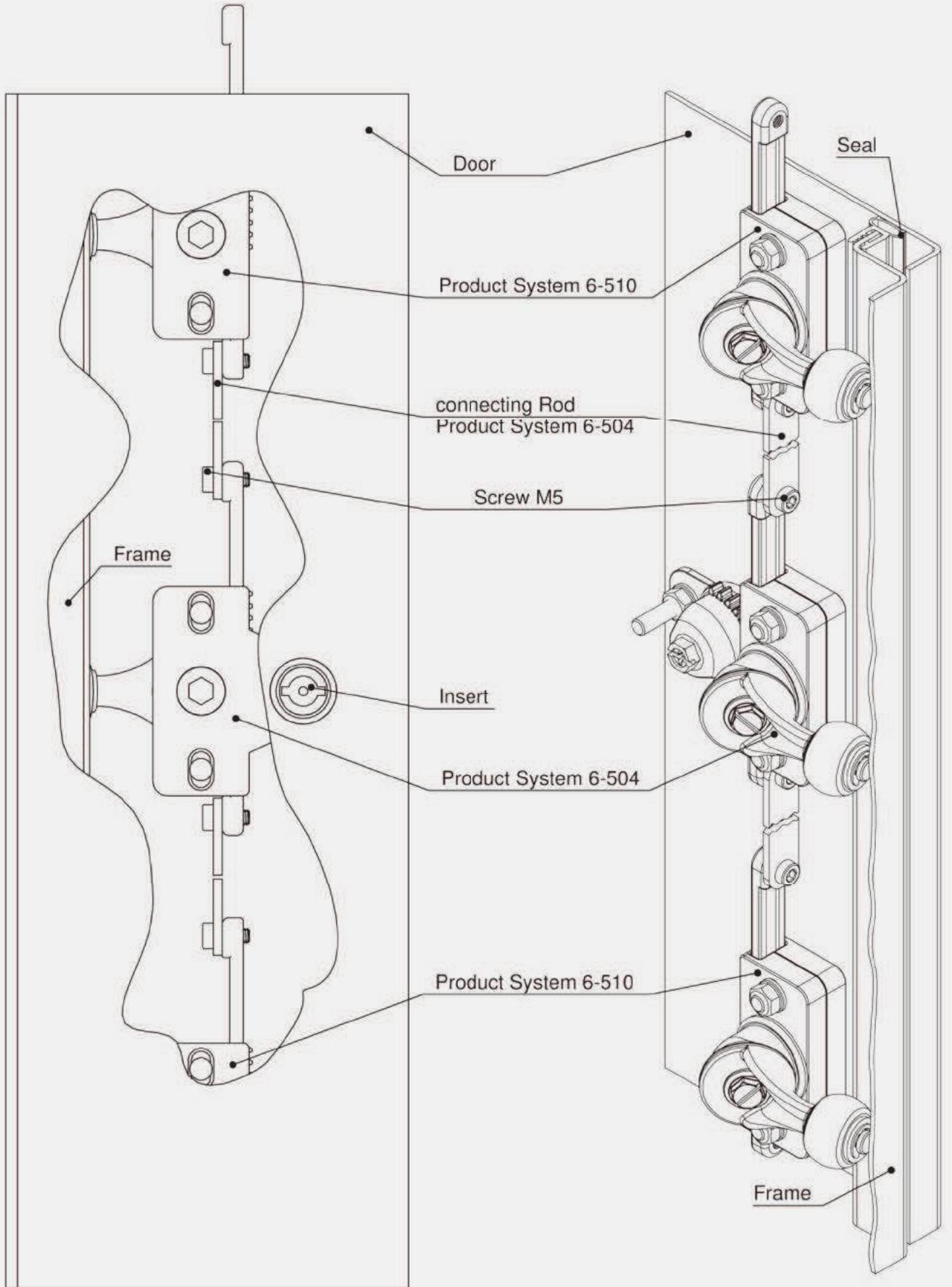


Compression Latch

Part Number	Insert	A-dimension	1-point cam	Multi-point latch possible, see 6-510	Compression
448-9117.00-01018	Double bit 3 mm pin	18	Yes	Yes	yes
448-9117.00-02018	Double bit 5 mm pin	18	Yes	Yes	yes
448-9117.00-03018	Square 7 mm	18	Yes	Yes	yes
448-9117.00-04018	Square 8 mm	18	Yes	Yes	yes
448-9117.00-05018	Triangular 7 mm	18	Yes	Yes	yes
448-9117.00-06018	Triangular 8 mm	18	Yes	Yes	yes
448-9117.00-07018	Conical square 9 mm	18	Yes	Yes	yes
448-9117.00-01020	Double bit 3 mm pin	20	Yes	Yes	yes
448-9117.00-02020	Double bit 5 mm pin	20	Yes	Yes	yes
448-9117.00-03020	Square 7 mm	20	Yes	Yes	yes
448-9117.00-04020	Square 8 mm	20	Yes	Yes	yes
448-9117.00-05020	Triangular 7 mm	20	Yes	Yes	yes
448-9117.00-06020	Triangular 8 mm	20	Yes	Yes	yes
448-9117.00-07020	Conical square 9 mm	20	Yes	Yes	yes
448-9117.00-01023	Double bit 3 mm pin	23	Yes	Yes	yes
448-9117.00-02023	Double bit 5 mm pin	23	Yes	Yes	yes
448-9117.00-03023	Square 7 mm	23	Yes	Yes	yes
448-9117.00-04023	Square 8 mm	23	Yes	Yes	yes
448-9117.00-05023	Triangular 7 mm	23	Yes	Yes	yes
448-9117.00-06023	Triangular 8 mm	23	Yes	Yes	yes
448-9117.00-07023	Conical square 9 mm	23	Yes	Yes	yes
448-9117.00-01025	Double bit 3 mm pin	25	Yes	Yes	yes
448-9117.00-02025	Double bit 5 mm pin	25	Yes	Yes	yes
448-9117.00-03025	Square 7 mm	25	Yes	Yes	yes
448-9117.00-04025	Square 8 mm	25	Yes	Yes	yes
448-9117.00-05025	Triangular 7 mm	25	Yes	Yes	yes
448-9117.00-06025	Triangular 8 mm	25	Yes	Yes	yes
448-9117.00-07025	Conical square 9 mm	25	Yes	Yes	yes

*	448-0802.15-Lxxmm	Connecting rod
---	-------------------	----------------

+	Function extension	Part Number
	Latching Device	6-510



This patented unique latching device combines design and functionality and provides a smooth closing.

Features

- Innovative latching device is on the inside of the door.
- The latching devices can be connected by connecting rods.
- 1300N of force per latching device.

Material and surface

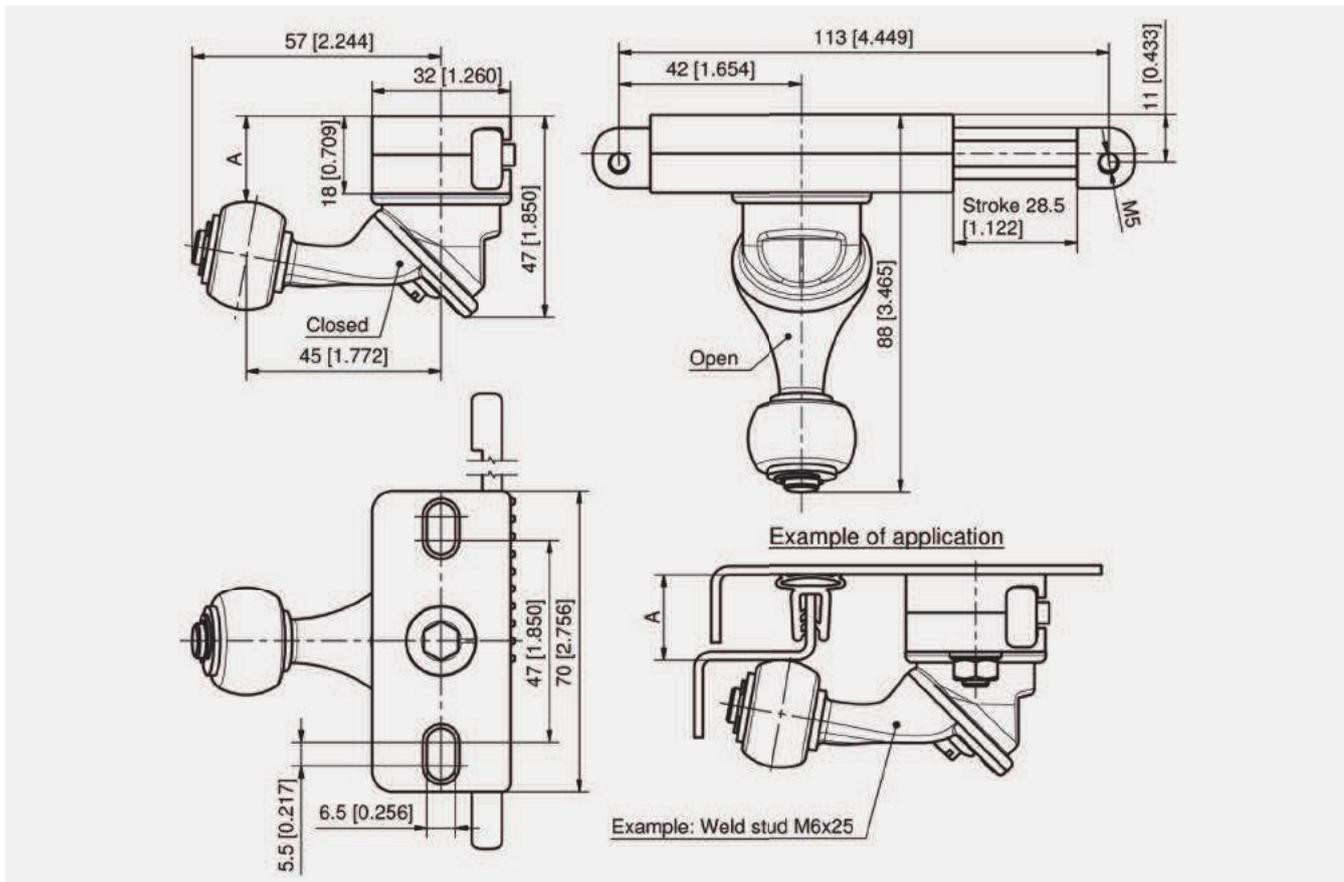
- Housing, slider and cam:** zinc die, zinc plated
- Cover:** PA6, black
- Washer and retaining clip:** steel, zinc plated
- Roller:** POM, black
- Shoulder bolt:** stainless steel
- Serrated screw and fastening screws:** steel, zinc plated



DIN 61373



RoHS WEEE



Compression Latch (internal)

Part Number	Installation type	A-dimension	Version
448-9106.00-00018	screw-on	18	with cam 18
448-9106.00-00020	screw-on	20	with cam 20
448-9106.00-00023	screw-on	23	with cam 23
448-9106.00-00025	screw-on	25	with cam 25

Function extension	Part Number
Compression Latch for Insert	6-504



Compression latch with spring loaded flap. The open flap indicates locking position and protects against dust and water.

Features

- Compression 6 mm.
- Vibration-proof.
- RH and LH version.
- The flap is standing upright (90°) in unlocked position and closes first, when compression latch is closed securely.
- Version b): secured against unintended opening at low pressure or high-speed.
- Flat seal damps the flap as well.

Material and surface

Housing, flap, insert, grounding nut: stainless steel
AISI 316Ti

Screw, nut: stainless steel

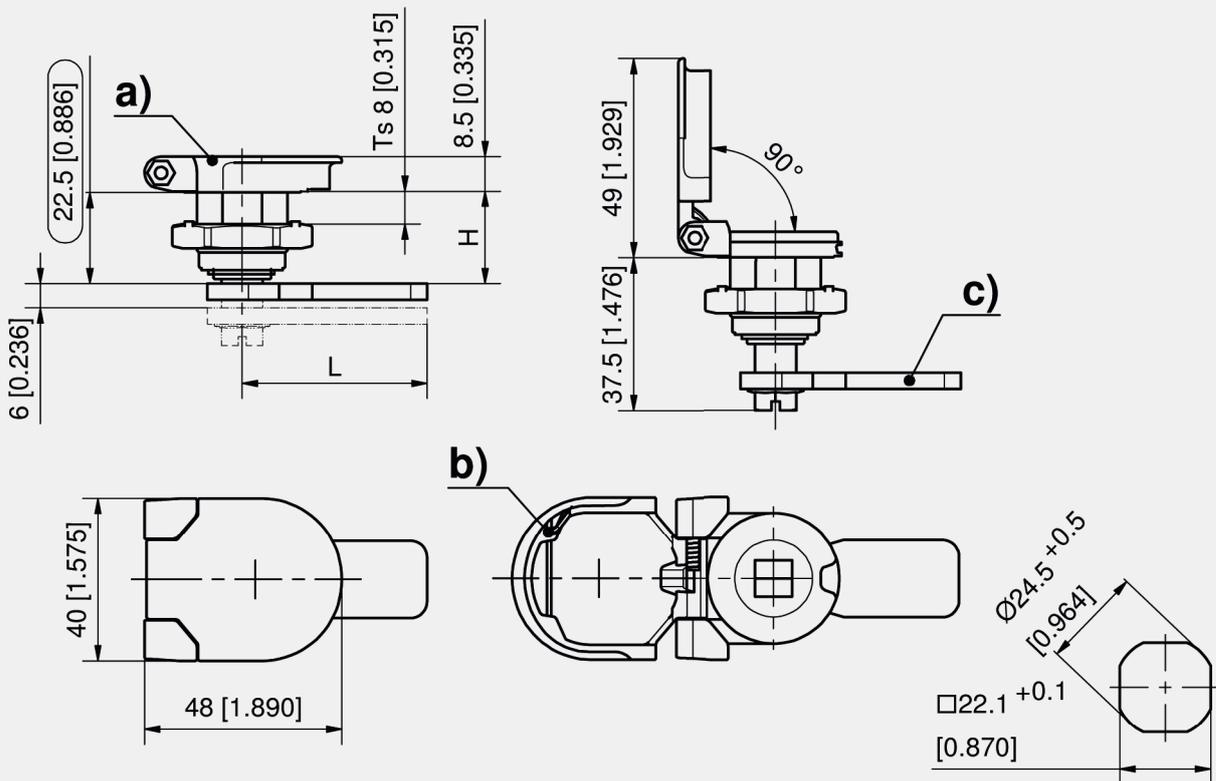
Spring: stainless steel

O-ring: NBR

Note

On request available with reflecting sticker on the inside.

Circumferential handle bar allows easy handling also with work- or safety gloves.



Compression Latch, version RH

	Part Number	Insert	Housing length	Door-thickness	Grounding type	Installation type	Compression	Construction depth
a)	248-9603.00-00001	Double bit 3 mm pin	L22.5	max. 8 mm	Grounding nut	screw-on	6	37,5
a)	248-9603.00-00002	Double bit 5 mm pin	L22.5	max. 8 mm	Grounding nut	screw-on	6	37,5
a)	248-9603.00-00003	Square 8 mm	L22.5	max. 8 mm	Grounding nut	screw-on	6	37,5
a)	248-9603.00-00004	Triangular 8 mm	L22.5	max. 8 mm	Grounding nut	screw-on	6	37,5
a)	248-9603.00-00005	Conical square 9 mm	L22.5	max. 8 mm	Grounding nut	screw-on	6	37,5

Compression Latch, version LH

	Part Number	Insert	Housing length	Door-thickness	Grounding type	Installation type	Compression	Construction depth
a)	248-9652.00-00001	Double bit 3 mm pin	L22.5	max. 8 mm	Grounding nut	screw-on	6	37,5
a)	248-9652.00-00002	Double bit 5 mm pin	L22.5	max. 8 mm	Grounding nut	screw-on	6	37,5
a)	248-9652.00-00003	Square 8 mm	L22.5	max. 8 mm	Grounding nut	screw-on	6	37,5
a)	248-9652.00-00004	Triangular 8 mm	L22.5	max. 8 mm	Grounding nut	screw-on	6	37,5
a)	248-9652.00-00005	Conical square 9 mm	L22.5	max. 8 mm	Grounding nut	screw-on	6	37,5

Compression Latch, version RH, spring secured

	Part Number	Insert	Housing length	Door-thickness	Grounding type	Installation type	Compression	Construction depth
b)	248-9604.00-00001	Double bit 3 mm pin	L22.5	max. 8 mm	Grounding nut	screw-on	6	37,5
b)	248-9604.00-00002	Double bit 5 mm pin	L22.5	max. 8 mm	Grounding nut	screw-on	6	37,5
b)	248-9604.00-00003	Square 8 mm	L22.5	max. 8 mm	Grounding nut	screw-on	6	37,5
b)	248-9604.00-00004	Triangular 8 mm	L22.5	max. 8 mm	Grounding nut	screw-on	6	37,5
b)	248-9604.00-00005	Conical square 9 mm	L22.5	max. 8 mm	Grounding nut	screw-on	6	37,5

Compression Latch, version LH, spring secured

	Part Number	Insert	Housing length	Door-thickness	Grounding type	Installation type	Compression	Construction depth
b)	248-9653.00-00001	Double bit 3 mm pin	L22.5	max. 8 mm	Grounding nut	screw-on	6	37,5
b)	248-9653.00-00002	Double bit 5 mm pin	L22.5	max. 8 mm	Grounding nut	screw-on	6	37,5
b)	248-9653.00-00003	Square 8 mm	L22.5	max. 8 mm	Grounding nut	screw-on	6	37,5
b)	248-9653.00-00004	Triangular 8 mm	L22.5	max. 8 mm	Grounding nut	screw-on	6	37,5
b)	248-9653.00-00005	Conical square 9 mm	L22.5	max. 8 mm	Grounding nut	screw-on	6	37,5



7-105.01
200-0916.00-00000

Cams L35/45 without Ramp and Stop
Flat external seal for Prod. System 7-071



Nicely shaped safety Quarter-turn.

Features

- Vibration-proof also at high sealing pressure.
- Fully closed external surface.
- IP65 according to DIN EN 60529.
- RH / LH application.
- A pre-assembled quarter-turn can be inserted through the cutout.
- On request cam can be pre-assembled by DIRAK.

Material and surface

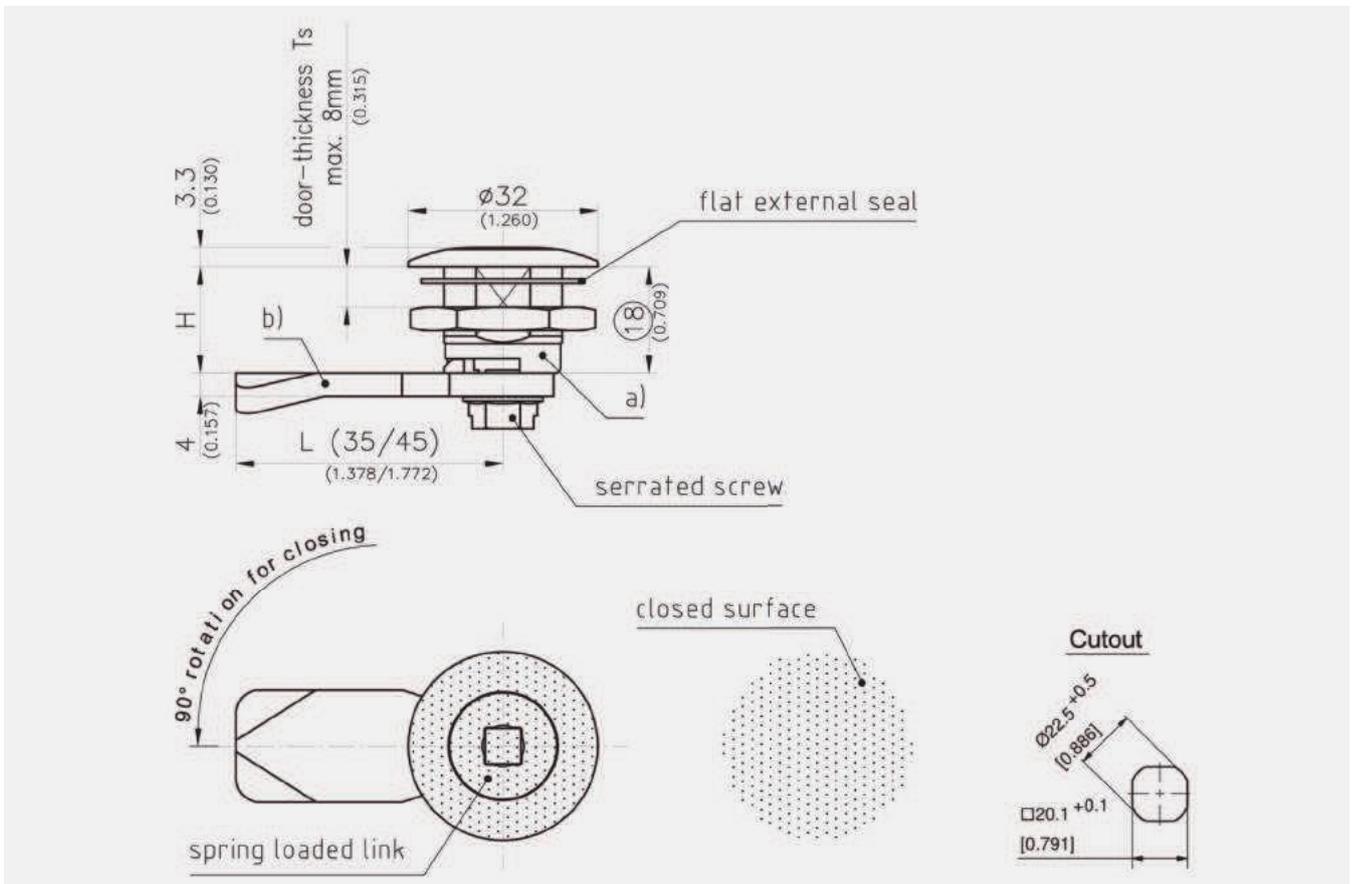
Housing, insert, spring loaded link and nut: stainless steel AISI 316L

O-ring and flat seal: NBR Perbunan

Serrated screw and spring: stainless steel AISI 304

Note

An assembled cam will have some axial play on the insert. This play is necessary to neutralize tipping of the insert at high compression forces. This tipping will squeeze the spring loaded link.



Safety Quarter-turn

Part Number	Insert	Housing length	Door-thickness	Material
255-9427.00-00000	Square 6 mm	L18	max. 8 mm	stainless steel

Slam-cam for slam doors or flaps.

Features

- Locking without key or tool.
- A slam-cam set consists of a cam, a spring and a serrated screw with self securing powder dot.
- This self securing powder dot is to tune / adjust the correct friction for the stroke.

Material and surface

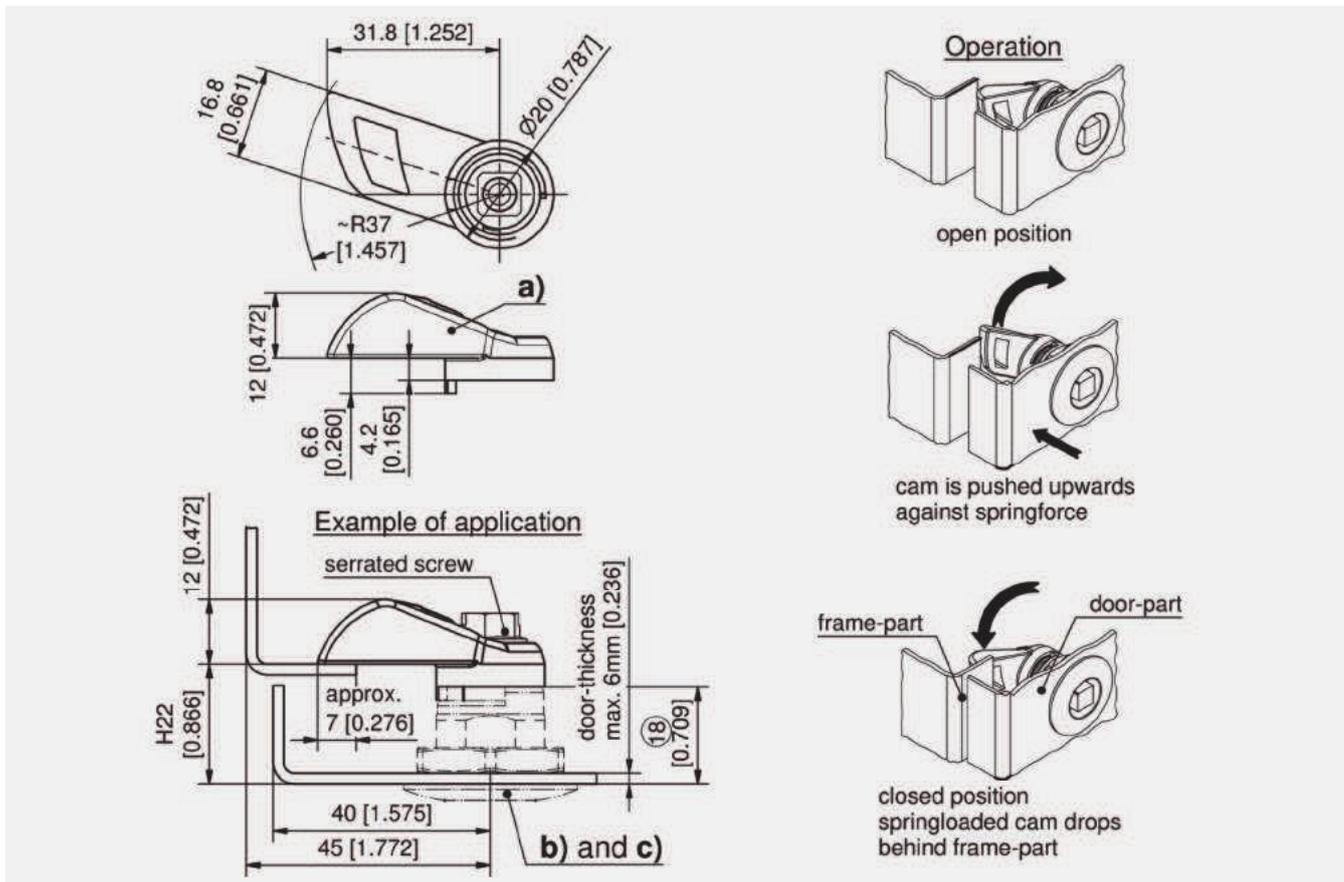
Slam-cam: stainless steel AISI 316
Spring: stainless steel AISI 301
Serrated screw: stainless steel AISI 303

Note

On request, latch units with this cam should be assembled by DIRAK. A pre-assembled Quarter-turn can be installed through the cutout.



RoHS
WEEE



Slam-Cam

	Part Number	Material	Length L	Version
a)	200-9629.00-00000	stainless steel	L32	RH
a)	200-9630.00-00000	stainless steel	L32	LH



SNAP

DIN 61373

RoHS WEEE



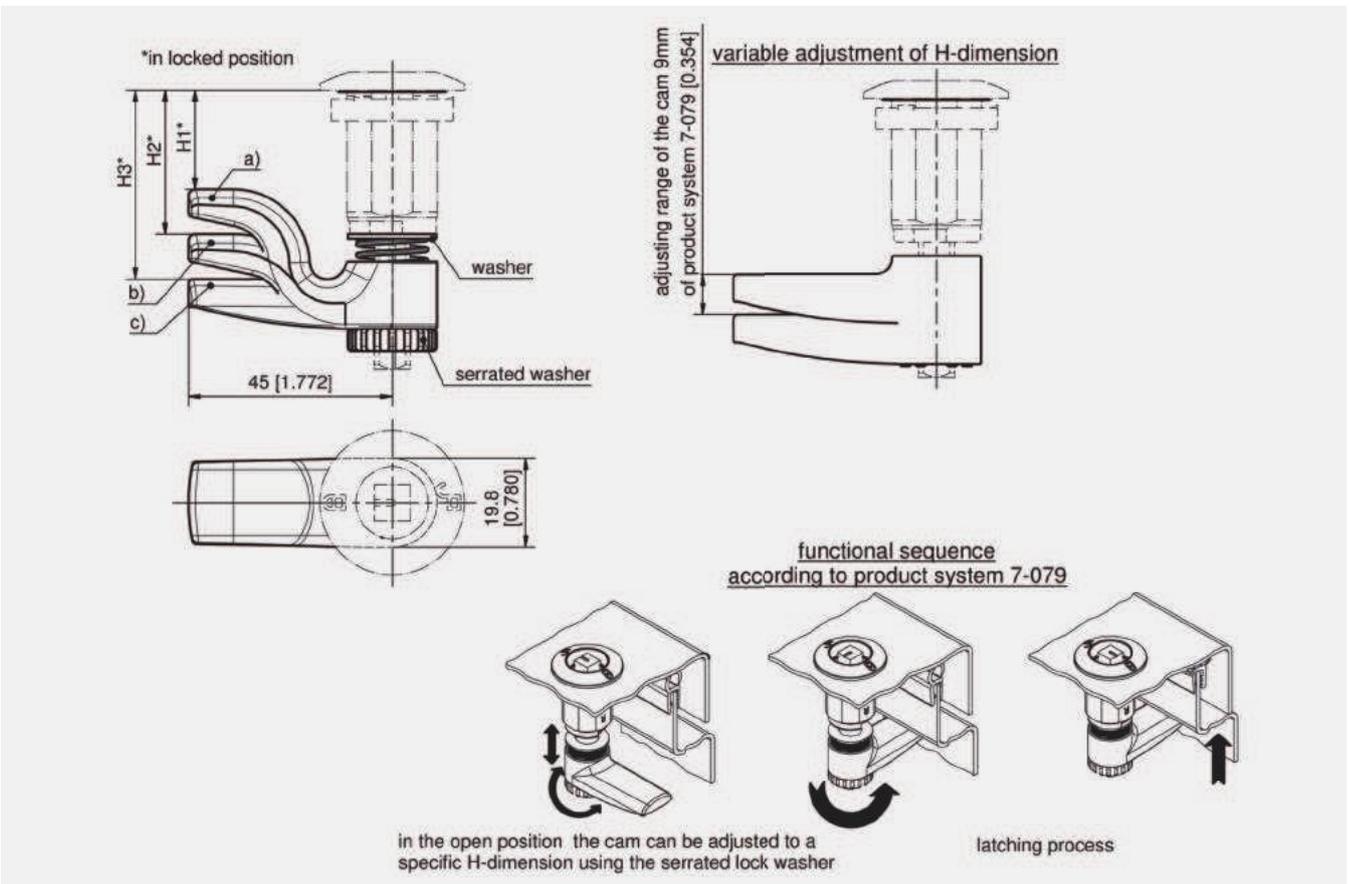
Height adjustable cam for all Quarter-turns and compression Quarter-turns with long shaft that allow for adjustable cam.

Features

- Tool-less adjustment.
- Variable adjustments can easily be made on different size seals, using serrated washer.
- Adjusting range of 9 mm [0.354]
- Can be readjusted at any time (compressed sealing).
- Clamping range of 30 mm [1.181] can be achieved with only 3 cams.
- Each detent achieves 0.25 mm [0.010] adjustment.

Material and surface

- Cam and serrated washer:** stainless steel AISI 316, untreated
- Washer:** stainless steel AISI 304, untreated
- Compression spring:** stainless steel AISI 301, untreated



Height-adjustable Cam

	Part Number	Material	Length L	H-dimension straight variable	H-dimension positive variable
c)	100-9079.00-00000	stainless steel	L45	H3 = 40-49	
a)	100-9079.00-00001	stainless steel	L45		H1 = 20-29
b)	100-9079.00-00002	stainless steel	L45		H2 = 30-39

This Catch was developed for tool-less adjustment of all standard cams and is suitable for M10 square threaded rods.

Features

- Tool-less adjustment.
- Variable and easy adjustment with stop washer.
- Adjustment track per click 0.25 mm.
- Vibration-proof.
- Readjustment possible at any time (e.g. compressed sealing).
- For cams with and without stop.

Material and surface

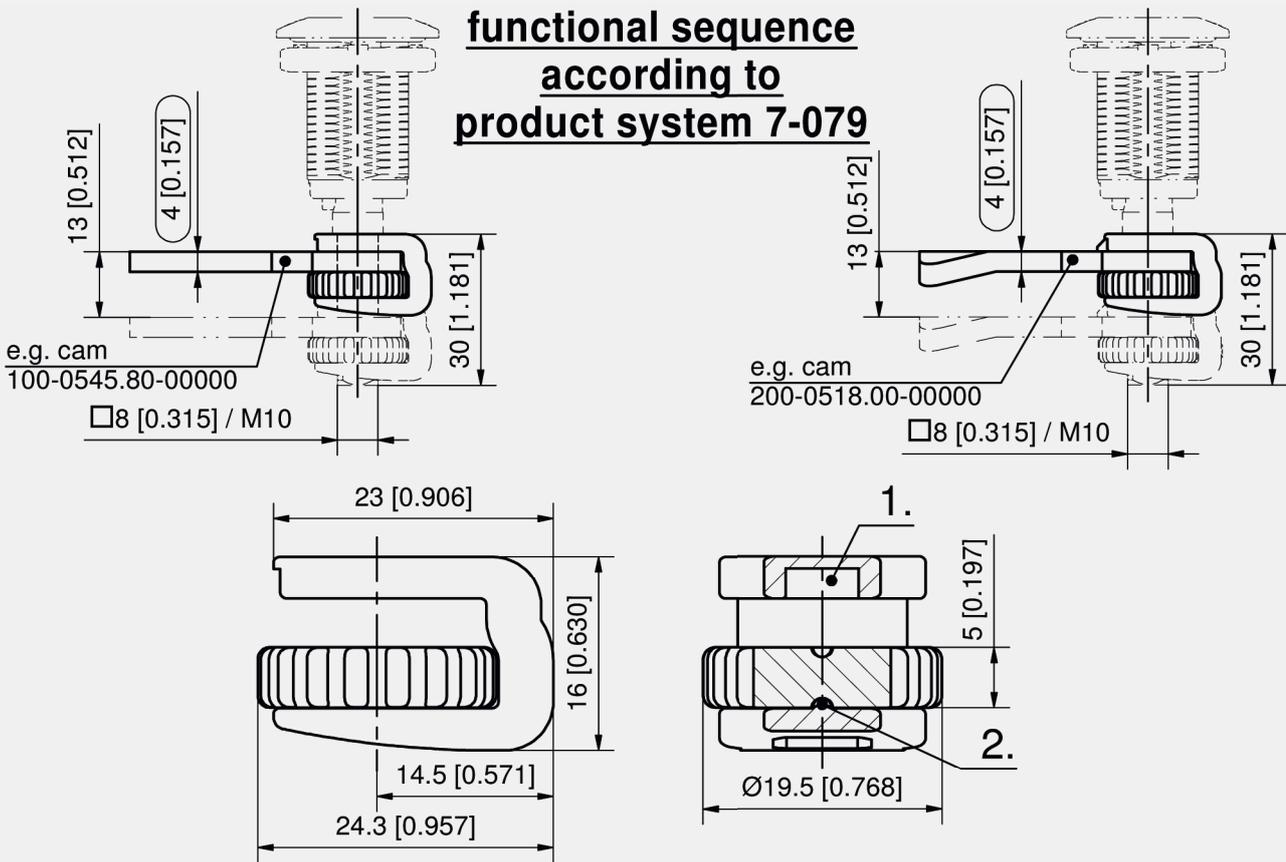
Catch: PA, black
Stop washer: stainless steel

Note

1. = Recess for cams with stop
2. = Detent (6x)



functional sequence according to product system 7-079



Catch for standard cams

Part Number	Material stop washer
248-9902.00-00000	stainless steel

-
-
-
-
- DIN 61373**
- IP 65**
- IP 67**
- IP 69K**
-
- RoHS WEEE**
-



Elegant, low profile Compression latch.

Features

- Compression 6 mm.
- Vibration-proof according to DIN EN 61373.
- RH and LH version.
- The coloured marking on the casing top indicates the opened/closed position in form of a padlock.
- IP 65/67/69K according to DIN EN 60529/ DIN 40050.
- The H-dimension can be varied via the cranking of the cams.

Material and surface

Housing, insert, axle and nut: stainless steel AISI 316

Grounding nut: stainless steel AISI 316L

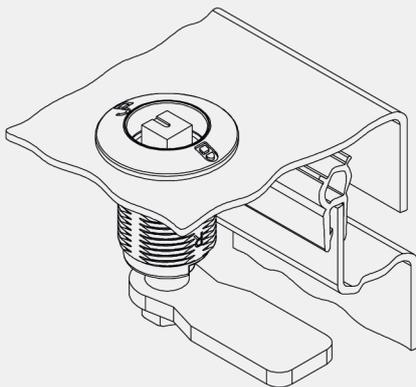
Cam and serrated screw: stainless steel AISI 304

Note

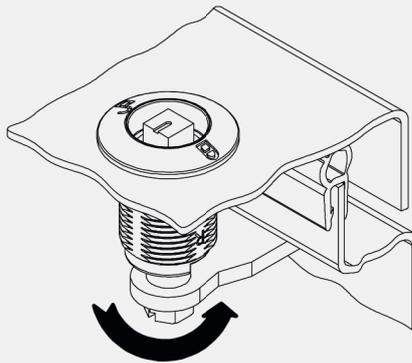
Negatively bent cams can not be installed pre-assembled.

1. Foamed sealing PUR.

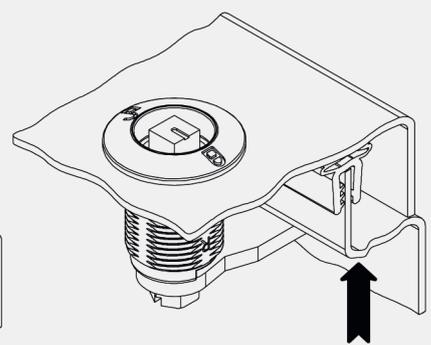
Operation



open, unlatched position



First 90° rotation: the cam latches behind the frame into the locked position. The door cannot be opened.



A further 90° rotation will pull the already latched cam towards the frame: the seal is compressed, the door is latched and free of play.

Compression Latch with Cam and Accessories

248-91AA.00- X Y L CC

Insert version and Design:

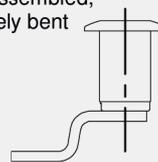
RH or LH see table a)

Accessories on table a):

- 0= without Accessories
- 1= Serrated lock washer 840-6798.00-00023
- 2= Dustcap 200-4103.00-00000
- 3= Serrated lock washer + Dustcap

Assembling of Cam:

- 0= without Cam
- 1= Cam not assembled
- 3= Cam assembled, positively bent Cam

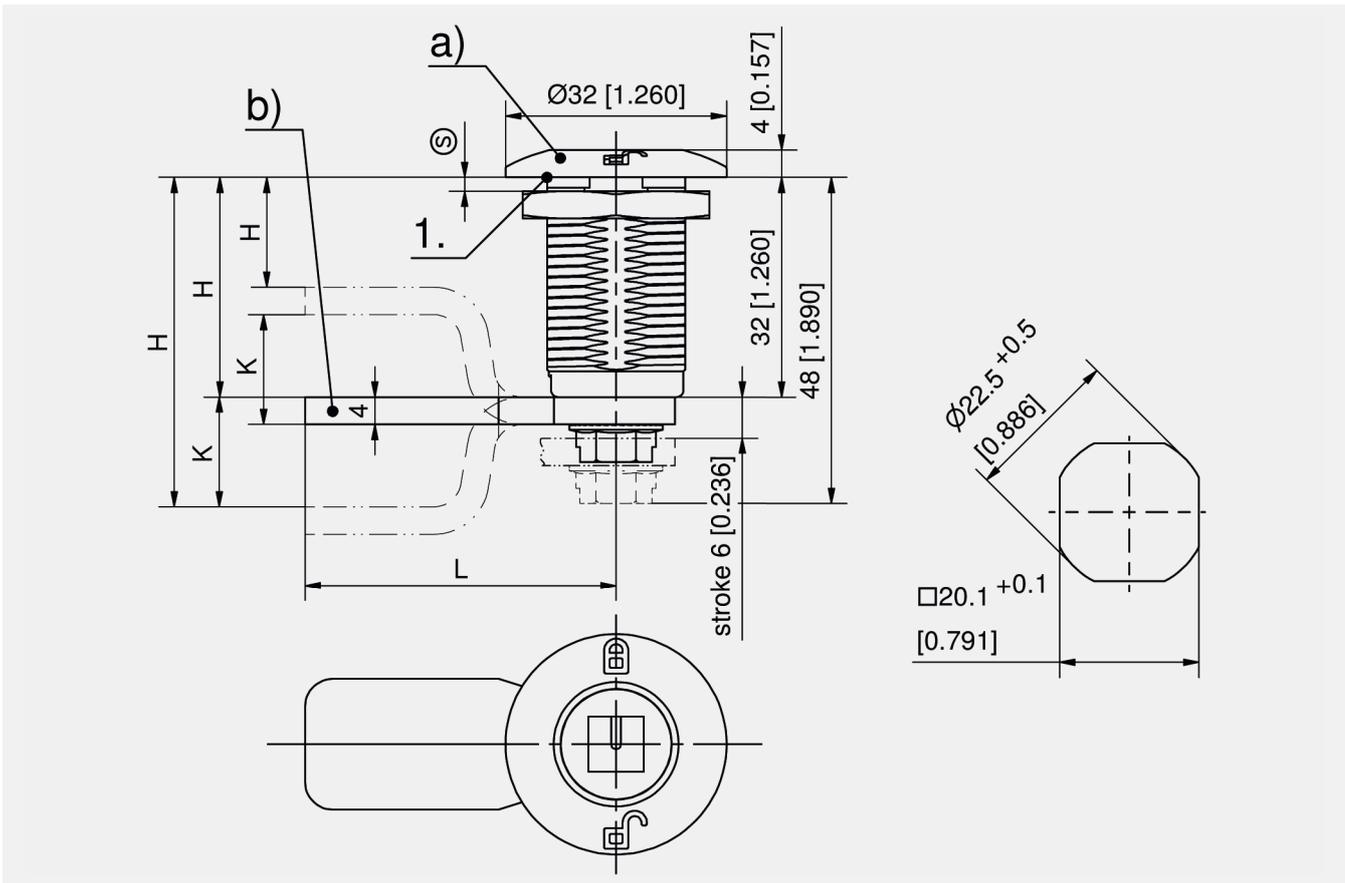


length of Cam:

- 0= without Cam
- 1= L35
- 2= L45

Cranked Cam CC:

see table b)



Compression Latch with insert, version RH

	Part Number	Insert	Door-thickness	Grounding type	Installation type	Construction depth
a)	248-9100.00-00000	Square 6 mm	max. 22 mm	Grounding nut	screw-on	48
a)	248-9101.00-00000	Square 7 mm	max. 22 mm	Grounding nut	screw-on	48
a)	248-9102.00-00000	Square 8 mm	max. 22 mm	Grounding nut	screw-on	48
a)	248-9103.00-00000	Double bit 3 mm pin	max. 22 mm	Grounding nut	screw-on	48
a)	248-9104.00-00000	Double bit 5 mm pin	max. 22 mm	Grounding nut	screw-on	48
a)	248-9105.00-00000	Triangular 6.5 mm	max. 22 mm	Grounding nut	screw-on	48
a)	248-9106.00-00000	Triangular 7 mm	max. 22 mm	Grounding nut	screw-on	48
a)	248-9107.00-00000	Triangular 8 mm	max. 22 mm	Grounding nut	screw-on	48
a)	248-9109.00-00000	Hex.SW 11	max. 22 mm	Grounding nut	screw-on	48
a)	248-9108.00-00000	Conical square 9 mm	max. 22 mm	Grounding nut	screw-on	48
a)	248-9110.00-00000	Conical triangular 7 mm	max. 22 mm	Grounding nut	screw-on	48

Compression Latch with insert, version LH

	Part Number	Insert	Door-thickness	Grounding type	Installation type	Construction depth
a)	248-9150.00-00000	Square 6 mm	max. 22 mm	Grounding nut	screw-on	48
a)	248-9151.00-00000	Square 7 mm	max. 22 mm	Grounding nut	screw-on	48
a)	248-9152.00-00000	Square 8 mm	max. 22 mm	Grounding nut	screw-on	48
a)	248-9153.00-00000	Double bit 3 mm pin	max. 22 mm	Grounding nut	screw-on	48
a)	248-9154.00-00000	Double bit 5 mm pin	max. 22 mm	Grounding nut	screw-on	48
a)	248-9155.00-00000	Triangular 6.5 mm	max. 22 mm	Grounding nut	screw-on	48
a)	248-9156.00-00000	Triangular 7 mm	max. 22 mm	Grounding nut	screw-on	48
a)	248-9157.00-00000	Triangular 8 mm	max. 22 mm	Grounding nut	screw-on	48
a)	248-9159.00-00000	Hex.SW 11	max. 22 mm	Grounding nut	screw-on	48
a)	248-9158.00-00000	Conical square 9 mm	max. 22 mm	Grounding nut	screw-on	48
a)	248-9160.00-00000	Conical triangular 7 mm	max. 22 mm	Grounding nut	screw-on	48

*	7-105.01	Cams L35/45 without Ramp and Stop				
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-
-
- DIN 61373**
- IP 65**
- IP 67**
- IP 69K**
-
- RoHS WEEE**
-



Elegant, low profile Compression latch.

Features

- Compression 6 mm.
- Vibration-proof according to DIN EN 61373.
- RH and LH version.
- The coloured marking on the casing top indicates the opened/closed position in form of a padlock.
- IP 65/67/69K according to DIN EN 60529/ DIN 40050.
- The H-dimension can be varied via the cranking of the cams.

Material and surface

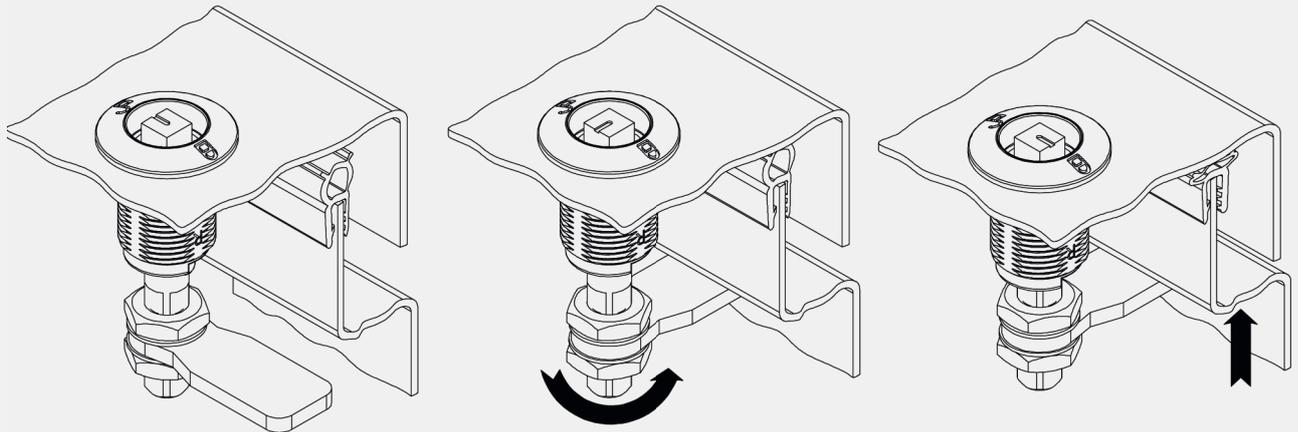
Housing, insert and axle: stainless steel AISI 316
Grounding nut: stainless steel AISI 316L
Cam, serrated washer and nuts M8: stainless steel AISI 304

Note

The cam can be varied to ±6 mm (0.236) via nuts (included) on the axis.

1. = Foamed sealing PUR.

Operation



open, unlatched position

First 90° rotation: the cam latches behind the frame into the locked position. The door cannot be opened.

A further 90° rotation will pull the already latched cam towards the frame: the seal is compressed, the door is latched and free of play.

Compression Latch with Cam and Accessories

248-92AA.00- X Y L CC

Insert version and Design:

RH or LH see table a)

Accessories on table a):

- 0= without Accessories
- 1= Serrated lock washer 840-6798.00-00023
- 2= Dustcap 200-4103.00-00000
- 3= Serrated lock washer + Dustcap

Assembling of Cam:

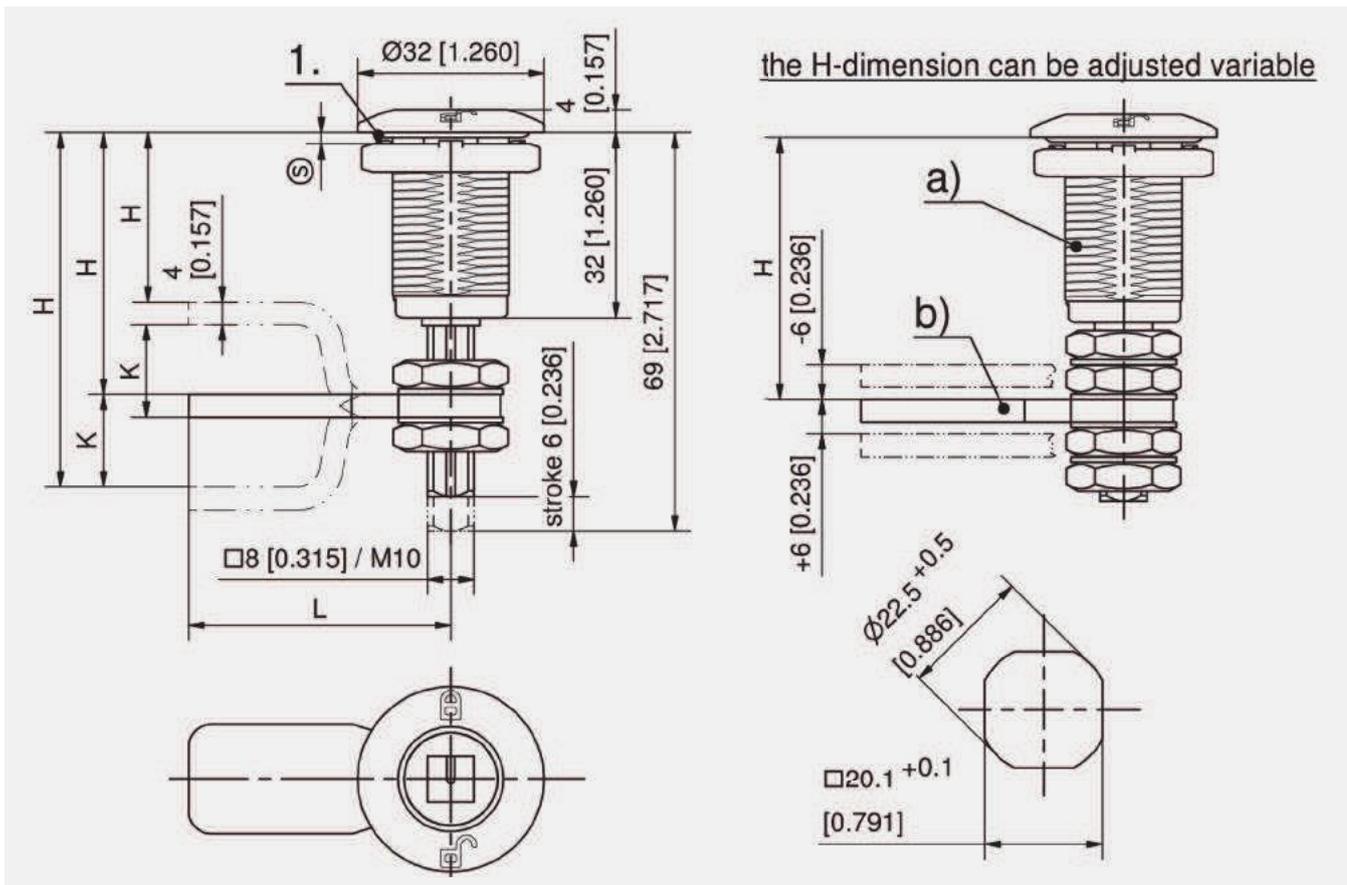
- 0= without Cam
- 1= Cam not assembled (attached loose)

length of Cam:

- 0= without Cam
- 1= L35
- 2= L45

Cranked Cam CC:

see table b)



Compression Latch, version RH

	Part Number	Insert	Door-thickness	Grounding type	Installation type	variable H-dimension	Construction depth
a)	248-9200.00-00000	Square 6 mm	max. 22 mm	Grounding nut	screw-on	17-73	69
a)	248-9201.00-00000	Square 7 mm	max. 22 mm	Grounding nut	screw-on	17-73	69
a)	248-9202.00-00000	Square 8 mm	max. 22 mm	Grounding nut	screw-on	17-73	69
a)	248-9203.00-00000	Double bit 3 mm pin	max. 22 mm	Grounding nut	screw-on	17-73	69
a)	248-9204.00-00000	Double bit 5 mm pin	max. 22 mm	Grounding nut	screw-on	17-73	69
a)	248-9205.00-00000	Triangular 6.5 mm	max. 22 mm	Grounding nut	screw-on	17-73	69
a)	248-9206.00-00000	Triangular 7 mm	max. 22 mm	Grounding nut	screw-on	17-73	69
a)	248-9207.00-00000	Triangular 8 mm	max. 22 mm	Grounding nut	screw-on	17-73	69
a)	248-9209.00-00000	Hex.SW 11	max. 22 mm	Grounding nut	screw-on	17-73	69
a)	248-9208.00-00000	Conical square 9 mm	max. 22 mm	Grounding nut	screw-on	17-73	69
a)	248-9210.00-00000	Conical triangular 7 mm	max. 22 mm	Grounding nut	screw-on	17-73	69

Compression Latch, version LH

	Part Number	Insert	Door-thickness	Grounding type	Installation type	variable H-dimension	Construction depth
a)	248-9250.00-00000	Square 6 mm	max. 22 mm	Grounding nut	screw-on	17-73	69
a)	248-9251.00-00000	Square 7 mm	max. 22 mm	Grounding nut	screw-on	17-73	69
a)	248-9252.00-00000	Square 8 mm	max. 22 mm	Grounding nut	screw-on	17-73	69
a)	248-9253.00-00000	Double bit 3 mm pin	max. 22 mm	Grounding nut	screw-on	17-73	69
a)	248-9254.00-00000	Double bit 5 mm pin	max. 22 mm	Grounding nut	screw-on	17-73	69
a)	248-9255.00-00000	Triangular 6.5 mm	max. 22 mm	Grounding nut	screw-on	17-73	69
a)	248-9256.00-00000	Triangular 7 mm	max. 22 mm	Grounding nut	screw-on	17-73	69
a)	248-9257.00-00000	Triangular 8 mm	max. 22 mm	Grounding nut	screw-on	17-73	69
a)	248-9259.00-00000	Hex.SW 11	max. 22 mm	Grounding nut	screw-on	17-73	69
a)	248-9258.00-00000	Conical square 9 mm	max. 22 mm	Grounding nut	screw-on	17-73	69
a)	248-9260.00-00000	Conical triangular 7 mm	max. 22 mm	Grounding nut	screw-on	17-73	69



7-105.01

Cams L35/45 without Ramp and Stop



Hygiene Compression Latch
on page 158.

Elegant low profile Quarter-turn.

Features

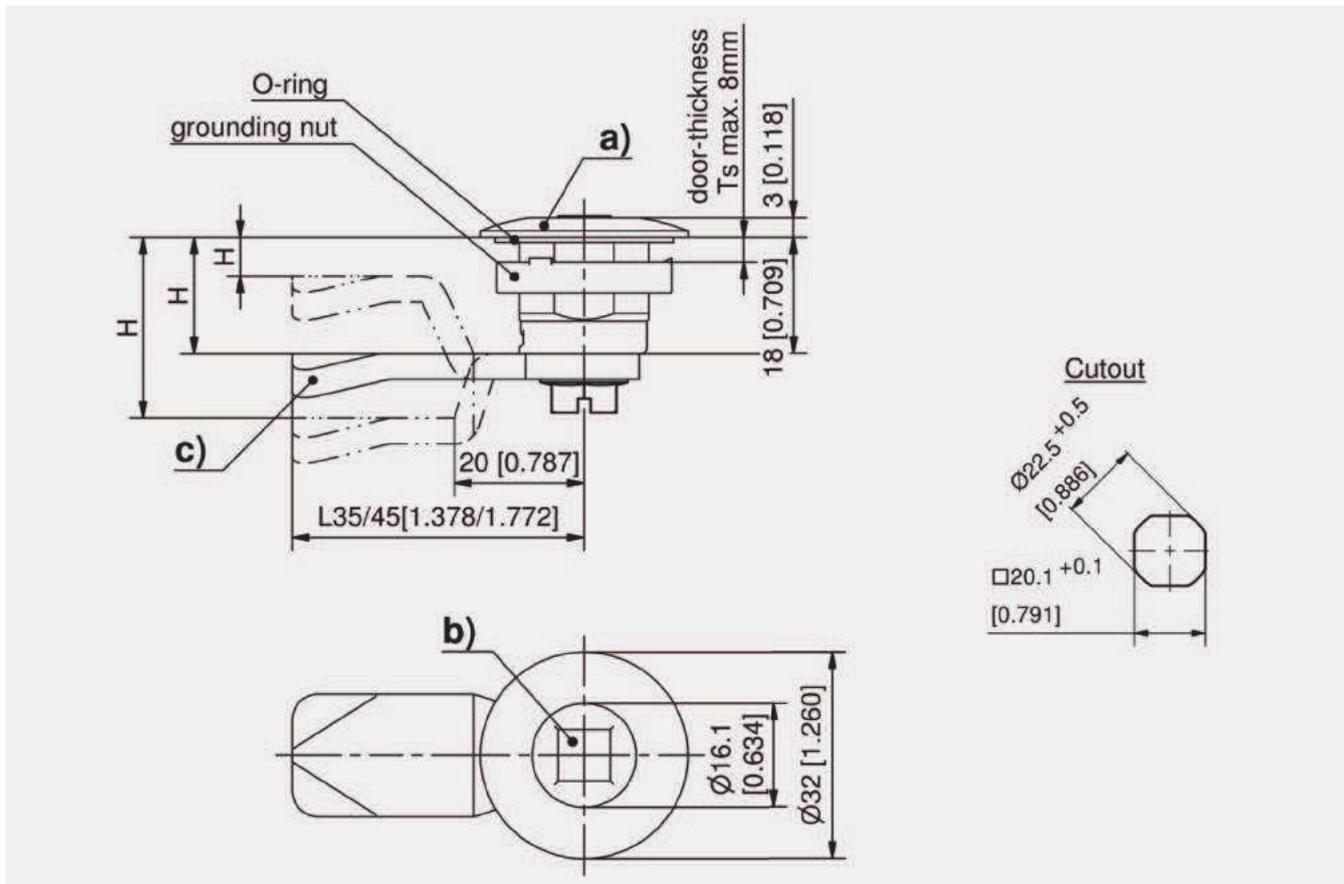
- RH / LH application.
- Please configure the Quarter-turn with insert and cam.
- On request parts can be assembled.
- The Quarter-turn, stainless steel, can be screwed into the cutout with the pre-assembled cam.
- IP65 according to DIN EN 60529.
- IP67 according to DIN 60529 and IP69K according to DIN 40050 by: additional o-ring 200-1002.

Material and surface

- Housing:** stainless steel AISI 316
- Insert:** stainless steel AISI 316
- Cams and serrated screw:** stainless steel AISI 304
- O-rings:** NBR
- Grounding nut:** stainless steel AISI 316L

Note

(S) = max. 8 mm



Quarter-turn

	Part Number	Housing length	Door-thickness	Material	Grounding type	Installation type
a)	100-9601.00-00000	L18	max. 8 mm	stainless steel	Grounding nut	screw-on

+	Function extension	Part Number
	O-ring 10 x 2.0 mm	200-1002.00-00000

⚙️	Assembly options	Part Number
	Assembling cam with o-ring	200-0002.00-00000

-
-
-
- IP 67**
- IP 69K**
-
-
- RoHS WEEE**



Quarter-turn with insert SW13 for hygienic applications.

Features

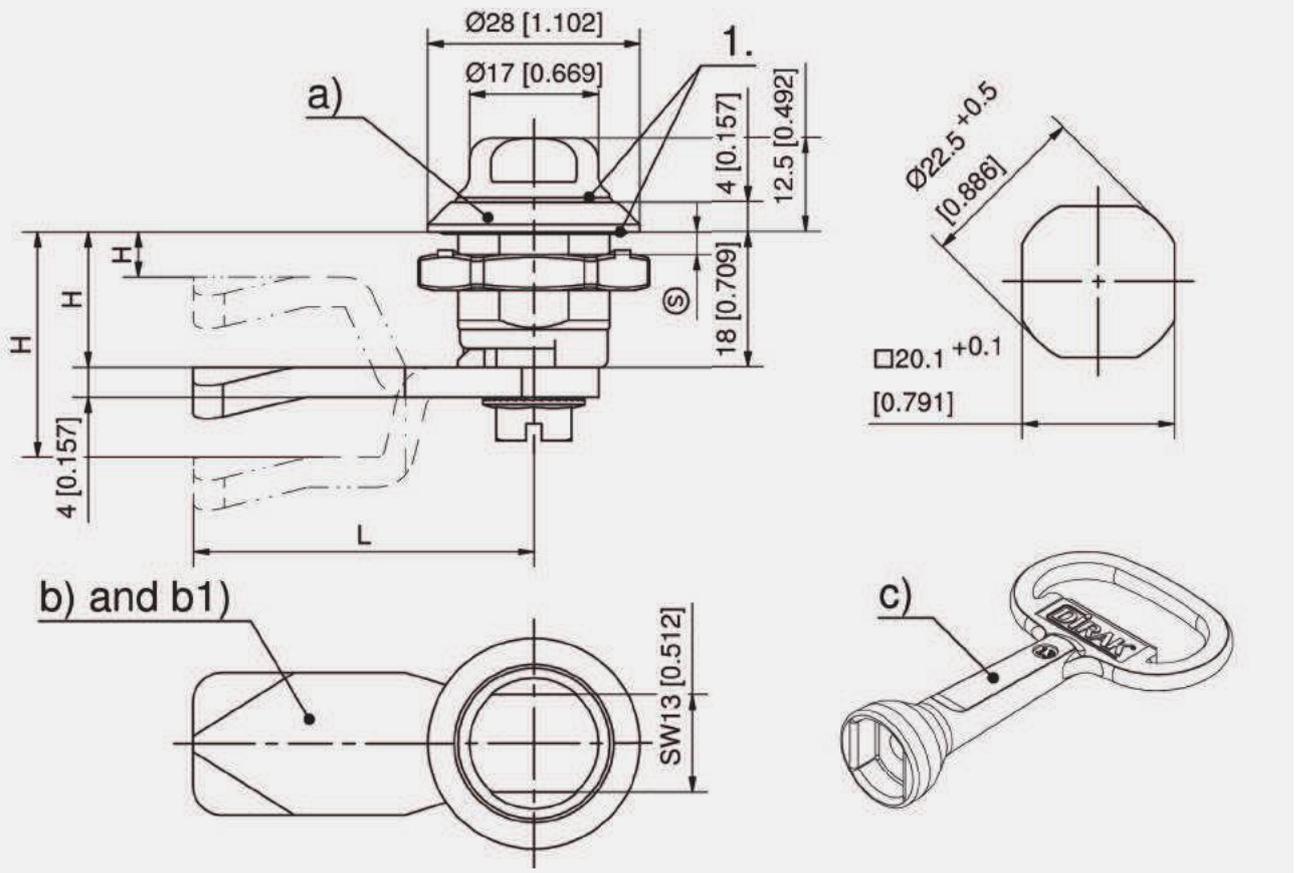
- Meets hygiene requirements acc. to DIN EN ISO 14159 and DIN EN 1672-2.
- Easy to clean.
- IP67 / 69K according to DIN EN 60529 / DIN 40050.
- O-rings (FDA conform) prevent dirt deposits and penetration of liquids.
- RH / LH application.

Material and surface

Housing, insert and grounding nut: stainless steel AISI 316L
Cam and serrated screw: stainless steel AISI 304
O-rings: silicone, FDA conform, red or blue

Note

(S) = max. 8 mm
 1. = O-rings



Quarter-turn

	Part Number	Insert	Housing length	Material	Grounding type	Installation type	Version
a)	100-9501.00-00000	SW13	L18	stainless steel	Grounding nut	screw-on	red o-ring
a)	100-9501.00-00001	SW13	L18	stainless steel	Grounding nut	screw-on	blue o-ring

	204-0140.39-05010	Female key hollow SW13
--	-------------------	------------------------

Assembly options	Part Number
Assembling cam with o-ring	200-0002.00-00000



Specially developed Hygiene stainless steel Quarter-turn with T-handle (HD, Hygienic design), for applications in the food sector and hygienic areas.

Features

- Tested according to: GS-NV 2:2013/06 Principles for the testing of food processing machines GS-NV 6:2013/06 Principles for the testing of hygiene requirements. Machine Ordinance: DIN EN 1672-2:2009.
- DGUV Test Certificate NV 13090.
- Dirt resistant and easy to clean by means of polished surface and transition radii.
- RH / LH application.
- IP 65/67/69K according to DIN EN 60529 / DIN 40050.

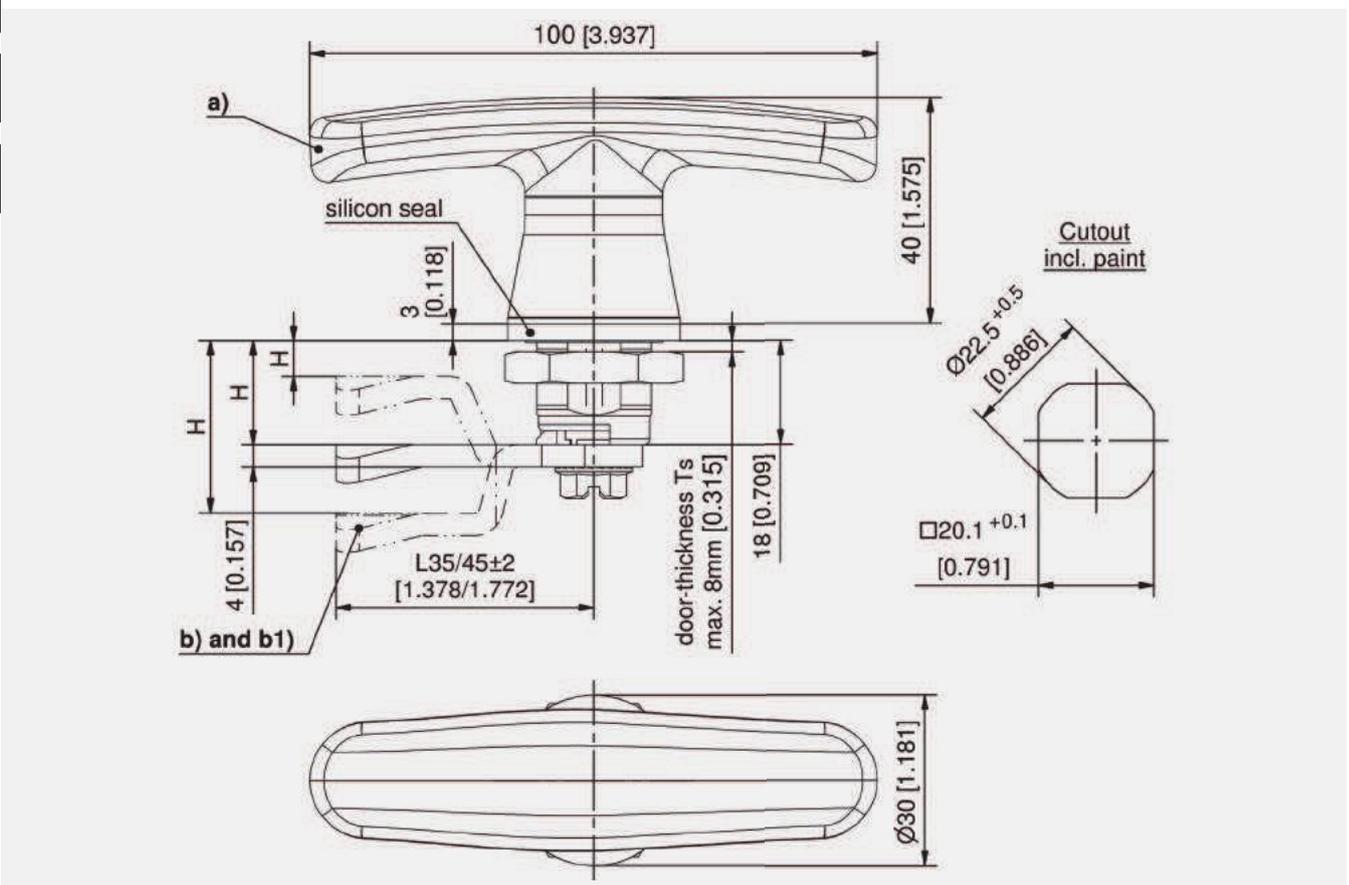
Material and surface

Housing and Handle: stainless steel AISI 316 L
Grounding nut and serrated screws: stainless steel
Seal: silicone, blue, FDA conform (Food and Drug Administration)

Note

Cam can be delivered pre-assembled upon request. A pre-assembled Quarter-Turn can be installed in the cutout.

(S) = max. 8 mm



Hygiene Quarter-turn with T-Handle

Part Number	Material	Grounding type
a) 100-9313.00-00000	stainless steel	Grounding nut

Specially developed Hygiene stainless steel Quarter-turn with L-Handle (HD, Hygienic design), for applications in the food sector and hygienic areas.

Features

- Tested according to: GS-NV 2:2013/06 Principles for the testing of food processing machines GS-NV 6:2013/06 Principles for the testing of hygiene requirements. Machine Ordinance: DIN EN 1672-2:2009
- DGUV Test Certificate NV 13090.
- Dirt resistant and easy to clean by means of polished surface and transition radii.
- RH / LH application.
- IP 65/67/69K according to DIN EN 60529 / DIN 40050.

Material and surface

Housing and Handle: stainless steel AISI 316L

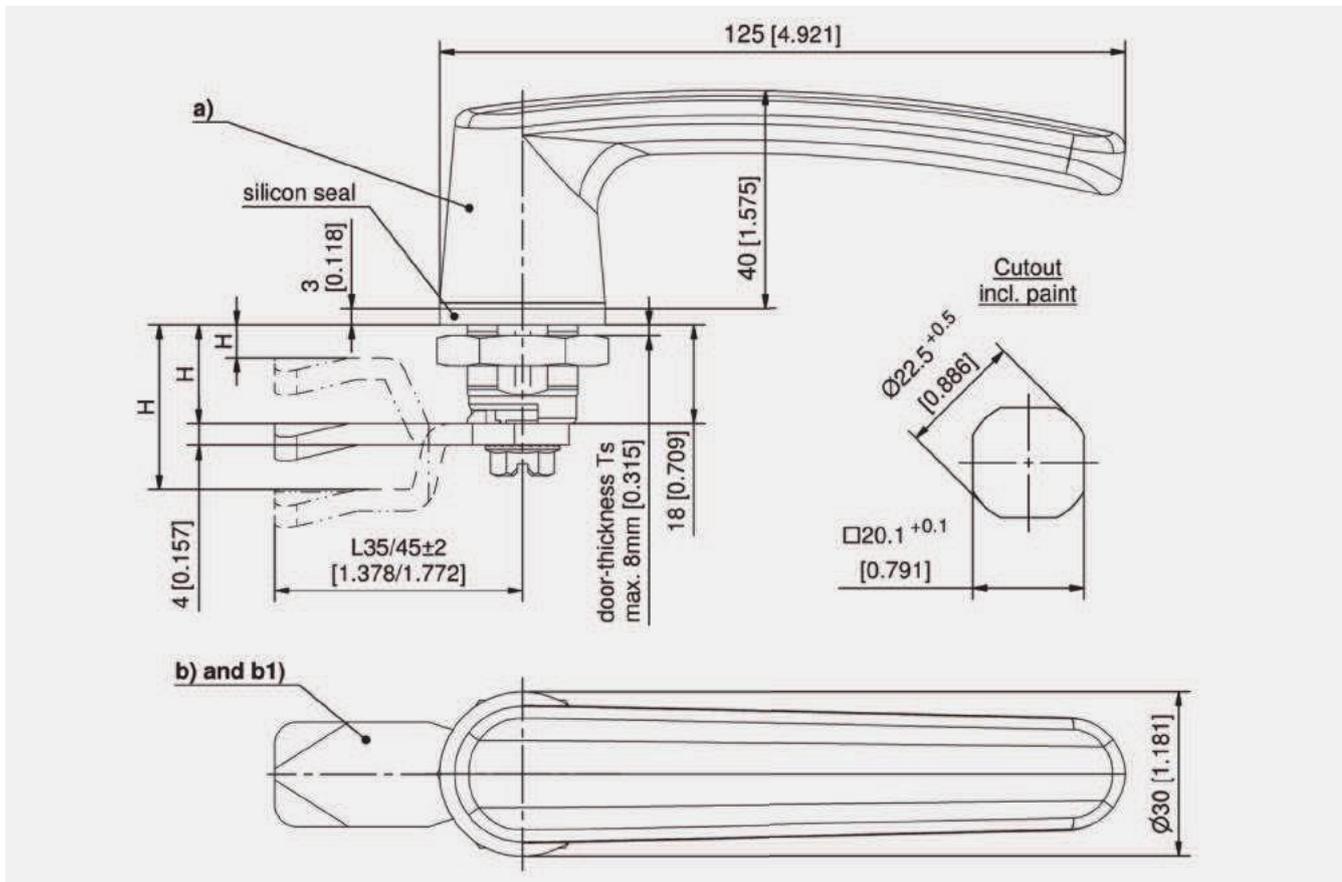
Grounding nut and serrated screws: stainless steel

Seal: Silicon, blue, FDA conform (Food and Drug Administration)

Note

Cam can be delivered pre-assembled upon request. A pre-assembled Quarter-Turn can be installed in the cutout.

(S) = max. 8 mm



Hygiene Quarter-turn with L-Handle

	Part Number	Material	Grounding type
a)	100-9416.00-00000	stainless steel	Grounding nut



Specially developed stainless steel Hygiene Compression Latch (HD, Hygienic Design) with insert square SW13, for applications in the food sector and hygienic areas.

Features

- Compression 4 mm.
- Vibration-proof according to DIN EN 61373.
- The complete Quarter-Turn is certified and tested according to: GS-NV 2:2013/06 Principles for the testing of food processing machines GS-NV 6:2013/06 Principles for the testing of hygiene requirements. Machine Ordinance: DIN EN 1672-2:2009.
- DGUV Test Certificate NV 13090.
- IP 65/67/69K according to DIN EN 60529 / DIN 40050.

Material and surface

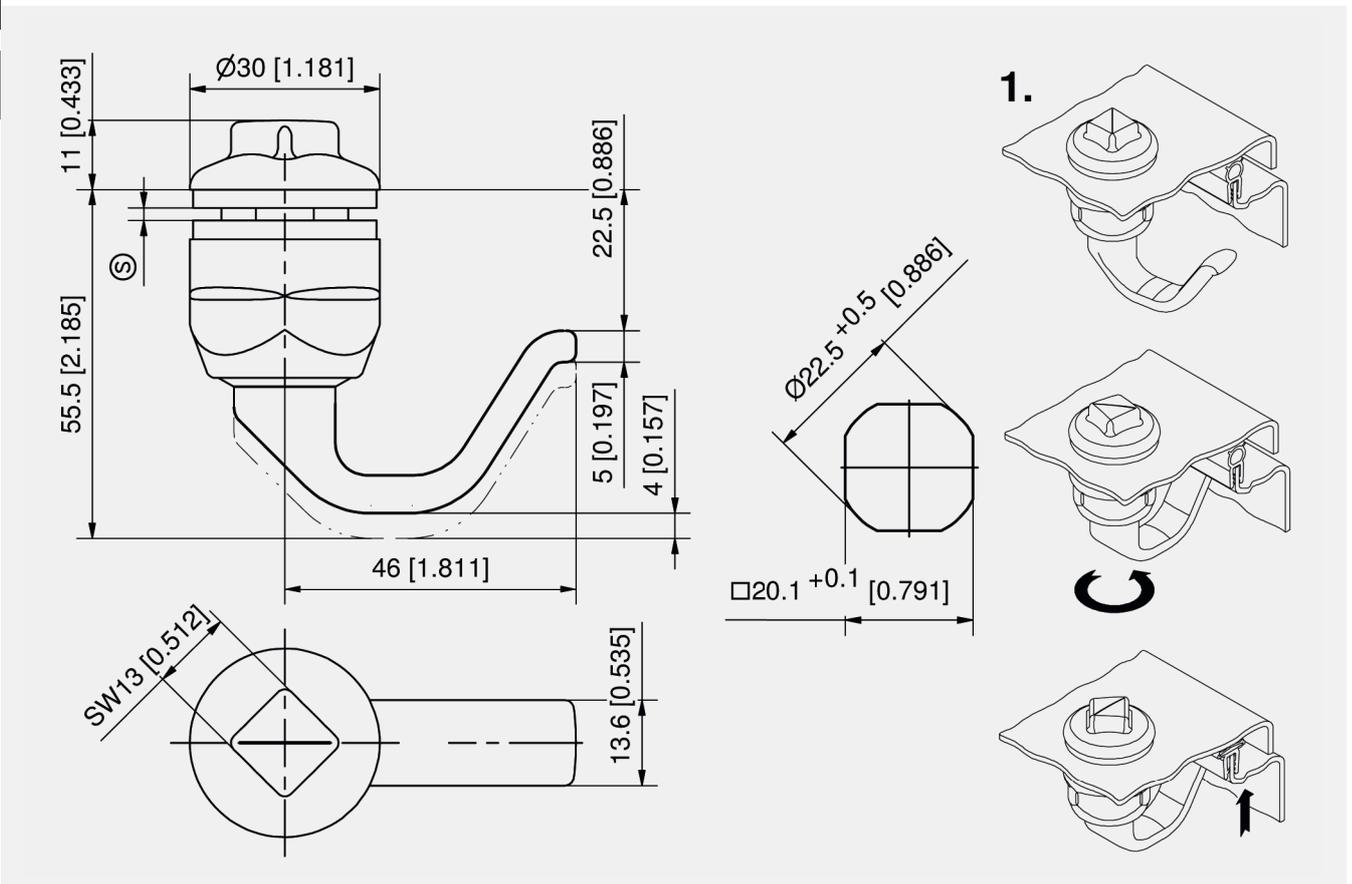
Housing, insert, nut, cam: stainless steel AISI 316L
Seal: silicone, blue, FDA conform (Food and Drug Administration)

Note

The compression latch is delivered with assembled cam. Can be installed completely.

(S) = max. 4 mm

1) Operation



Hygiene compression latch

Part Number	Insert	Door-thickness	Installation type	Version	Compression
100-9504.00-00000	SW13	max. 4 mm	screw-on	RH	4
100-9505.00-00000	SW13	max. 4 mm	screw-on	LH	4
* 204-0140.39-05010	Female key hollow SW13				

certificate no. NV 13090 dated 27.06.2013
--

Translation

DGUV Test Certificate

Name and address of the holder of the certificate: (customer)	DIRAK Dieter Ramsauer Konstruktionselemente GmbH Königsfelder Str. 1 D 58256 Ennepetal
Name and address of the manufacturer:	dto.
Product designation:	HD-Drehriegel
Type:	Drehriegel für Lochbild 20,1 x 22,5
Intended purpose:	see associated test report
Testing based on:	Hygiene requirements: GS-NV 2:2013/06 Principles for the testing of food processing machines GS-NV 6:2013/06 Principles for the testing of hygiene requirements Neunte Verordnung zum Produktsicherheitsgesetz (Maschinenverordnung) DIN EN 1672-2:2009
Remarks:	The certificate refers to the conception of the product described in the associated test report. In das DGUV Test-Zeichen ist außer der Bescheinigungs-Nr. auch der Hinweis "Hygiene geprüft" einzufügen.
The type tested complies with the test basis specified above. The holder of the certificate is entitled to affix the DGUV Test-mark shown overleaf to the products complying with the type tested, including the specification given under the heading 'remarks'.	
The present certificate is valid until:	26.06.2018
Further provisions concerning the validity, the extension of the validity and other conditions are laid down in the Rules of Procedure for Testing and Certification of August 2012.	

.....
Signature (Zertifizierer)

Postal address: Postfach 10 04 41 • 68136 Mannheim • Office: Dynamostraße 7-11 • 68165 Mannheim
 Phone: 0621 4456-3430 • Fax: 0800197755316-625 • E-Mail: maschinensicherheit@bgn.de • www.pz.bgn.de
 Our reference: 612.17 Bai/Rm • Produktschlüsselnummer: 91011



Elegant, low profile Quarter-turn with housing lengths 18, 30, 36 and 50 mm and marked red/green (padlock) on the housing top.

Features

- Please configure the Quarter-turn with insert and cam.
- Housing L18 is water- and dust-tight according to IP65 DIN EN 60529. It can reach IP67 DIN EN 60529 by additional O-ring (200-1002.00-00000).
- Housings L30 to L50 can reach IP65/67 DIN EN 60529 by additional O-ring (839-3771.00-00935).

Material and surface

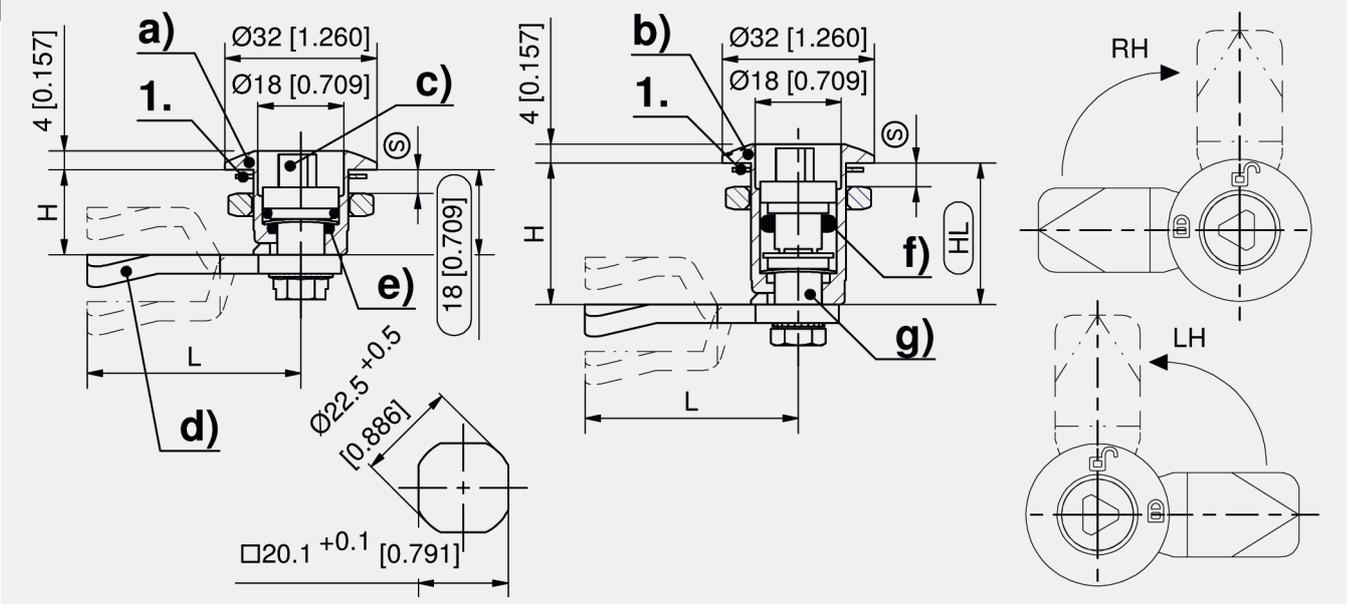
Housing, insert, grounding nut: stainless steel AISI 316L

Flat external seal: NBR

Note

Adapter sets can consist of one or more separate extensions. A pre-assembled Quarter-turn can be installed through the cutout.

- 1. = Flat external seal
- c) = Insert
- d) = Cam
- e) = O-ring 10 x 2.0 mm
- f) = O-ring 9 x 3.5 mm
- g) = Adapter set



Housing with latched / unlatched indicator, flat seal and grounding nut

	Part Number	Housing length	Door-thickness	Material	Grounding type	Version	suitable adapter set
a)	100-9092.RH-00000	HL18	max. 8 mm	stainless steel	Grounding nut	RH	
a)	100-9092.LH-00000	HL18	max. 8 mm	stainless steel	Grounding nut	LH	
b)	100-9093.RH-00000	HL30	max. 20 mm	stainless steel	Grounding nut	RH	L14
b)	100-9093.LH-00000	HL30	max. 20 mm	stainless steel	Grounding nut	LH	L14
b)	100-9094.RH-00000	HL36	max. 26 mm	stainless steel	Grounding nut	RH	L21
b)	100-9094.LH-00000	HL36	max. 26 mm	stainless steel	Grounding nut	LH	L21
b)	100-9095.RH-00000	HL50	max. 40 mm	stainless steel	Grounding nut	RH	L33
b)	100-9095.LH-00000	HL50	max. 40 mm	stainless steel	Grounding nut	LH	L33

✳	100-9019.00-00000	Adapter set L14
	100-9020.00-00000	Adapter set L21
	100-9022.00-00000	Adapter set L33

	Function extension	Part Number
+	O-ring 9 x 3.5 mm	839-3771.00-00935
	O-ring 10 x 2.0 mm	200-1002.00-00000

	Assembly options	Part Number
⚙	Assembling cam with o-ring	200-0002.00-00000
	Assembling adapter, with o-ring	200-0004.00-00000

Cylinder Quarter-turn stainless steel version with grounding nut.

Features

- Version a)
- RH / LH application.
- For stability the cylinder barrel is secured by a nut DIN 934.
- The wave washer fitted between housing and cam, prevents the cam from moving downwards in un-locked position and neutralizes possible cumulative play.

- Version a1) and a2)
- To insure turns freely, the slam-cam is secured by a shoulder screw.

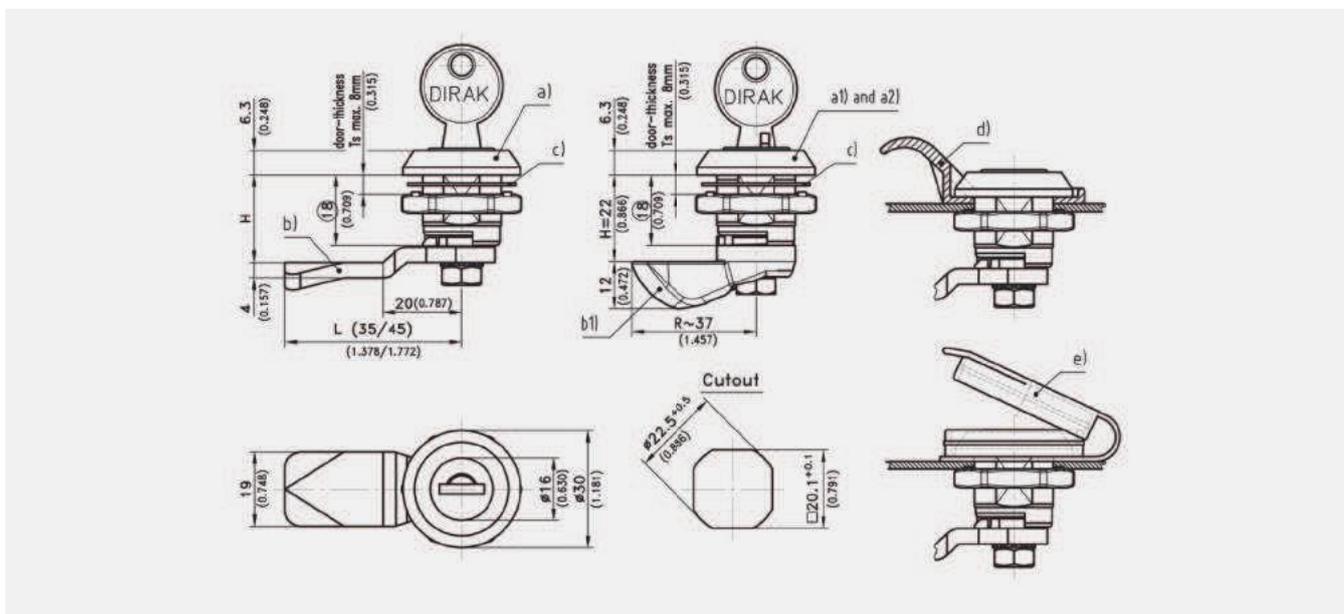
Material and surface

Housing, grounding nut, adapter, cylinder barrel, hexagon nut and wave washer: stainless steel AISI 316

Note

Water- and dust-tight according to IP65 DIN EN 60529 only with dust cap, see product system 1-270.

(S) = max. 8 mm



Cylinder Quarter-turn

	Part Number	Closing	Housing length	Door-thickness	Material	Grounding type	Installation type
a)	200-9232.00-00000	keyed alike DIRAK 1333	L18	max. 8 mm	stainless steel	Grounding nut	screw-on
a)	200-9233.00-00000	keyed different	L18	max. 8 mm	stainless steel	Grounding nut	screw-on

Cylinder Quarter-turn, with slam cam and adapter

	Part Number	Closing	Housing length	Door-thickness	Material	Grounding type	Installation type	Version
a1)	200-9236.00-01333	keyed alike DIRAK 1333	L18	max. 8 mm	stainless steel	Grounding nut	screw-on	RH
a1)	200-9236.00-99999	keyed different	L18	max. 8 mm	stainless steel	Grounding nut	screw-on	RH
a2)	200-9237.00-01333	keyed alike DIRAK 1333	L18	max. 8 mm	stainless steel	Grounding nut	screw-on	LH
a2)	200-9237.00-99999	keyed different	L18	max. 8 mm	stainless steel	Grounding nut	screw-on	LH

	200-0901.00-00000	Scratch protection 20.1, Ø22.5 mm					
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RoHS
WEEE



Features

- a), a1) = straight cam (xx)
- (xx) = Housing length, measured from the upper edge of the panel to the upper edge of the cam.
- b), b1) = negatively bent cam (upwards)
- c), c1) = positively bent cam (downwards)

Material and surface

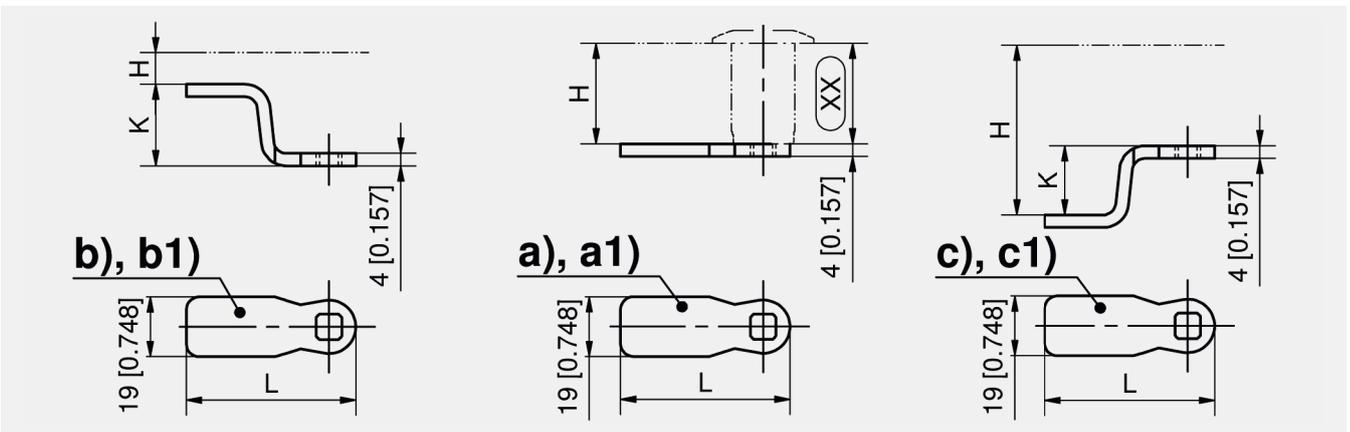
Cams: stainless steel AISI 304

Note

Formula for H-dimension =

For negatively bent cams K will be subtracted from (xx).

For positively bent cams K will be added to (xx).



Cam, length 35 mm, without stop

	Part Number	Material	Length L	b) negatively bent K =	c) positively bent K =
	100-0535.80-00022	stainless steel	L35	26	22
	100-0535.80-00020	stainless steel	L35	24	20
	100-0535.80-00018	stainless steel	L35	22	18
	100-0535.80-00016	stainless steel	L35	20	16
	100-0535.80-00014	stainless steel	L35	18	14
	100-0535.80-00012	stainless steel	L35	16	12
	100-0535.80-00010	stainless steel	L35	14	10
	100-0535.80-00008	stainless steel	L35	12	8
	100-0535.80-00006	stainless steel	L35	10	6
	100-0535.80-00004	stainless steel	L35	8	4
	100-0535.80-00002	stainless steel	L35	6	2
a)	100-0535.80-00000	stainless steel	L35	00 straight	00 straight

Cam, length 45 mm, without stop

	Part Number	Material	Length L	b1) negatively bent K =	c1) positively bent K =
	100-0545.80-00022	stainless steel	L45	26	22
	100-0545.80-00020	stainless steel	L45	24	20
	100-0545.80-00018	stainless steel	L45	22	18
	100-0545.80-00016	stainless steel	L45	20	16
	100-0545.80-00014	stainless steel	L45	18	14
	100-0545.80-00012	stainless steel	L45	16	12
	100-0545.80-00010	stainless steel	L45	14	10
	100-0545.80-00008	stainless steel	L45	12	8
	100-0545.80-00006	stainless steel	L45	10	6
	100-0545.80-00004	stainless steel	L45	8	4
	100-0545.80-00002	stainless steel	L45	6	2
a1)	100-0545.80-00000	stainless steel	L45	00 straight	00 straight

3- and 4-Point cam adapter alternative to 2- or 3-point cam, see product system 7-105.

Features

- For use in combination with standard cams see product-system 1-102 and 7-080, used for 3- and 4-point latching applications.
- For 4-point application use additional link. For those applications, where beyond the standard control of 2 locking-rods, an additional rod can be used (e.g. controlling a switch or defeater-mechanism).

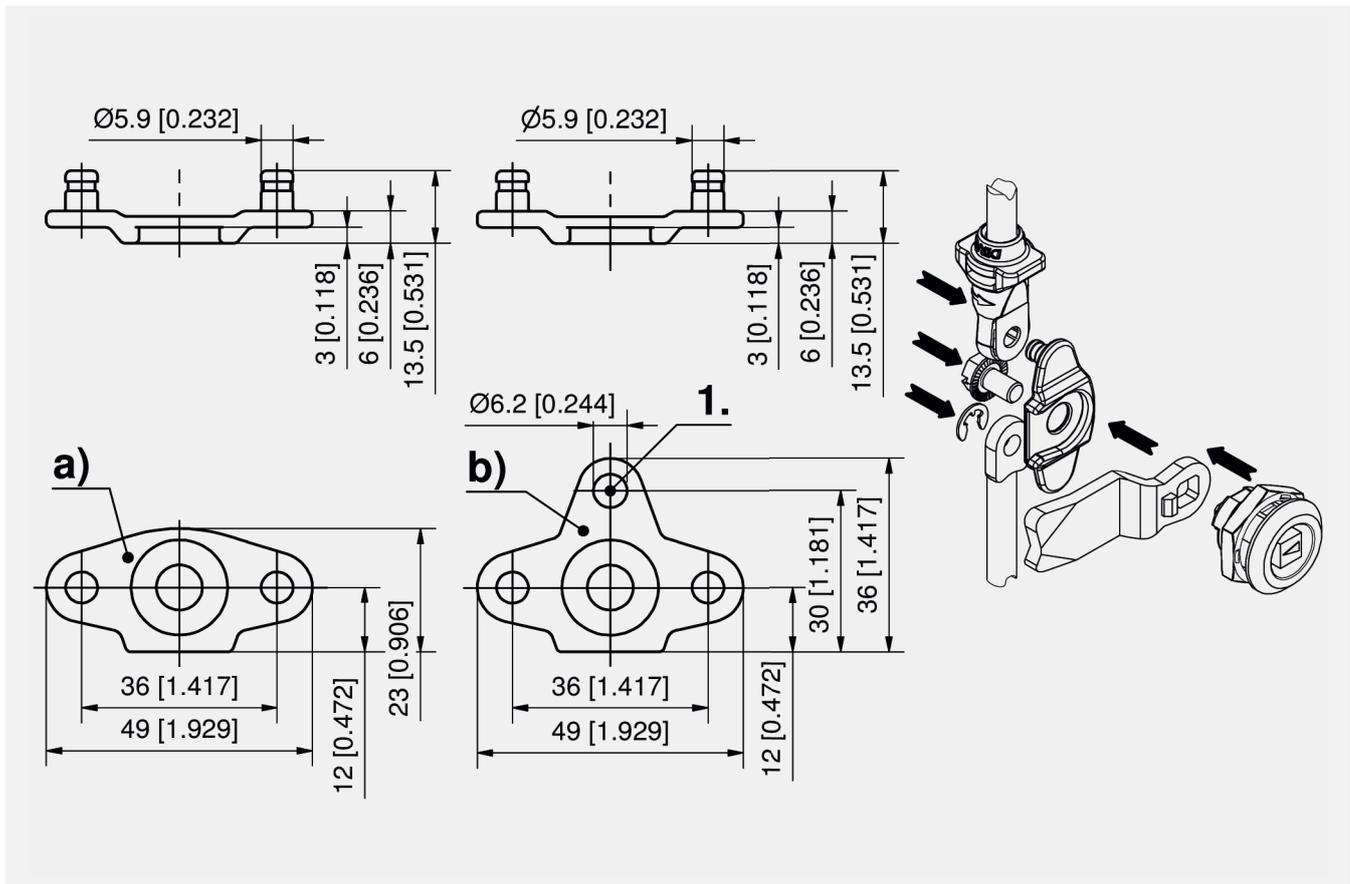
Material and surface

Cam adapter: stainless steel
AISI 304

Note

The adapter is attached to the back of the cam and does **not** affect the H-dimension!

1. = Loop



Adapter for 3- or 4-point Cam

	Part Number	Material	3-point cam	4-point cam
a)	207-9590.00-00000	stainless steel	Yes	
a)	207-9591.00-00000	stainless steel	Yes	
b)	207-9592.00-00000	stainless steel	Yes	Yes
b)	207-9593.00-00000	stainless steel	Yes	Yes



Features

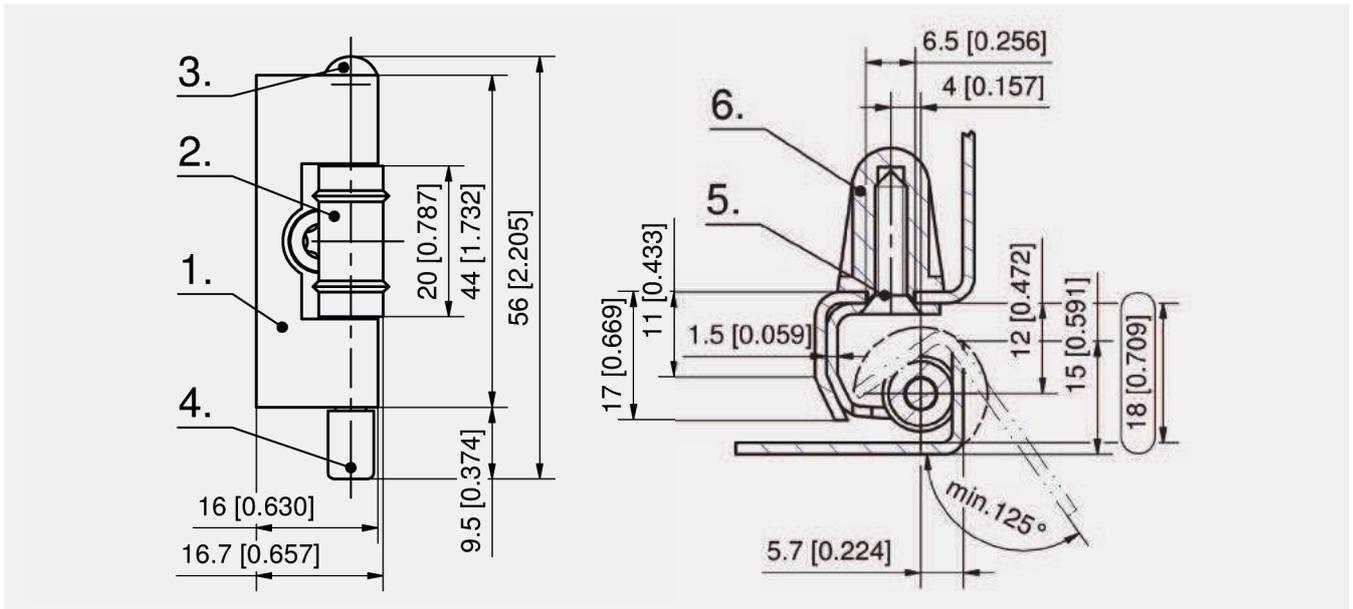
- For surface mounted doors.
- Hinge concealed.
- Door bending from 16 to 18 mm.
- RH / LH application.
- 125° Opening angle.
- Pin secured by bushing.
- Fastening material included.

Material and surface

- Frame-part:** stainless steel AISI 304
- Pin:** stainless steel AISI 301
- Weld-on roll for spot welding:** stainless steel AISI 303
- Fitting block:** PA6, black
- Securing bushing:** PE-LD black
- Self-tapping screw:** stainless steel

Note

1. = Pin
2. = Weld-on roll
3. = Frame-part
4. = Securing bushing
5. = Fitting block PA
6. = Self-tapping screw



Concealed Hinge

Part Number	Version	Material Pin	Installation type
216-9128.00-00000	Screw T-20 ISO 14586 Form C 4.2 x 19 mm	stainless steel	screw- / weld-on
216-9113.00-00000	Screw Phillips DIN 7982 ISO 7050 4.2 x 19 mm	stainless steel	screw- / weld-on

Features

- For surface mounted doors.
- Hinge concealed.
- Door bending 18 mm.
- RH / LH application.
- 120° Opening angle.
- Hinge pin secured by sleeve.
- Frame-part with force fitted stud M5 x 12.
- Door-part weld-on with prepared welding spots.

Material and surface

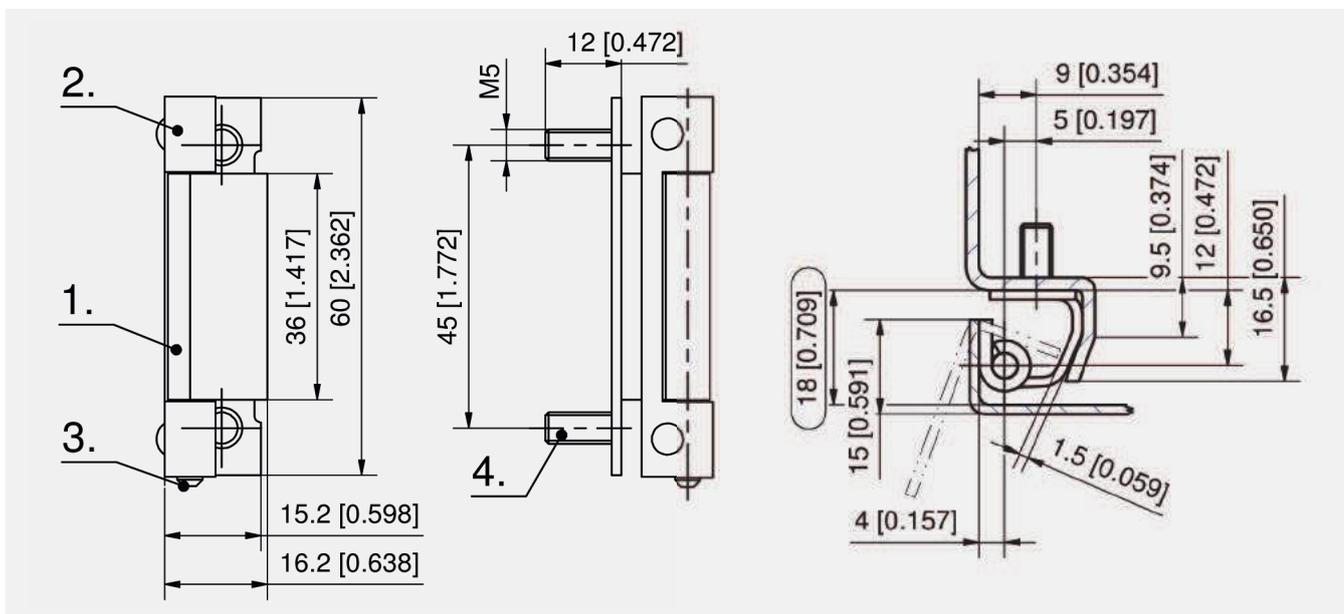
Frame-part, door-part: stainless steel AISI 304

Knurled pin: stainless steel AISI 303

Stud: stainless steel AISI 410

Note

1. Frame-part
2. Door-part with weld projections ISO 8167-P5
3. Pin
4. Threaded stud M5 x 12



Concealed Hinge

Part Number	Material Pin	Installation type
216-9033.00-00000	stainless steel	screw- / weld-on

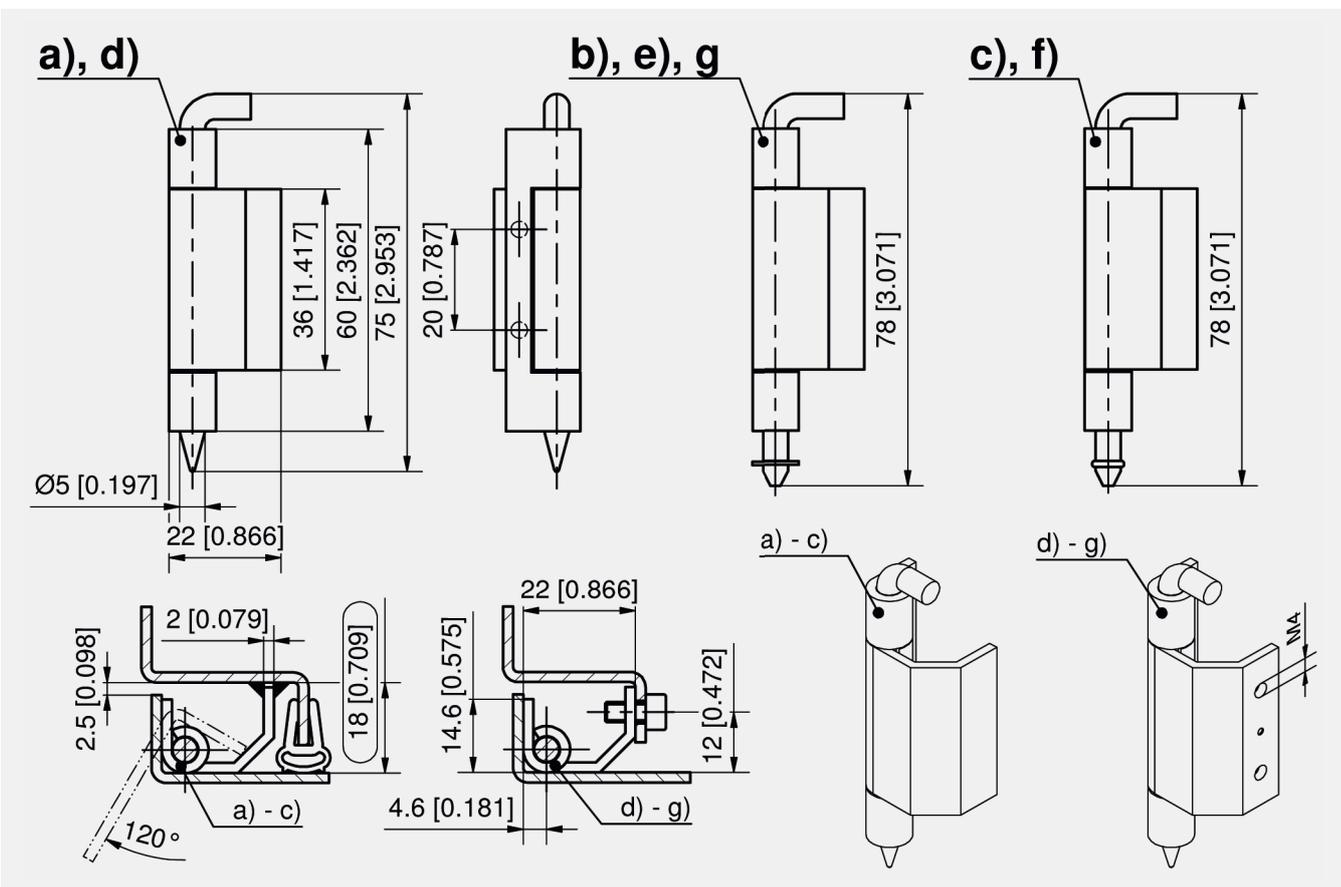


Features

- For surface mounted doors.
- Hinge concealed.
- Door bending 18 mm.
- RH / LH application.
- 120° Opening angle.
- Frame-part: screw-on or weld-on.

Material and surface

Hinge-parts: stainless steel
AISI 304 or AISI 316L
Pins: stainless steel AISI 303 or 316L



Concealed Hinge

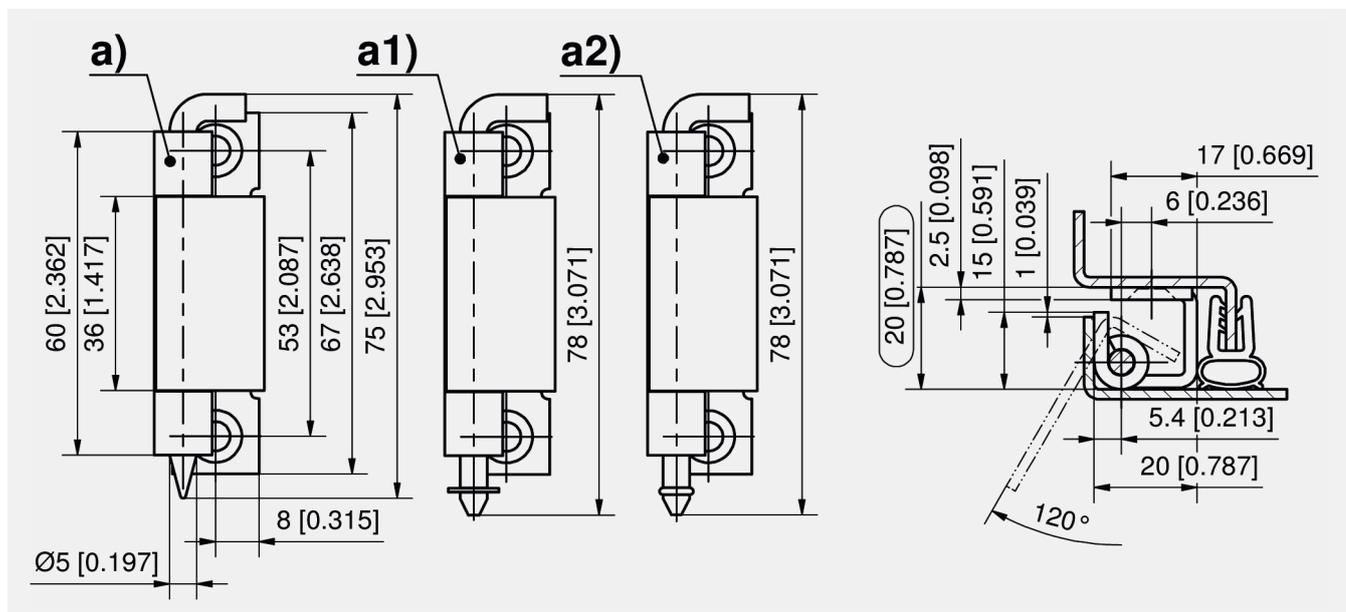
	Part Number	Pin version	Material Pin	Installation type	Material Hinge-part
a)	216-9101.00-00000	without groove	AISI 303	weld-on	AISI 304
b)	216-9109.00-00000	with groove incl. retaining ring	AISI 303	weld-on	AISI 304
c)	216-9109.00-00001	with groove incl. o-ring	AISI 303	weld-on	AISI 304
d)	216-9102.00-00000	without groove	AISI 303	screw- / weld-on	AISI 304
e)	216-9110.00-00000	with groove incl. retaining ring	AISI 303	screw- / weld-on	AISI 304
f)	216-9110.00-00001	with groove incl. o-ring	AISI 303	screw- / weld-on	AISI 304
f)	216-9121.00-00001	with groove incl. o-ring	AISI 316L	screw- / weld-on	AISI 316L
g)	216-9121.00-00002	with groove incl. retaining ring	AISI 316L	screw- / weld-on	AISI 316L

Features

- For surface mounted doors.
- Hinge concealed.
- Door bending 18 mm.
- RH / LH application.
- 120° Opening angle.
- Fastening with countersunk screws M5.

Material and surface

- Hinge-parts and Pin:** stainless steel AISI 304
- a2)
- O-ring:** NBR



Concealed Hinge

	Part Number	Pin version	Material Pin	Installation type
a)	216-9115.00-00000	without groove	stainless steel	screw-on
a1)	216-9116.00-00000	with groove incl. retaining ring	stainless steel	screw-on
a2)	216-9116.00-00001	with groove incl. o-ring	stainless steel	screw-on

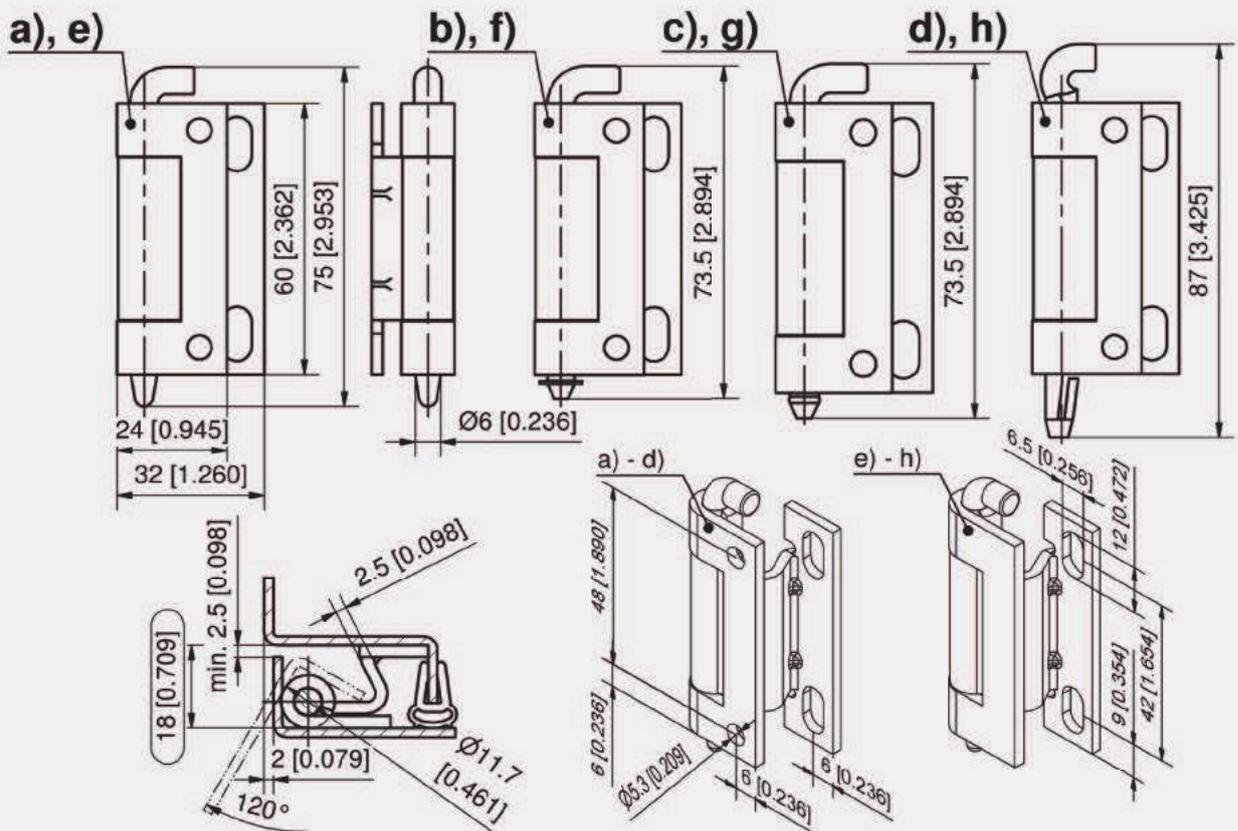


Features

- For surface mounted doors.
- Hinge concealed.
- RH / LH application.
- Door bending 18 mm.
- 120° Opening angle.
- Frame-part: screw-on.
- Door-part: weld-on or screw-on.
- The hinge can also be supplied with a self-securing POM pin which can be mounted upside-down for very short enclosures.

Material and surface

Hinge-part and Pin: stainless steel AISI 304
d) and h)
Pin: POM natural



Concealed Hinge

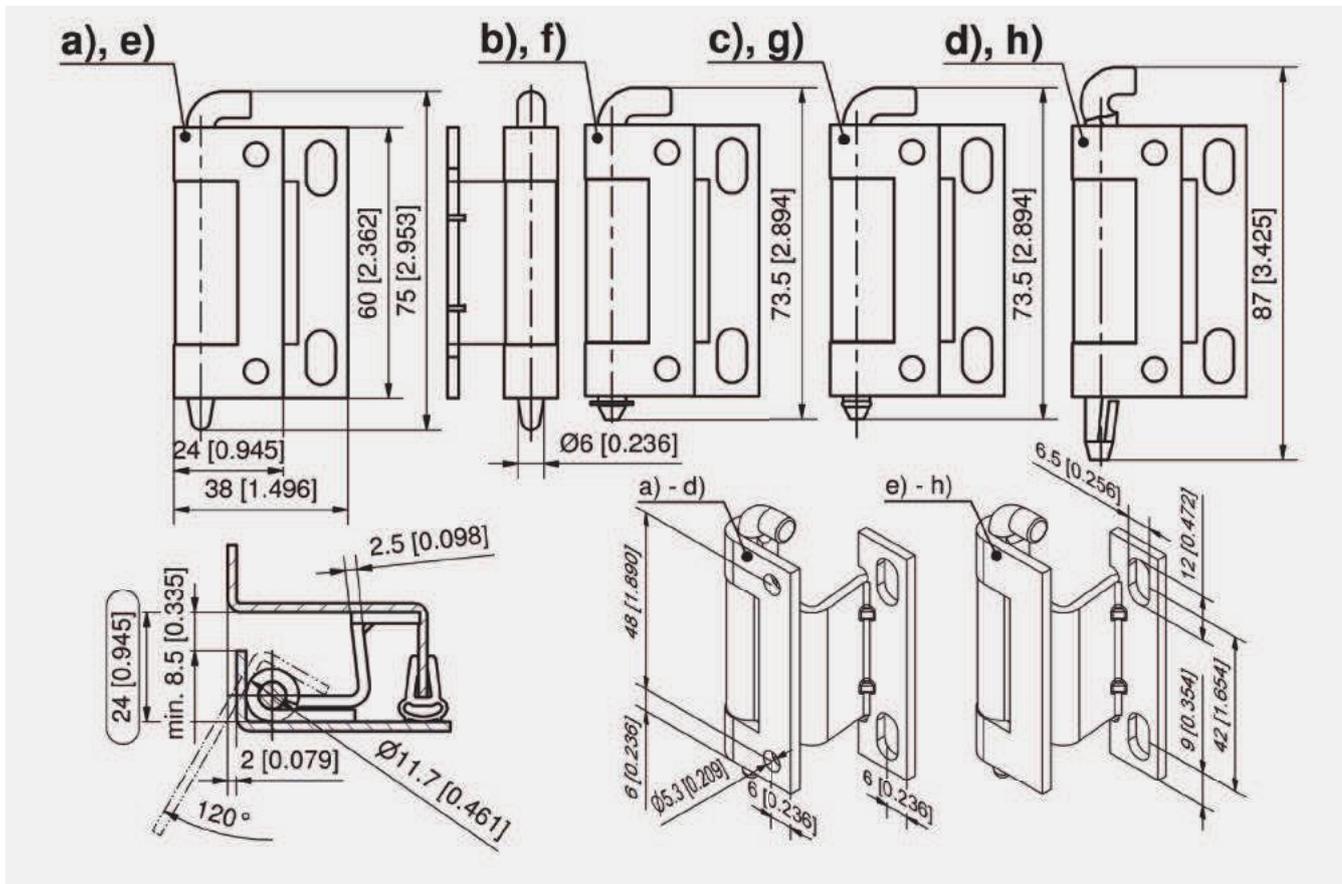
	Part Number	Installation type door-part	Pin version	Material Pin
a)	216-9103.00-00000	screw-on	without groove	stainless steel
b)	216-9111.00-00000	screw-on	with groove for retaining ring	stainless steel
c)	216-9111.00-00001	screw-on	with groove incl. o-ring	stainless steel
d)	216-9105.00-00000	screw-on	self-securing	POM
e)	216-9120.00-00000	weld-on	without groove	stainless steel
f)	216-9125.00-00000	weld-on	with groove for retaining ring	stainless steel
g)	216-9125.00-00001	weld-on	with groove incl. o-ring	stainless steel
h)	216-9123.00-00000	weld-on	self-securing	POM

Features

- For surface mounted doors.
- Hinge concealed.
- Door bending 24 mm.
- RH / LH application.
- 120° Opening angle.
- Frame-part: screw-on.
- Door-part: weld-on or screw-on.
- The hinge can also be supplied with a self-securing POM pin which can be mounted upside-down for very short enclosures.

Material and surface

Hinge-parts and Pin: stainless steel AISI 304
 d) and h)
Pin: POM natural


Concealed Hinge

	Part Number	Installation type door-part	Pin version	Material Pin
a)	216-9104.00-00000	screw-on	without groove	stainless steel
b)	216-9112.00-00000	screw-on	with groove for retaining ring	stainless steel
c)	216-9112.00-00001	screw-on	with groove incl. o-ring	stainless steel
d)	216-9106.00-00000	screw-on	self-securing	POM
e)	216-9122.00-00000	weld-on	without groove	stainless steel
f)	216-9126.00-00000	weld-on	with groove for retaining ring	stainless steel
g)	216-9126.00-00001	weld-on	with groove incl. o-ring	stainless steel
h)	216-9124.00-00000	weld-on	self-securing	POM



Features

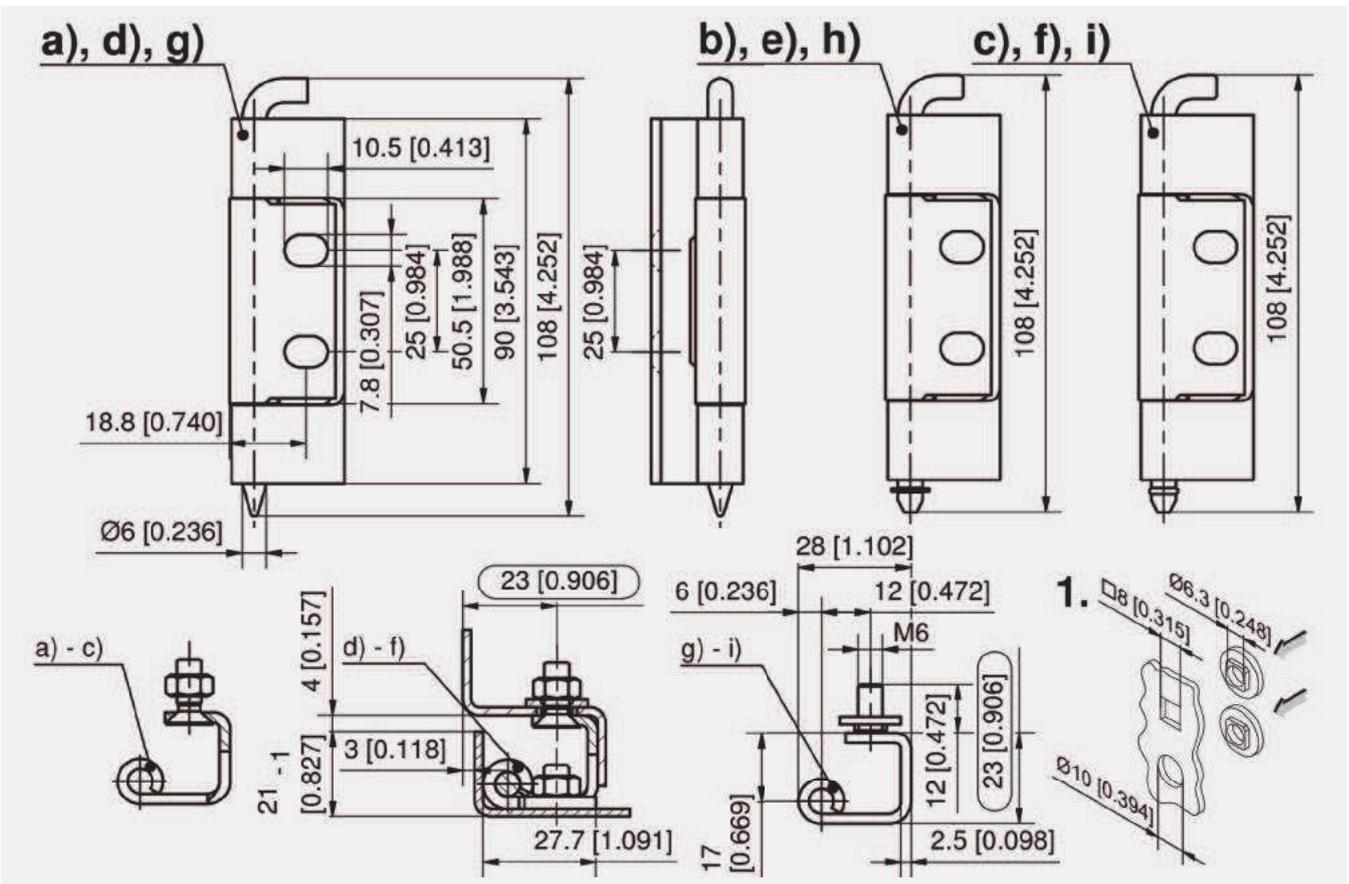
- For surface mounted doors.
- Hinge concealed.
- Door bending 23 mm.
- RH / LH application.
- 120° Opening angle.
- Door-part: weld-on or screw-on.

Material and surface

Frame-part, door-part, pin without groove and fastening washer: stainless steel AISI 304
Pin with groove: stainless steel AISI 303
Stud: stainless steel AISI 420
O-ring: NBR

Note

1. = Installation instruction for fastening washer.



Concealed Hinge

	Part Number	Frame-part	Cutouts in the frame	Pin version
a)	243-9203.00-00000	with countersunk holes for M6	Ø6.3 or M6	without groove
b)	243-9204.00-00000	with countersunk holes for M6	Ø6.3 or M6	with groove incl. retaining ring
c)	243-9204.00-00001	with countersunk holes for M6	Ø6.3 or M6	with groove incl. o-ring
d)	243-9201.00-00000	with holes for M6 + fastening washer	□8 or Ø10	without groove
e)	243-9202.00-00000	with holes for M6 + fastening washer	□8 or Ø10	with groove incl. retaining ring
f)	243-9202.00-00001	with holes for M6 + fastening washer	□8 or Ø10	with groove incl. o-ring
g)	243-9208.00-00000	with studs M6 + fastening washer	Ø6.3, □8, Ø10	without groove
h)	243-9209.00-00000	with studs M6 + fastening washer	Ø6.3, □8, Ø10	with groove incl. retaining ring
i)	243-9209.00-00001	with studs M6 + fastening washer	Ø6.3, □8, Ø10	with groove incl. o-ring

Features

- For surface mounted doors.
- Hinge concealed.
- Door bending 23 mm.
- RH / LH application.
- 120° Opening angle.
- By rotating the 1/4 turn, the pivot pin is released and the door can be removed by pulling it to the front. (see 2. and 3.)

Material and surface

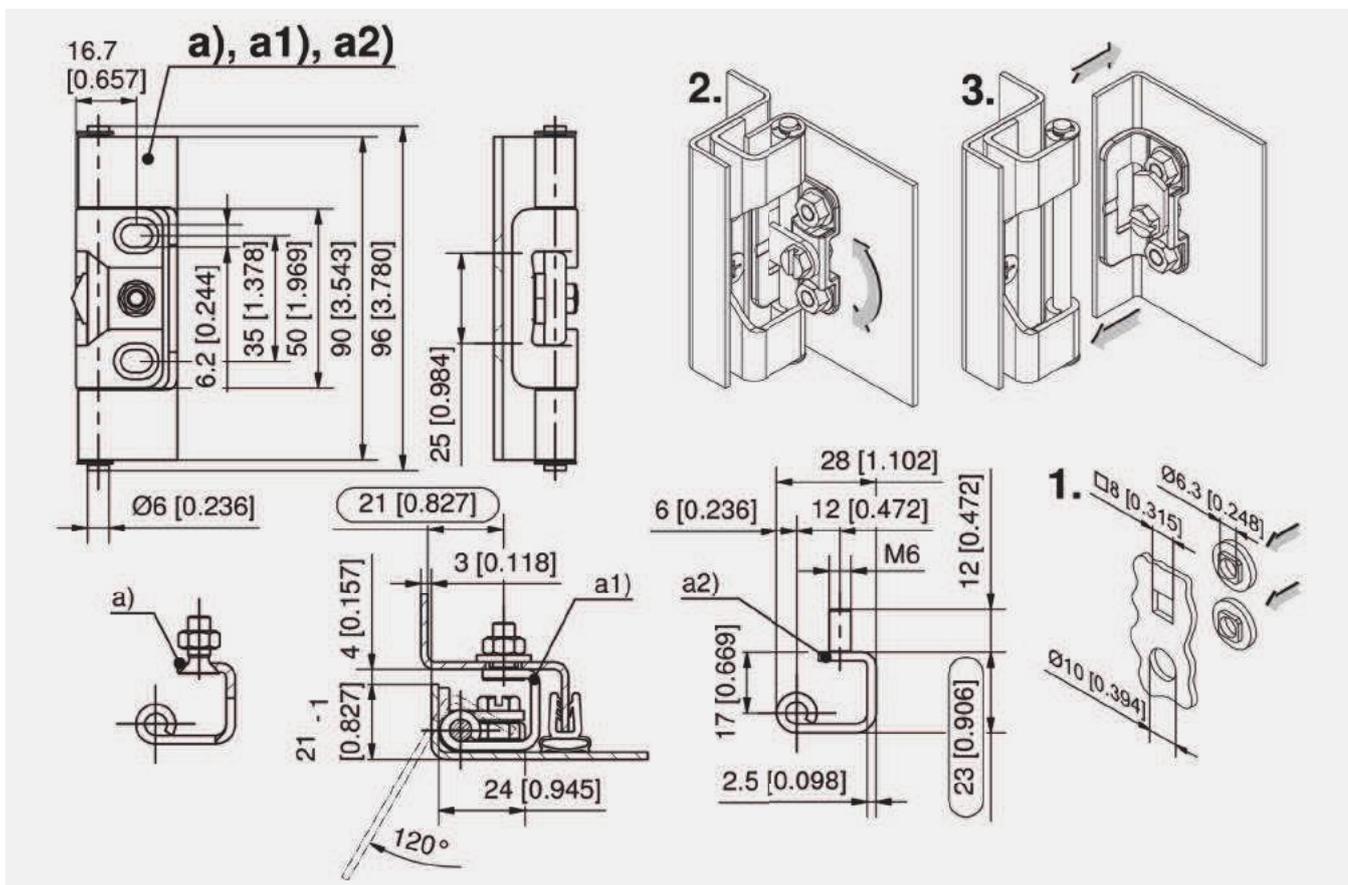
Frame-part, 1/4 turn and fastening washer: stainless steel AISI 304

Door-part: stainless steel AISI 316

Pin: stainless steel AISI 303

Note

1. = Installation instruction for fastening washer.



Concealed Hinge

	Part Number	Frame-part	Cutouts in the frame	Installation type
a)	243-9212.00-00000	with countersunk holes for M6	Ø6.3 or M6	screw-on
a1)	243-9213.00-00000	with holes for M6 + fastening washer	□8 or Ø10	screw-on
a2)	243-9211.00-00000	with pressed in pivot M6	Ø6.3, □8, Ø10	screw-on

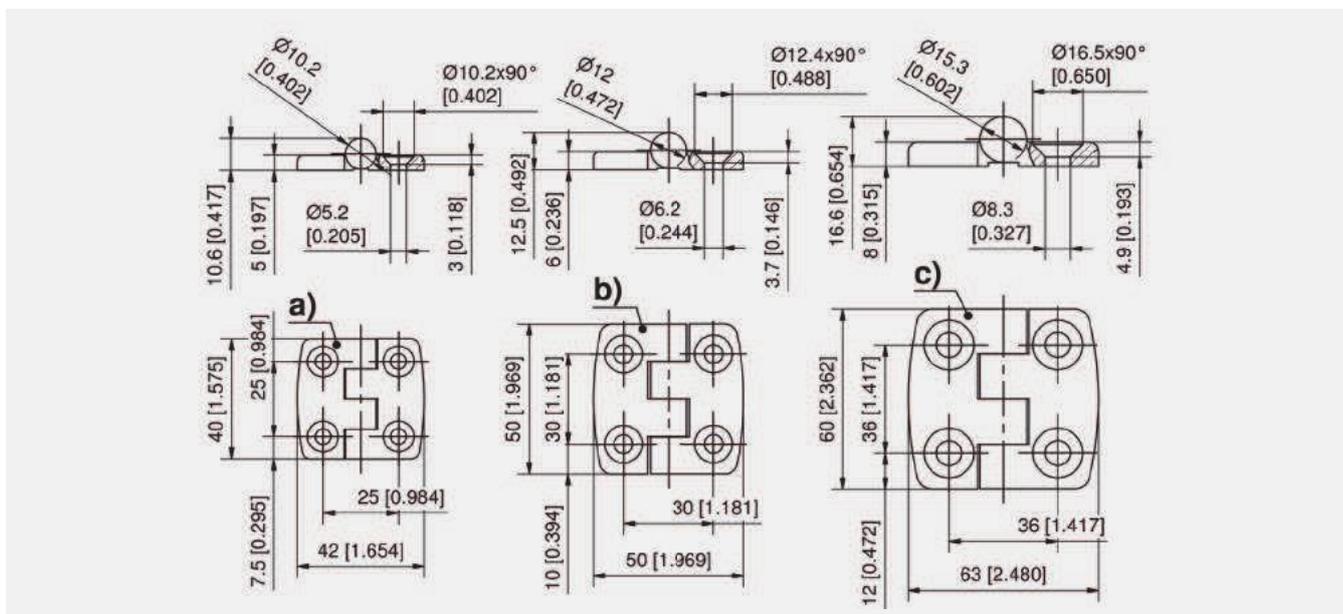


Features

- For nested doors.
- Hinge visible.
- RH / LH application.
- 180° Opening angle.
- For countersunk screws M5, M6 or M8 to DIN 7991.
- Vibration-proof.
- Vandalism safety due to both sides welded, not visible, hinge pin.

Material and surface

Hinge-parts and Pin: stainless steel AISI 316



Hinge

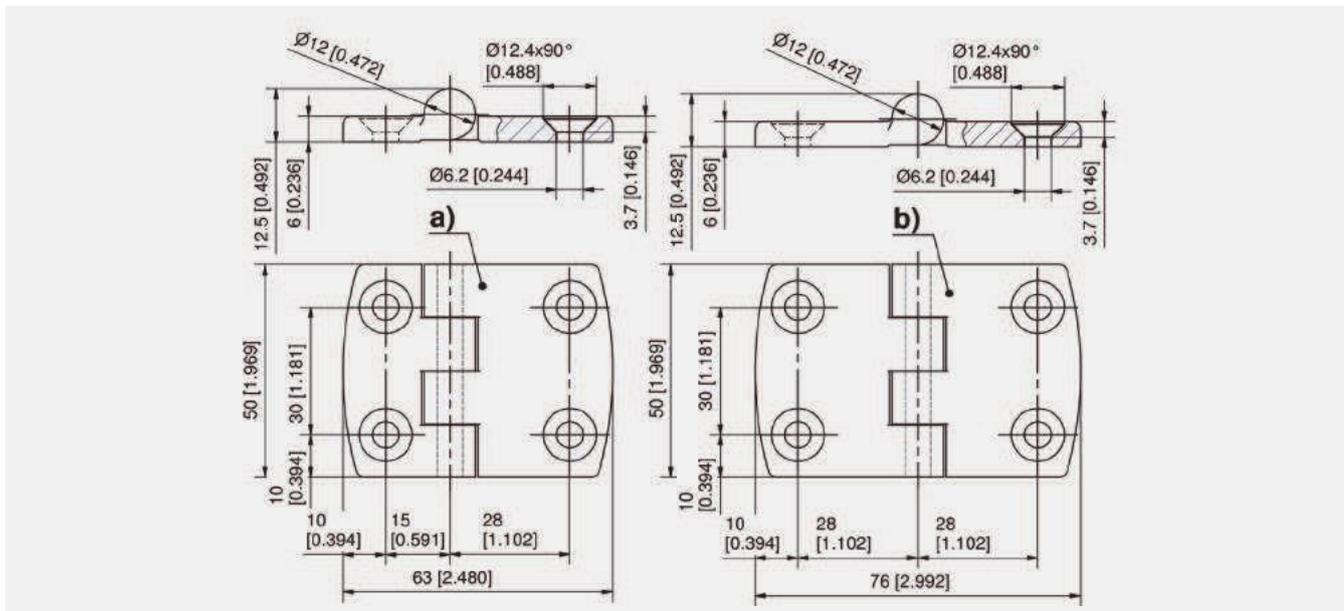
	Part Number	Pin version	Material Pin	Installation type	Dimension
a)	218-9309.00-00000	welded	stainless steel	screw-on	40 x 42 x 10.6
b)	218-9310.00-00000	welded	stainless steel	screw-on	50 x 50 x 12.5
c)	218-9311.00-00000	welded	stainless steel	screw-on	60 x 63 x 16.6

Features

- For nested doors.
- Hinge visible.
- RH / LH application.
- 270° Opening angle.
- For countersunk screws M6 to DIN 7991.
- Vibration-proof.
- Vandalism safety due to both sides welded, not visible, hinge pin.

Material and surface

Hinge-parts and Pin: stainless steel AISI 316



Hinge

	Part Number	Pin version	Material Pin	Installation type	Dimension
a)	218-9312.00-00000	welded	stainless steel	screw-on	50 x 63 x 12.5
b)	218-9313.00-00000	welded	stainless steel	screw-on	50 x 76 x 12,5



RoHS
WEEE



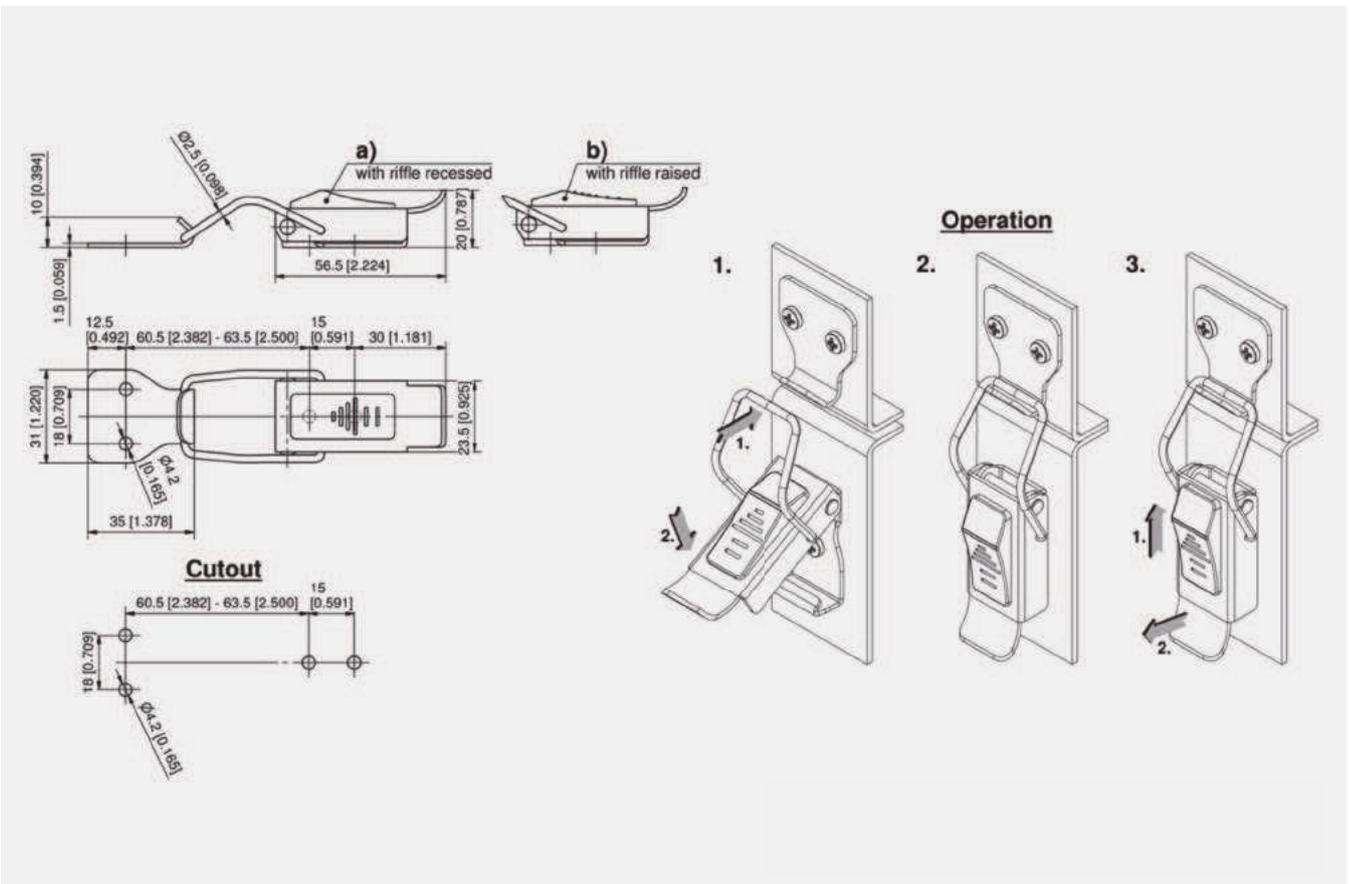
Locking system for industrial application.

Features

- Secure tightening and locking of two components.
- Clicks into place securely.
- Slider for releasing.
- Vibration-proof.
- The catch is included in the scope of delivery.
- Version a) with recessed raffle.
- Version b) with raised raffle.

Material and surface

Toggle-latch: stainless steel AISI 304
Release slider: stainless steel AISI 304 or ABS, red



Toggle-Latch

	Part Number	Version
a)	350-2080.00-00000	with stainless steel release slider
b)	350-2080.00-00001	with ABS release slider

Locking system for industrial application

Features

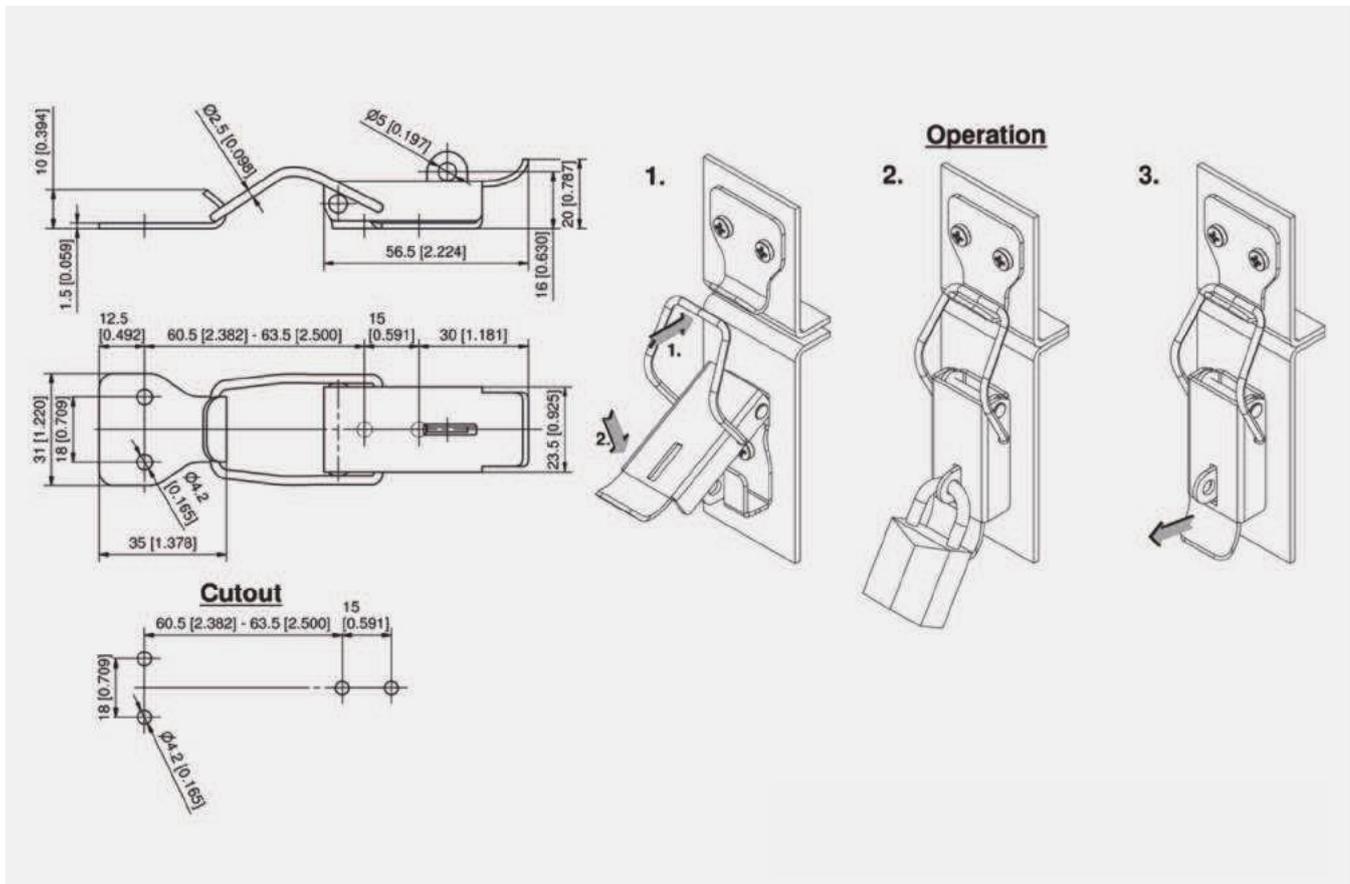
- Secure tightening and locking of two components.
- With eyelet for padlock.
- The catch is included in the scope of delivery.

Material and surface

Toggle-Latch: stainless steel
AISI 304



**RoHS
WEEE**



Toggle-Latch

Part Number	Version
350-2080.00-00002	with eyelet for padlock



RoHS
WEEE



Rod guide with adjustable height for 8 mm round rods, to compensate production tolerances, or if sealing has set.

Features

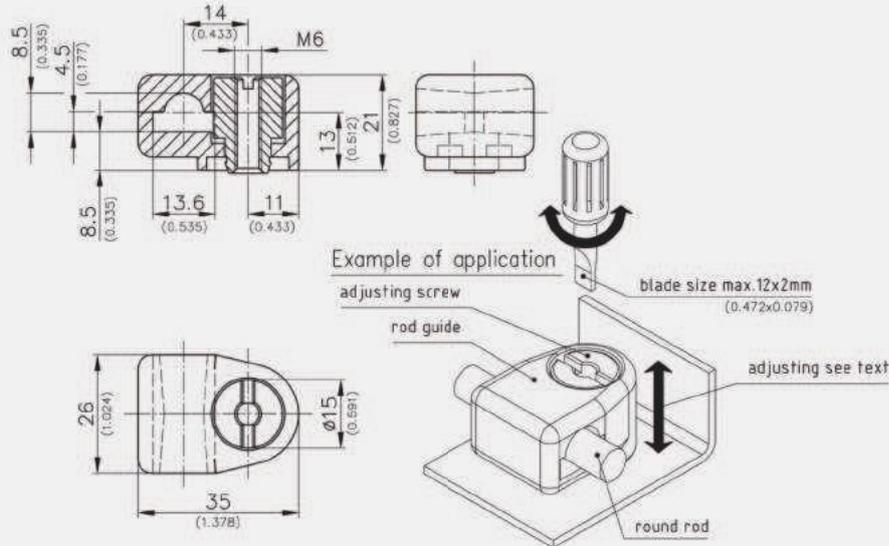
- Slotted insert (max. 12 x 2 mm).
- With this rod guide even completely pre-assembled rod latch systems can be installed, because the rod guide can be screwed onto the thread of the weld studs M6 by turning the threaded sleeve.
- The round shape of the hole allows free swivelling even with very short rods.
- PA version see product system 1-192.

Material and surface

- Rod guide:** stainless steel AISI 316
- Adjusting screw:** stainless steel AISI 303
- C-clip and wave washer:** stainless steel

Note

- Adjustment depending on the length of the weld stud:
- M6 x 14 +5/-1 mm
 - M6 x 16 +5/-3 mm
 - M6 x 18 +5/-5 mm
 - M6 x 20 +5/-7 mm



Rod guide

Part Number	Version	Fastening	Material	height adjustable	Adjustment range
200-9623.00-00000	RS	screwed on	stainless steel	Yes	max. + 5 mm

Part Number	Page								
100-0388.50-07701	31	100-9503.00-00000	155	208-9305.00-00000	68	216-9106.00-00000	169	243-9222.00-00000	41
100-0388.50-07702	31	100-9504.00-00000	158	208-9312.00-00000	68	216-9109.00-00000	166	243-9223.00-00000	41
100-0388.50-07703	31	100-9505.00-00000	158	208-9790.00-00000	78	216-9109.00-00001	166	243-9224.00-00000	41
100-0388.50-07704	31	100-9601.00-00000	153	208-9791.00-00000	78	216-9110.00-00000	166	243-9225.00-00000	41
100-0388.50-07705	31	100-9755.00-00000	35	209-0201.00-00000	92	216-9110.00-00001	166	243-9226.00-00000	41
100-0388.50-07707	31	100-9901.00-00000	47	209-0201.1A-00000	92	216-9111.00-00000	168	243-9227.00-00000	41
100-0535.80-00000	162	107-9209.00-10000	77	209-0205.00-00000	92	216-9111.00-00001	168	243-9228.00-00000	41
100-0535.80-00002	162	107-9274.00-10000	77	209-0205.1A-00000	92	216-9112.00-00000	169	243-9229.00-00000	41
100-0535.80-00004	162	108-0916.15-00300	75	209-0211.00-00000	92	216-9112.00-00001	169	245-9301.00-00000	90
100-0535.80-00006	162	108-0916.15-00400	75	209-0220.00-00000	92	216-9113.00-00000	164	245-9303.00-00000	90
100-0535.80-00008	162	108-0916.15-00500	75	209-0240.00-00000	92	216-9115.00-00000	167	245-9304.00-00000	112
100-0535.80-00010	162	108-0916.15-00600	75	209-0246.00-00000	92	216-9116.00-00000	167	245-9304.07-07101	90
100-0535.80-00012	162	108-0916.15-00700	75	209-2201.00-00000	92	216-9116.00-00001	167	248-0602.15-00135	23
100-0535.80-00014	162	200-0211.07-07701	31	214-0103.03-00000	109	216-9120.00-00000	168	248-0602.15-00275	23
100-0535.80-00016	162	200-0769.50-07718	31	214-0105.50-00013	96	216-9121.00-00000	166	248-9100.00-00000	149
100-0535.80-00018	162	200-0769.50-07720	31	214-0106.50-00013	96	216-9121.00-00002	166	248-9101.00-00000	149
100-0535.80-00020	162	200-0769.50-07722	31	214-0107.51-00000	101	216-9122.00-00000	169	248-9102.00-00000	149
100-0535.80-00022	162	200-0769.50-07724	31	214-0107.51-10000	101	216-9123.00-00000	168	248-9103.00-00000	149
100-0545.80-00000	162	200-0769.50-07728	31	214-0108.51-00000	98	216-9124.00-00000	169	248-9104.00-00000	149
100-0545.80-00002	162	200-2811.35-00000	44	214-0108.51-20000	97	216-9125.00-00000	168	248-9105.00-00000	149
100-0545.80-00004	162	200-3606.03-00000	43	214-0109.51-00000	12	216-9125.00-00001	168	248-9106.00-00000	149
100-0545.80-00006	162	200-3623.51-00000	42	214-0109.51-10000	12	216-9126.00-00000	169	248-9107.00-00000	149
100-0545.80-00008	162	200-3624.51-00000	42	214-0109.51-20000	12	216-9126.00-00001	169	248-9108.00-00000	149
100-0545.80-00010	162	200-3625.51-00000	42	214-0109.51-30000	12	216-9128.00-00000	164	248-9109.00-00000	149
100-0545.80-00012	162	200-3626.51-00000	42	214-0110.51-00000	99	218-9220.00-00000	91	248-9110.00-00000	149
100-0545.80-00014	162	200-4101.00-00000	45	214-0111.51-00000	100	218-9309.00-00000	172	248-9150.00-00000	149
100-0545.80-00016	162	200-4103.00-00000	45	214-0112.00-00050	103	218-9310.00-00000	172	248-9151.00-00000	149
100-0545.80-00018	162	200-4703.03-00000	46	214-9002.00-00000	109	218-9311.00-00000	172	248-9152.00-00000	149
100-0545.80-00020	162	200-4704.03-00000	46	214-9002.00-00001	109	218-9312.00-00000	173	248-9153.00-00000	149
100-0545.80-00022	162	200-4705.03-00000	46	214-9003.00-00000	109	218-9313.00-00000	173	248-9154.00-00000	149
100-9033.00-00000	44	200-4706.03-00000	46	214-9003.00-00001	109	224-9009.00-00000	89	248-9155.00-00000	149
100-9044.00-00000	27	200-9088.00-00000	37	214-9101.00-00000	110	224-9010.00-00000	89	248-9156.00-00000	149
100-9045.00-00000	27	200-9089.00-00000	37	214-9101.00-00510	110	224-9011.00-00000	89	248-9157.00-00000	149
100-9046.00-00000	27	200-9090.00-00000	37	214-9102.00-00000	110	229-0504.35-04045	107	248-9158.00-00000	149
100-9047.00-00000	27	200-9092.00-00000	37	214-9102.00-00620	110	229-0504.35-04050	107	248-9159.00-00000	149
100-9053.00-00000	34	200-9094.00-00000	37	214-9102.00-00625	110	229-9109.00-00000	106	248-9160.00-00000	149
100-9054.00-00000	34	200-9096.00-00000	37	214-9103.00-00000	110	229-9110.00-00000	106	248-9200.00-00000	151
100-9055.00-00000	34	200-9098.00-00000	37	214-9103.00-00820	110	229-9111.00-00000	104	248-9201.00-00000	151
100-9056.00-00000	34	200-9232.00-00000	161	214-9103.00-00825	110	229-9112.00-00000	104	248-9202.00-00000	151
100-9057.00-00000	34	200-9233.00-00000	161	214-9103.00-00830	110	229-9113.00-00000	105	248-9203.00-00000	151
100-9058.00-00000	34	200-9236.00-01333	161	214-9104.00-00000	110	235-9015.00-00000	49	248-9204.00-00000	151
100-9079.00-00000	146	200-9236.00-99999	161	214-9104.00-01020	110	235-9016.00-00000	49	248-9205.00-00000	151
100-9079.00-00001	146	200-9237.00-01333	161	214-9104.00-01025	110	235-9017.00-00000	49	248-9206.00-00000	151
100-9079.00-00002	146	200-9237.00-99999	161	214-9104.00-01030	110	235-9018.00-00000	49	248-9207.00-00000	151
100-9081.00-10030	39	200-9615.00-00000	43	216-9001.00-00000	82	243-9002.00-00000	86	248-9208.00-00000	151
100-9081.00-10050	39	200-9623.00-00000	176	216-9002.00-00000	82	243-9003.00-00000	86	248-9209.00-00000	151
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General Terms of Business of DIRAK

Dieter Ramsauer Konstruktionselemente GmbH
Issue April 2012

Prefatory remark

All our deliveries and services are subject solely to our General Terms of Business. We will oppose the incorporation of our contract partners' / clients' General Terms of Business. Provisions which are individually contractually agreed in the context of the contractual relationship shall have priority over the General Terms of Business.

1. Purchase orders and order acceptance

(1) We explicitly reserve the right for ordered or delivered items to deviate from the purchase order where such deviation does not run counter to normal utilisation, in particular with regard to materials and execution.

(2) Product descriptions – especially in our catalogues – do not represent a description of the quality composition, but are merely exemplary presentations.

(3) The client is obliged to inform us in writing, and in good time, if the quality composition of the product, or a special execution or specific material, is of particular significance for the intended utilisation.

(4) Frame-contracts are valid 12 month except not otherwise agreed. After the expiration of the contract DIRAK is in the position to deliver the remaining quantities to the agreed conditions of the contract.

2. Delivery time

(1) The delivery dates stated by us are generally non-binding, and simply designate a period of around 1 to 2 weeks before or after the stated date, unless they have been explicitly confirmed by us in writing in the form of a „binding delivery date“. The client is obliged to inform us in good time if non-observance of the projected delivery date could result in a loss. In such cases, we are prepared to agree a „binding“ delivery date – where appropriate in return for a suitable surcharge – and to guarantee adherence to that date.

(2) In the event of a delay for which we are responsible, the client is only entitled to enforce further rights if the client has set a subsequent deadline of at least three weeks, and that deadline has elapsed without success.

3. Versand

(1) If it is necessary to ship the ordered goods, shipping will take place from the supplier's principal place of business at the contract partner's / client's expense and risk. In the absence of specific agreements, we shall be free to select the shipping company and shipping method. Even if carriage-paid delivery has been agreed, the risk will be transferred to the client when the goods are shipped from the supplier's principal place of business.

(2) If shipping is delayed due to reasons for which the client is responsible, the risk will already be transferred to the client at the time of shipping readiness. The client must bear the costs caused by the delay (especially warehousing charges).

(3) The supplier is not obliged to insure the consignment against transport damage, or to arrange for such insurance, unless the supplier has given such an undertaking in writing.

4. Liability for defects

(1) The client is obliged to examine the delivered goods immediately following delivery, and to notify us immediately, and in writing, of any existing defects (at the latest, by the third working day following the delivery). Detectable defects which, contrary to the above obligation, are notified too late will not be entertained by us and will not be covered by the warranty. Notices of defect will only be acknowledged if lodged in writing and addressed to ourselves. Notices of defect lodged with field staff, shippers or other third parties shall be invalid.

(2) The supplier's prior agreement must be obtained if it is necessary to return goods to the supplier in the event of a defect. The supplier need not accept returns which are sent without his prior agreement. In that event, the client will bear the costs of the return shipment.

(3) The provisions governing the delivery period will apply accordingly in the event that, based on a justified notice of defect, a retrospective improvement or replacement delivery is made.

(4) The client shall have the following rights based on the existence of a defect which has been determined as such, and which has been notified by means of a valid notice of defect: (a) In the event of a defect, the client shall initially be entitled to demand retrospective performance from the supplier. In this regard, the supplier is entitled to choose whether to deliver a replacement object or to remedy the defect.

(b) Furthermore, if a retrospective performance attempt fails, the supplier may make a further retrospective performance attempt, and again may make a choice in this regard. The client shall only be entitled to repudiate the contract or reduce the purchase price once the repeated retrospective performance attempt has failed.

(5) Any further rights are ruled out unless the supplier is guilty of premeditation or gross negligence.

(6) The warranty period is one year from the date of delivery. The client must, under all circumstances, prove that the defect was already present at the time of delivery.

(7) In case of any return shipments DIRAK is allowed to charge handling expenses.

5. Other liability in respect of breach of duty by the supplier

Without prejudice to the provisions governing the warranty or other special arrangements contained in these provisions, the following shall apply in cases where the supplier is in breach of duty:

(1) The client must set the supplier an appropriate retrospective performance deadline to rectify the breach of duty; this deadline must not be under three weeks.

(2) The client may only repudiate the contract and/or demand damage compensation once this retrospective performance deadline has elapsed without success.

(3) The client may only enforce a damage compensation claim in cases of grossly negligent or premeditated breach of duty by the supplier. Damage compensation in place of the service (in the case of non-performance, § 280 III in conjunction with § 281 German Civil Code) and delay-related damage (§ 280 II in conjunction with § 286 German Civil Code) shall be limited to the negative interest, while damage compensation for a service which has not been performed, or which has not been performed in the manner owed (§ 282 German Civil Code), shall be limited to the amount of the purchase price. Damage compensation in place of the service shall be ruled out in the event that the obligation to render the service is excluded (performance impossibility).

(4) In the event of a merely negligent breach of duty by ourselves or those employed in performing an obligation for which we are vicariously liable, our liability shall be limited to contractually typical and predictable damage, unless grossly negligent behaviour is present, or unless there has been an injury to life, limb or health.

(5) Repudiation shall be ruled out if the client is solely or primarily responsible for the circumstances which would entitle him to repudiate the contract, or if the circumstance which would entitle the client to repudiate the contract occurred during the period when the client delayed acceptance.

6. Exclusion of procurement risk and guarantees

The supplier does not assume any procurement risk or any guarantees of any kind unless a specific written agreement has been reached with the client in this regard.

7. Prices

Prices will be invoiced from the supplier's principal place of business in EURO excluding the relevant applicable turnover tax.

8. Payment terms

(1) All the supplier's invoices shall be payable within 30 days of invoice date net cash. The deduction of a discount as well as any other amendment to this term shall require prior written agreement.

(2) In case a buying party is in delay with his payment, we are charging an administration fee of 5/10/20 Euro for each reminder. An additional default interest has to be paid amounting to 12%, from the original due date of the payment.

(3) The exercise of a right of retention or offsetting shall be ruled out unless the counterclaim is undisputed or has been legally determined in a non-appealable manner.

9. Reservation of title

(1) All goods delivered by the supplier shall remain the supplier's property until the purchase price has been paid in full, and until all other claims deriving from the business relationship have been met in full (extended reservation of title). Any disposal by the client, regardless of the manner of such disposal, of the goods in respect of which title is reserved, shall only be permitted in the context of the client's normal business dealings. The goods may not, under any circumstances, be transferred to a third party by means of security.

(2) In the event of the goods being sold in the context of normal business dealings, the purchase price shall take the place of the goods. On accepting the goods, the client already assigns all claims deriving from any sale to the supplier, and the supplier accepts this assignment. The client is entitled to collect these claims as long as he meets his payment obligations to the supplier. In consideration of the extended reservation of title (advance assignment of the relevant purchase price demand), an assignment to third parties, in particular to a credit institution, is prohibited. The supplier is entitled to check the client's sales documentation at any time, and to inform the client's clients of the assignment.

(3) In the event of a levy of execution in respect of goods at the client's premises, the supplier must be informed immediately of the fact that the distressed goods are the goods delivered by the supplier in respect of which title is reserved. This notification must be accompanied by an official copy of the protocol of execution together with a statutory declaration in lieu of oath.

(4) If, for the foreseeable future, the value of the securities pursuant to the above paragraphs of this article exceeds the amount of the outstanding claims thus secured by more than 20%, the client shall be entitled to demand that the supplier release securities to the value of the surplus amount.

(5) In the event of payment arrears, we shall be entitled to demand return of the delivered goods, and to offset them against the arrears at our purchase price or cost price.

(6) Enforcement of the supplier's rights deriving from the reservation of title shall not exempt the client from his contractual obligations. The value of the goods at the time they are taken back will simply be offset against the supplier's existing claims against the client.

10. Supplier's right of repudiation

The supplier shall be entitled to repudiate the contract for the following reasons:

(1) If it should transpire, contrary to the assumption at the time of contract conclusion, that the client is not credit-worthy. In particular, the client shall be deemed to be unworthy of credit if a bill of exchange or cheque is protested, if the client ceases payment or if an unsuccessful attempt at execution is made.

(2) If it should transpire that the client made false statements regarding his creditworthiness.

(3) If the goods in respect of which the supplier has reserved title are disposed of without the supplier's consent and outside the client's normal business dealings, especially by being transferred by way of security or being pledged. The only exceptions are if the supplier gave his consent in writing to such disposal.

11. Place of performance and legal venue

(1) If the client is an entrepreneur or a legal entity under public law or a special fund under public law, the supplier's principal place of business shall be the sole legal venue for all disputes arising directly or indirectly from the contractual relationship. Furthermore, each contracting party shall be entitled to sue the other party at the party's general legal venue.

(2) All agreements between ourselves and our contract partners/clients must be in writing. This also applies to setting aside the written form requirement.

(3) The law of the Federal Republic of Germany shall apply in all cases, in particular also in cases of cross-border deliveries. The provisions of the UN Purchase Law shall not apply.

12. Partial nullity

Should contractual agreements be or become wholly or partially invalid, or should it transpire that there is a loophole in the contract, the validity of the remaining contractual agreements shall not be affected thereby. In such a case, the contract parties are obliged to replace the invalid contract provision with a valid one, and to close the contract loophole with a provision which most closely approximates to the commercial intention.

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