

TS 98 XEA

Slide channel door closer system in XEA design



Our Sustainability Commitment

We are committed to fostering sustainable practices along our entire value chain in line with our economic, environmental and social responsibilities now and into the future. We seek to engage in open and transparent dialogue with all our stakeholders to develop strategies and actions based on clear targets and a continuous improvement approach, we will also actively report on our progress.



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TS 98 XEA with Fire Protection Plate (FPP®)
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 Door coordinator with electromechanical hold-open unit, pull side installation

High-quality architecture requires components of equal excellence. The XEA-designed door closers and hold-open devices provide customisable aesthetics. By using a single door closer for all installations, product variants and complexity across the value chain are simplified.

EN 1 to EN 6, pull or push side? One door closer for all applications!

For high-quality architectural solutions in the project



The centerpiece of the TS 98 XEA slide channel door closer system is the heart-shaped cam. Together with the innovative, hydraulic functions, the TS 98 XEA system's unique Cam Action Technology makes it very comfortable to pass through the door.

The door closer system in XEA design with Fire Protection Plate (FPP®) impresses due to

- one door closer for all installation types
- three different closing ranges
- standard delayed closing
- standard backcheck
- conveniently adjust all settings from the front
- door width up to 1,400 mm
- usable at up to -40°C
- tested on uninsulated fire doors up to 2 hrs



A door closer for all installation types

The TS 98 XEA can be installed on the pull or push side, on the transom or the door leaf and on the left-hand or right-hand side.



Closes at 180°

If the door closer is mounted on the pull side, 180° closing is possible with both door leaf and transom installation.



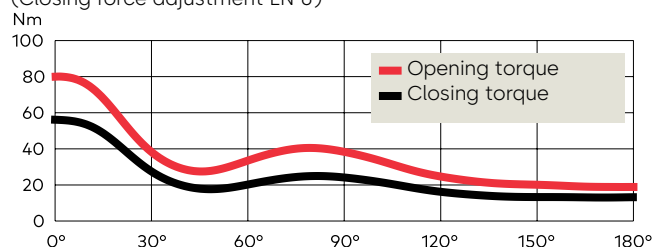
Patented Fire Protection Plate FPP®

This mounting backplate with its unique composite construction ensures maximum fire safety for TS 98 XEA. This solution underpins dormakaba's ability to combine highest power density and most robust die cast steel door closers with highest possible fire resistance for the usage at high quality doors.



Torque curve TS 98 XEA with FPP®

(Closing force adjustment EN 6)





SoftFlow – Silent closing

A combination of two adjustable closing ranges (15°–0° and 7°–0°) allows for the door to close silently.



Delayed closing – DC/SV

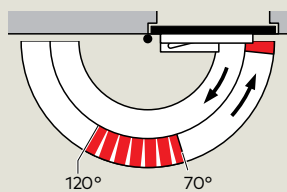
The delayed closing reduces the closing speed until the door closing angle reaches 70°.

As a result, there is always enough time to pass through the door.

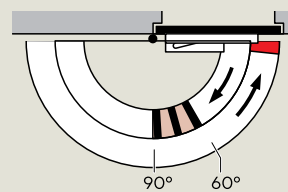


Backcheck – BC/OD

Thanks to the backcheck function, the momentum of a flung-open door or a door caught by the wind is mostly cushioned. This protects the wall and door from damage. However, we still recommend using a door stop.



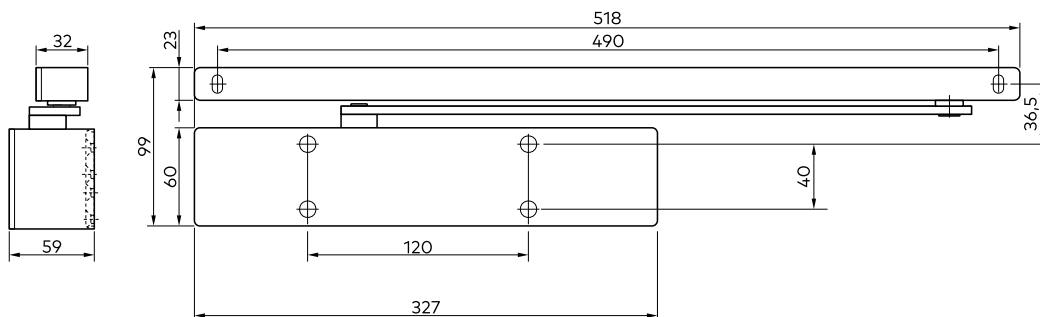
Adjustable delayed closing



Adjustable backcheck

Flexible technology

Can be universally used for one and two-leaf door applications



Whether it is one-leaf or two-leaf, DIN left or right – the TS 98 XEA with FPP® is dormakaba's single door closer for all installation types.

As a result, the number of product variants and complexity in installation is reduced while simultaneously increasing flexibility at the construction site.

The mounting plate with a universal hole pattern system offers the optimum or required fastening for many different door constructions. Adjustments are easily made from the front.

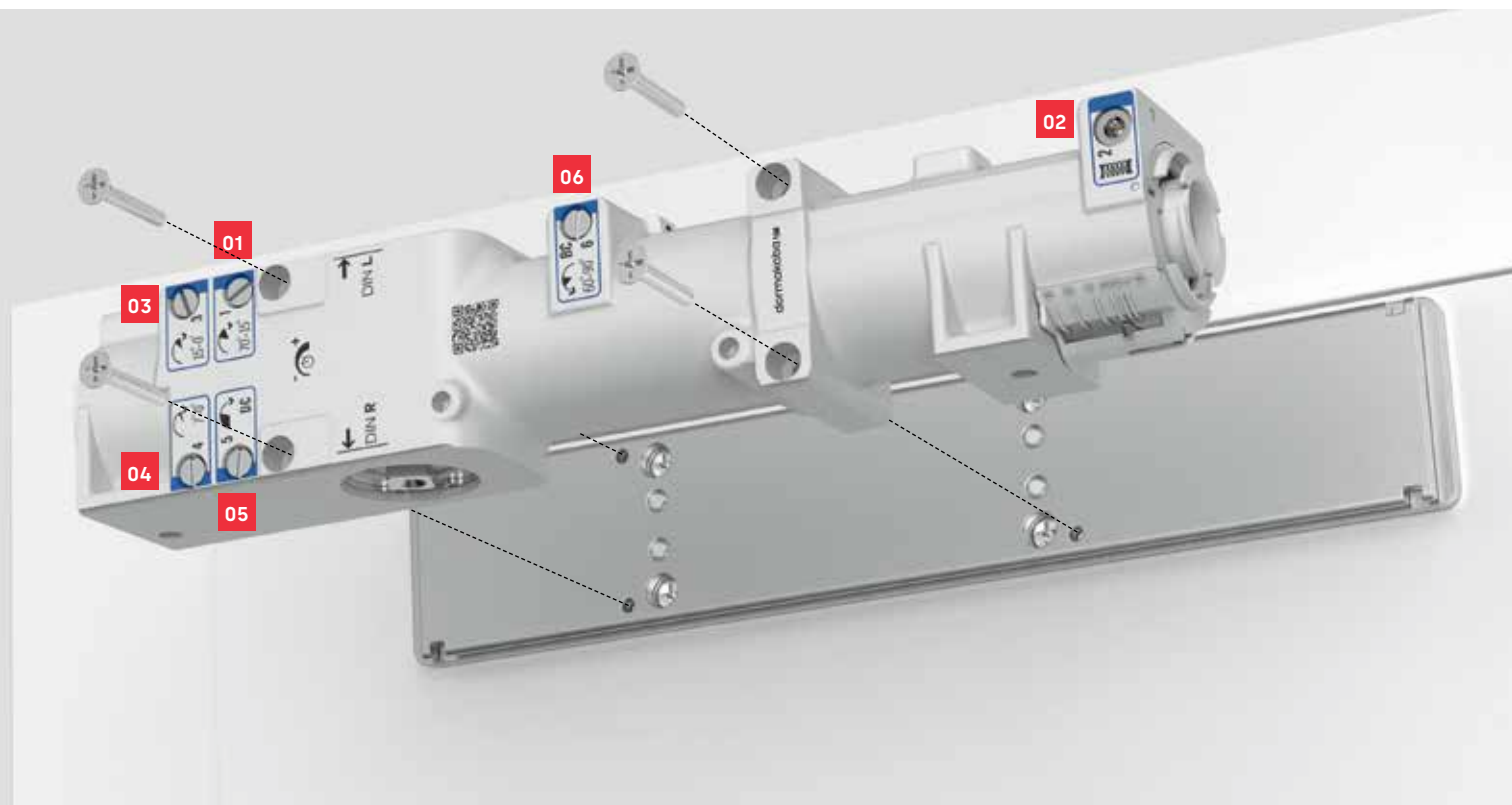
Data and features		TS 98 XEA with FPP®	
Variable closing force	Size	EN 1-6	
Standard doors ¹⁾	≤ 1400 mm	●	
External doors, outward opening ¹⁾	≤ 1400 mm	●	
For fire and smoke control doors ¹⁾	≤ 1400 mm	●	
Same design for DIN-L and DIN-R		●	
Same design for pull and push side		●	
Arm assembly type	Standard	-	
	Slide channel	●	
Closing force can be adjusted from the front with the adjusting screw		●	
Visual closing force indicator		●	
Closing speed adjustable by valve		●	
SoftFlow: second closing range, 15°–0° and adjustable via valve		●	
Latching speed adjustable via valve		●	
Backcheck (BC/OD), adjustable via valve		●	
Delayed closing (DC/SV) adjustable via valve		●	
Hold-open		○	
Weight in kg		4.5	
Dimensions in mm	Length (L)	327	
	Depth (W)	59	
	Height (H)	60	
Door closer tested according to EN 1154 Certificate number 0432-CPR-00026-90		●	
Hold-open devices tested according to EN 1155		●	
Door coordinator tested according to EN 1158		●	
Smoke detection (integrated or external) tested according to EN 14637		●	
CE-mark for building products		●	
Barrier-free according to DIN 18040 for door widths (mm) up to a max of		1250	
Environmental Product Declaration as per ISO 14025 and EN 15804; Programme holder and publisher: Institut Bauen und Umwelt e.V. (IBU) Declaration number: EPD-ARG-20160183-IBG1-EN		●	
Temperature range up to -40°C		●	

● Yes – No ○ Option

¹⁾ For exceptionally tall and heavy doors and doors that constantly close against strong wind pressure, we recommend selecting the next-biggest door closer size or setting a stronger closing force.



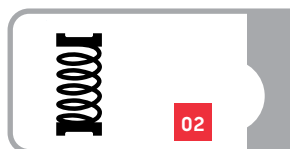
The TS 98 XEA with FPP® complies with product testing standards and certification requirements, in accordance with AS 1530.4 Specification for Fire Doors.



All functions are adjustable from the front



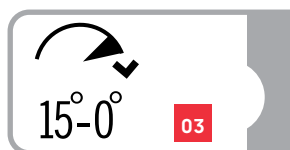
- 1 Adjustable closing speed between 70° and 15°.



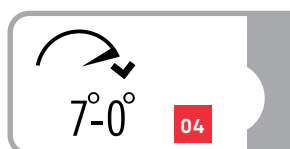
- 2 Closing force adjustment EN 1-6
A visual display (closing force indicator) shows the selected closing force. Easy to adjust from the front using a cordless screwdriver.



Indicator according to size information in EN 1154 regarding door width.



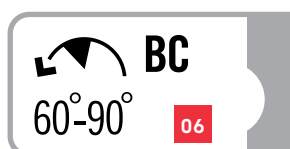
- 3 SoftFlow: adjustable closing range from 15° to 0° – allows for the door to close silently.



- 4 Adjustable latching speed in the 7°-0° closing range.



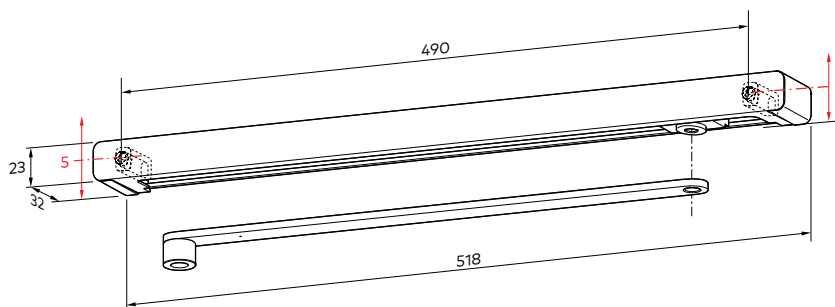
- 5 Delayed closing – DC/SV Closing speed reduced to 70°. Allows for sufficient time to go through the door with luggage, baby carriages, hospital beds, etc.



- 6 Backcheck – Thanks to the backcheck function, the momentum of a flung-open door or a door caught by the wind is mostly cushioned. This protects the wall and door from damage. However, we still recommend using a door stop.

G-N XEA Slide channel

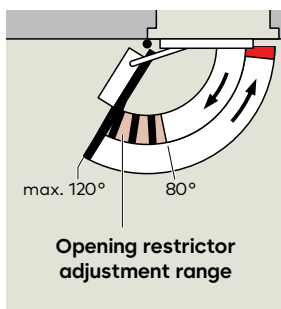
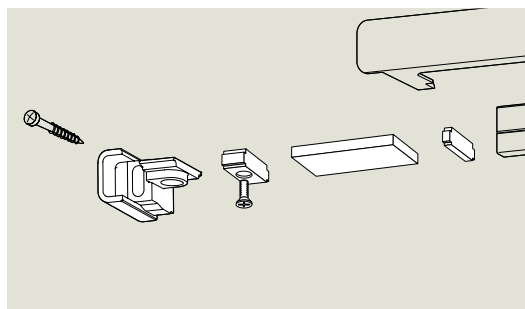
Standard design for 1-leaf doors



The G-N XEA includes the main arm, slide channel, slide block, fixings, screws and end caps. The G-N XEA slide channel can be used for both DIN-L and DIN-R doors and may be combined with all door closer versions in XEA design. Slotted holes in the fixings allow for discrepancies in the drill pattern to be evened out and maintains even spacing between the door closer and slide channel.

Two G-N XEA design variants are also available. One is for direct transom installation. The other is for door leaf installation on the push side using a shortened main arm to provide an attractively aligned channel.

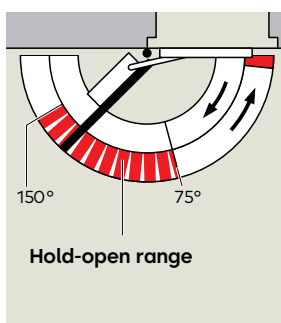
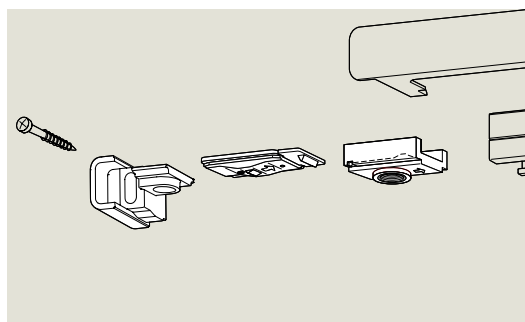
Accessories for G-N XEA slide channel



Opening restrictor

To be subsequently inserted into the slide channel. Adjustable between 80° and max. 120°. Using the opening restrictor will prevent a normally opened door from hitting surrounding walls.

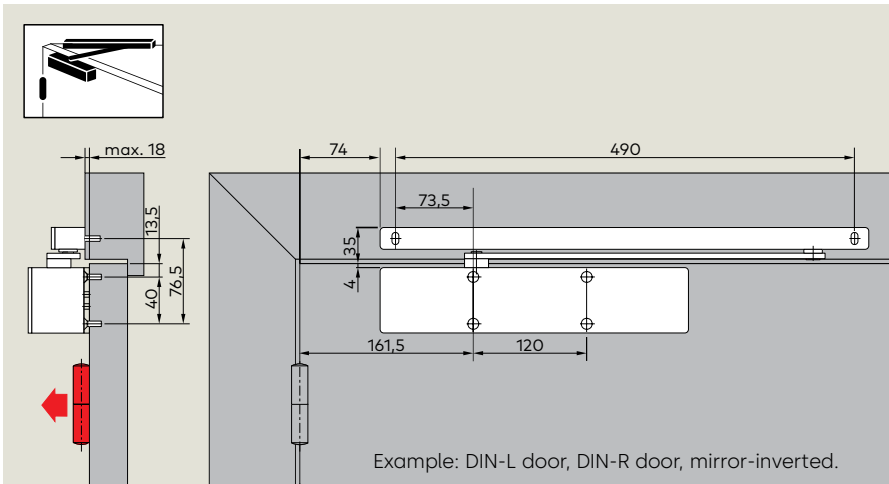
The opening restrictor is not an overload protection mechanism and does not replace the door stop in many use cases.



Hold-open unit RF

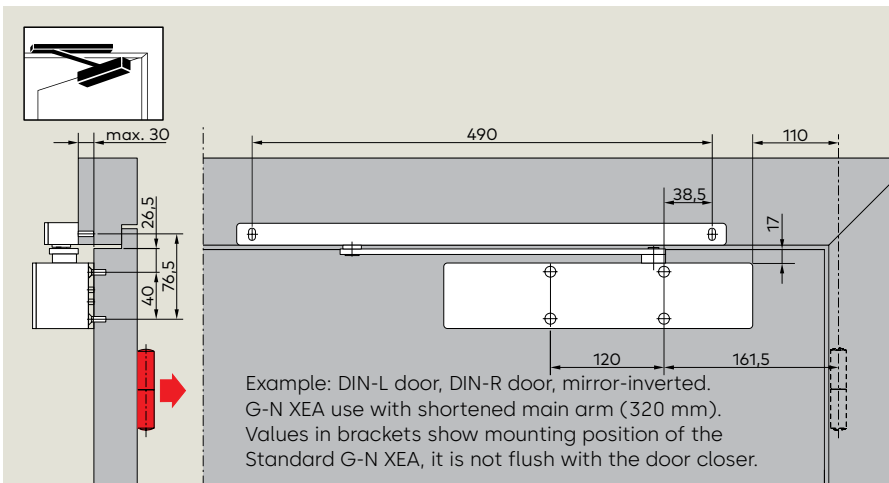
To be subsequently inserted into the slide channel. The hold-open unit RF allows for the door to be precisely held open without fallback at an opening angle up to approx. 150°. The hold-open feature can easily be enabled and disabled by the user as needed. The release force can be adapted to the door situation in question. RF unit is suitable for both DIN-L and DIN-R doors.

Not suitable for fire and smoke control doors.



Door leaf installation, pull side

A 180° opening angle is possible in this installation type, provided that the appropriate construction conditions are met. In most cases, a wall recess is required for the door closer.

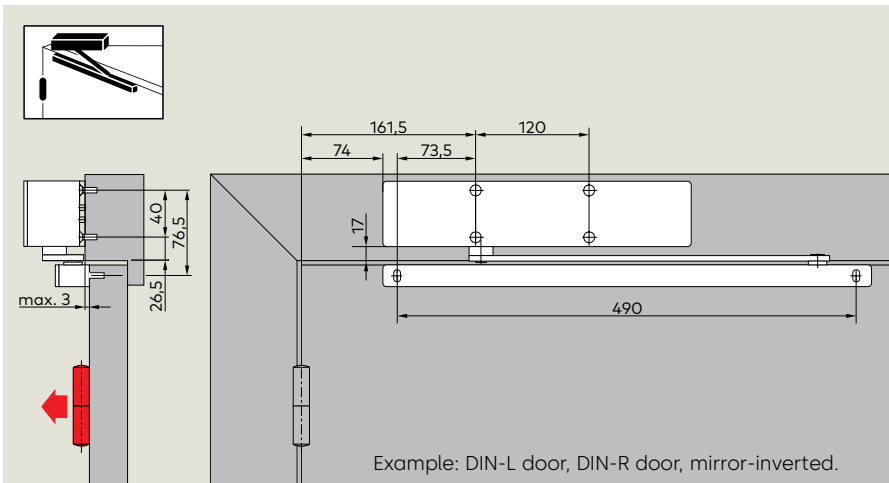


Door leaf installation, push side

Depending on construction conditions, the door opening angle is limited to approx. 90° with usage of the G-N XEA with 320mm main arm. With the Standard G-N XEA 120° to 145° is possible. In this case the mounting position moves 35mm further away from the hinge.

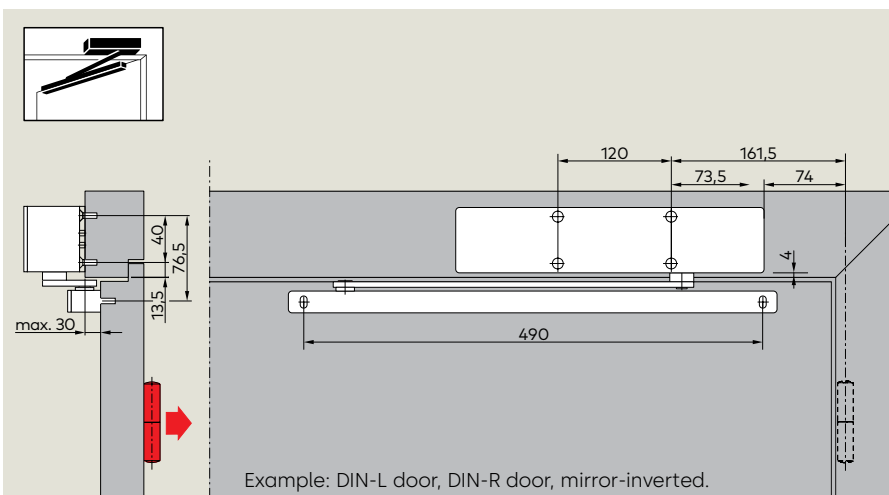
To prevent damage to the door and door closer, we recommend using a door stop.

A door stop must be placed on fire and smoke control doors.



Transom installation, pull side

A 180° opening angle is possible in this installation type, provided that the appropriate construction conditions are met.



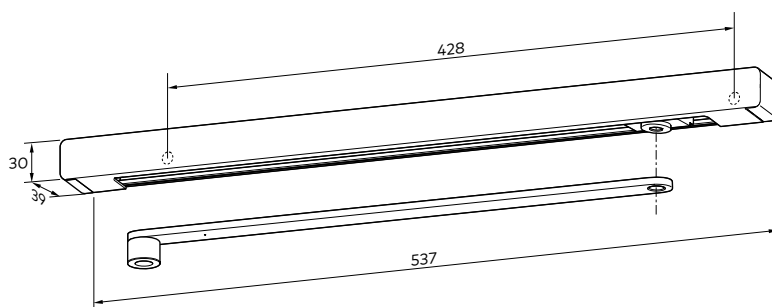
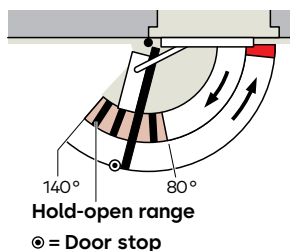
Transom installation, push side

Depending on construction conditions, the door opening angle is limited to approx. 120° to 145°. To prevent damage to the door and door closer, we recommend using a door stop.

G-EMF XEA slide channel

with electromechanical hold-open unit

for 1-leaf doors



The G-EMF XEA allows for the door to be precisely held open without fallback. The hold-open position can be set to an opening angle between approx. 80° and 140°. The hold-open position is also the maximum door opening angle. To prevent damage to the door and door closer, we recommend using a door stop.

In case of alarm or power outage, the hold-open mechanism is disabled and the door is closed by the door closer. It can also be controlled via an external smoke detector (e.g. RMZ XEA).

Thanks to the adjustable release force (no tools required), the hold-open unit can also be effortlessly released by hand.

The G-EMF XEA includes: Main arm, slide channel, slide block, electromagnetic hold-open unit, cover, fastening screws and end caps. The G-EMF XEA slide channel is installed on the transom and is usable for both DIN-L and DIN-R doors.

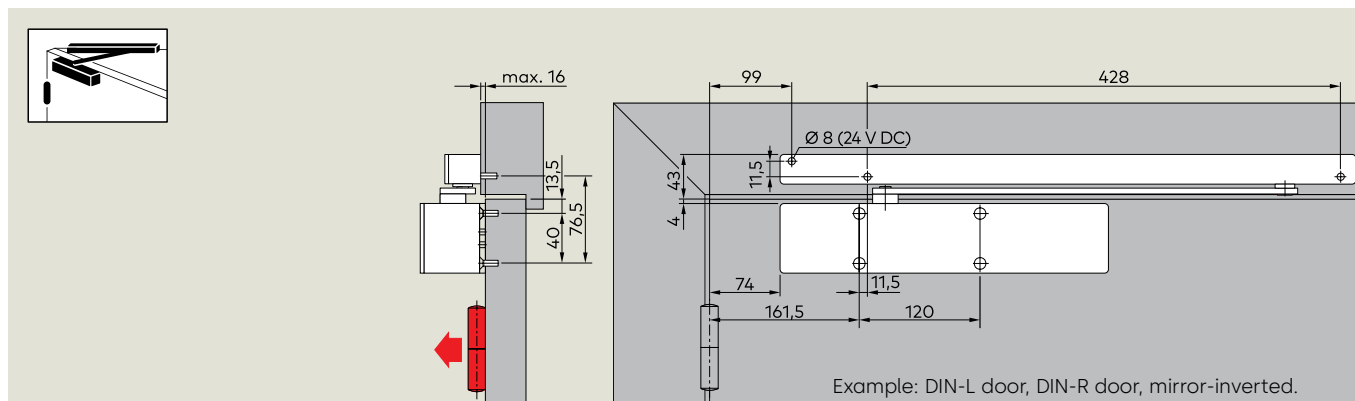
For exceptionally large and heavy doors (over 1250 mm) or doors where the hold-open position is supposed to be above 140°, we recommend using EM electromagnets — in lieu of G-EMF XEA — which may also use RMZ XEA smoke detector.

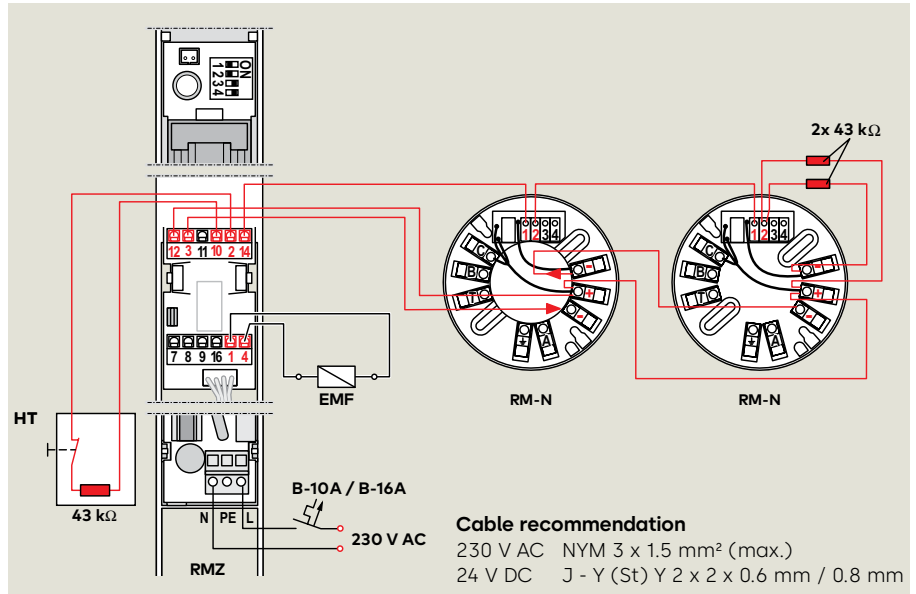
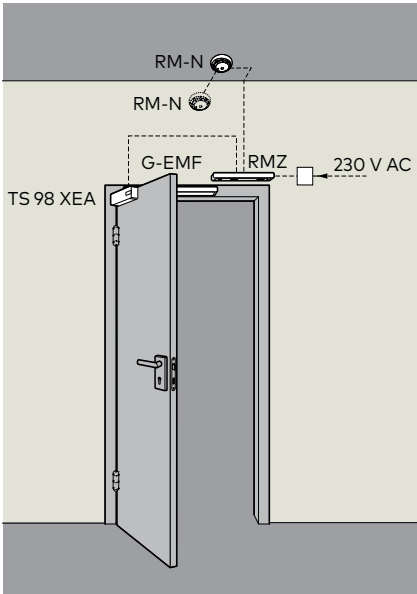
Technical data

Operating voltage	24 V DC, ± 15%
Power input	1.4 W
Duty cycle	100% CDF
Release torque	Adjustable

Pull side installation

TS 98 XEA door closer with FPP® and G-EMF XEA





Regulations/information

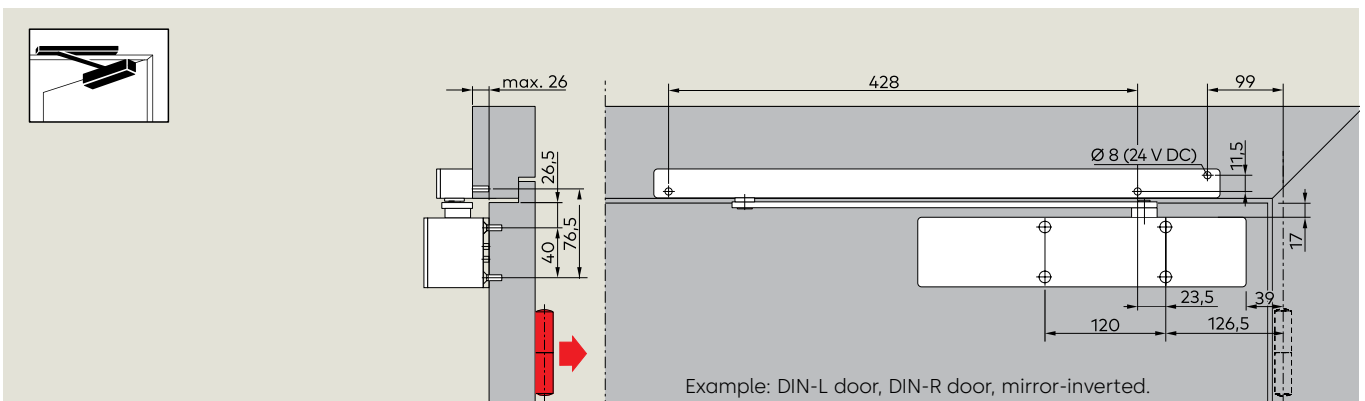
The use of hold-open devices is subject to special regulations due to official approval requirements – see page 27.

Application example

Hold-open device on a fire and smoke control door, consisting of: TS 98 XEA door closer with FPP®, G-EMF XEA, RMZ XEA smoke detector (smoke detector, trigger device and stabilized power supply for 24 V DC) as a transom-mounted smoke detector and 1 RM-N ceiling-mounted smoke detector for both sides of the door.

Installation, push side

TS 98 XEA door closer with FPP® and G-EMF XEA



Door coordinator

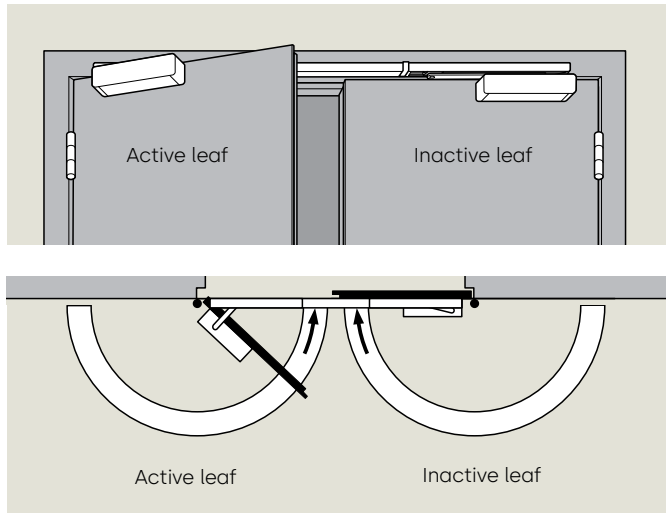
for 2-leaf doors, for installation on the pull side

GSR XEA

Standard design

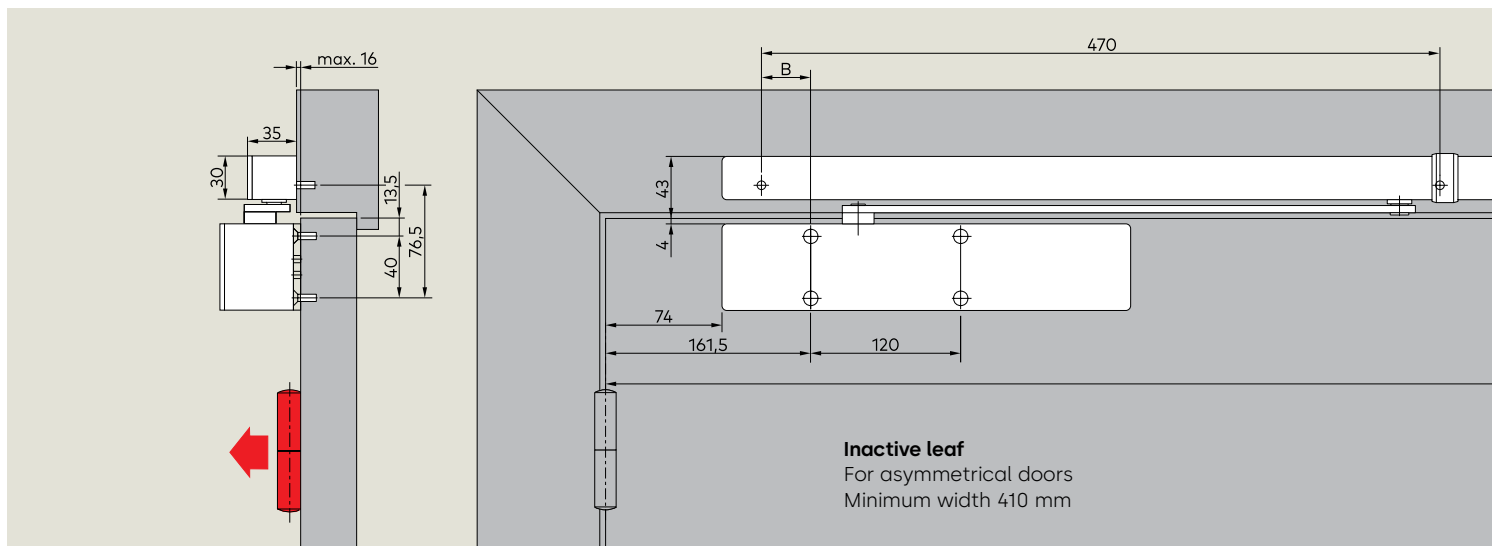
The GSR XEA ensures that the active leaf always closes after the inactive leaf in 2-leaf doors and stands out since it is equipped with a thrust rod clamping system. This system works independently from the door closer's hydraulics and ensures the highest level of safety and reliability (door does not "creep" to a close).

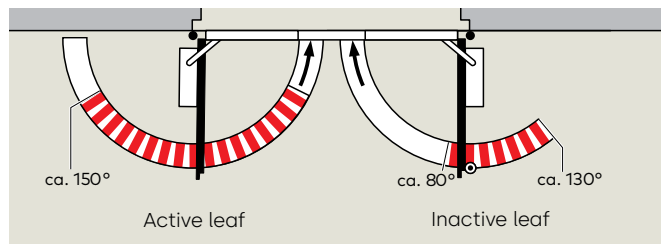
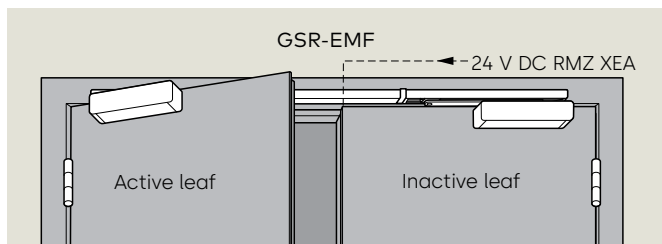
Overload protection protects the closing sequence control and door construction from damage. The GSR XEA door coordinator can be used for both DIN-L and DIN-R doors and is combined with TS 98 XEA door closers with FPP®.



Pull side installation

TS 98 XEA door closer with FPP® and GSR/GSR-EMF XEA





GSR-EMF XEA with electromechanical hold-open unit

The GSR-EMF XEA not only ensures the right order when closing the 2-leaf doors, it furthermore allows for the door leaves to be held open. In case of alarm or power outage, the hold-open unit is disabled and the door is closed by the door closer. It is controlled via an external smoke detector. Thanks to the adjustable release force (no tools required), the hold-open unit can also be effortlessly

released by hand. The hold-open position is also the maximum door opening angle. To prevent damage to the door and door closer, we recommend using a door stop. For doors where the hold-open position is supposed to be above 130°, we recommend using EM electromagnets in lieu of an electromagnetic hold-open unit.

Regulations/information

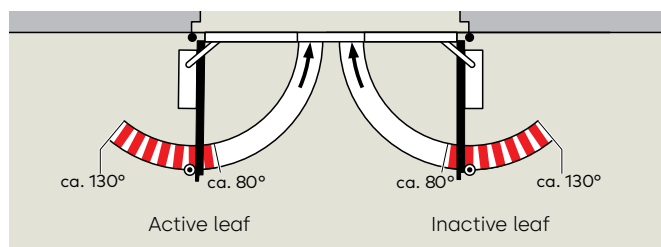
The use of hold-open devices is subject to special regulations due to official approval requirements – see page 27.

Technical data

EMF operating voltage	24 V DC, ± 15%
Power input EMF 1	1.4 W
EMF 2	2.8 W
Duty cycle	100% CDF
Release torque	Adjustable

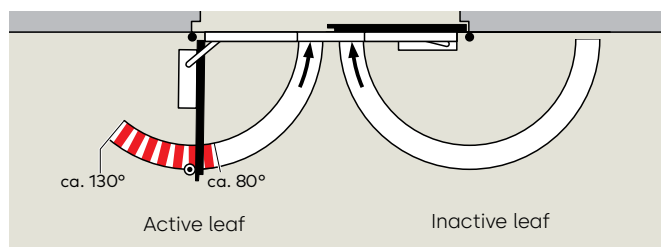
GSR-EMF 1 XEA

Active and inactive leaf can be simultaneously held open at a hold-open position between 80° and 130° (up to a max. of 150° for the active leaf).



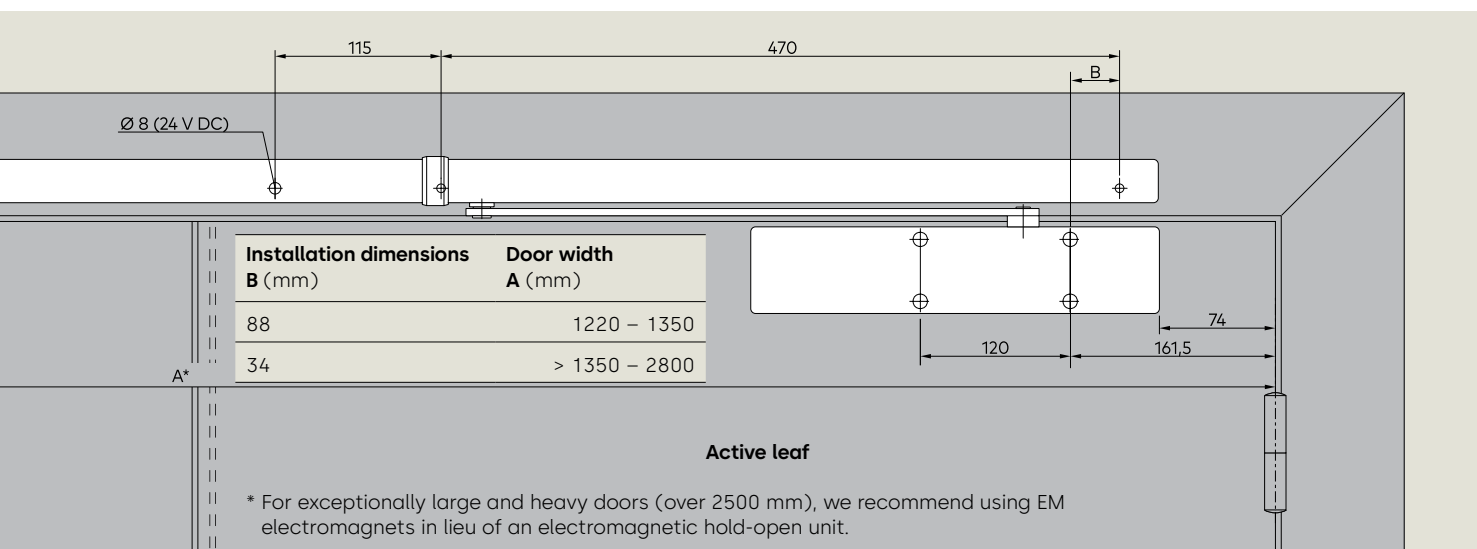
GSR-EMF 2 XEA

Active and inactive leaf can be independently held open at a hold-open position between 80° and 130°.



GSR-EMF 1G XEA

Only hold open the active leaf at any hold-open position between 80° and 130°. This door coordinator allows you to only hold open the active leaf in special door constructions, e.g. inactive leaf that is held open, narrow inactive leaf in asymmetrical doors, etc.



Door coordinator

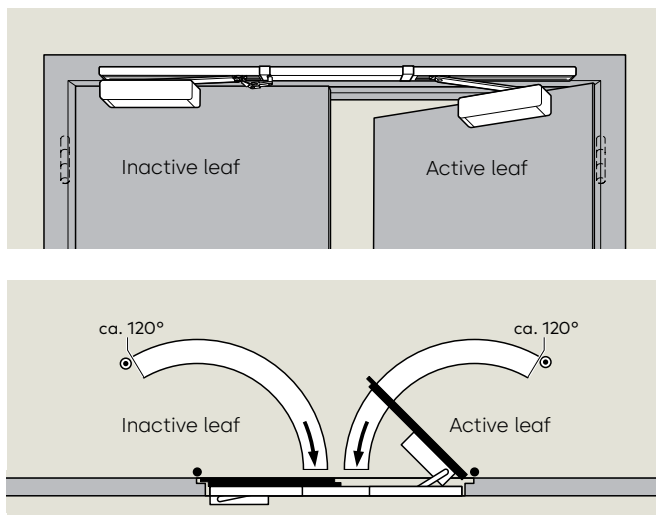
for 2-leaf doors, for installation on the push side BG

GSR XEA BG

Standard design

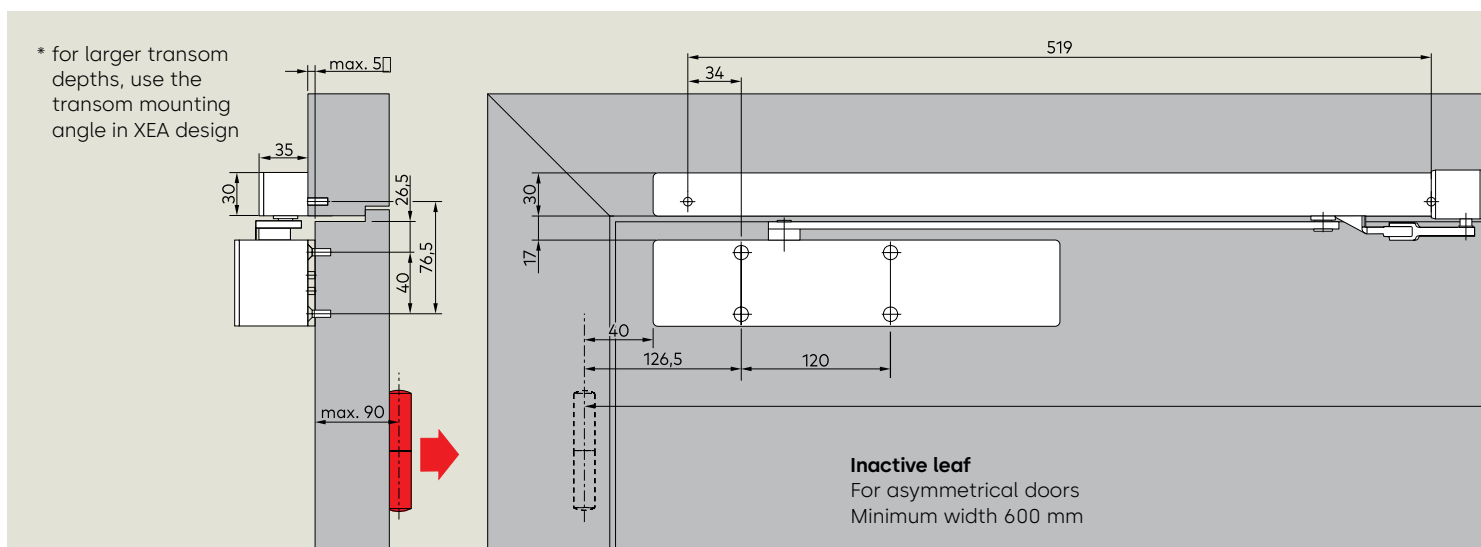
The GSR XEA ensures that the active leaf always closes after the inactive leaf in 2-leaf doors and stands out since it is equipped with a thrust rod clamping system. This system works independently from the door closer's hydraulics and ensures the highest level of safety and reliability (door does not "creep" to a close). Overload protection protects the closing sequence control and door construction from damage. The GSR XEA BG door coordinator can be used for both DIN-L and DIN-R doors and is combined with TS 98 XEA door closers with FPP®.

The maximum door opening angle is approx. 120°. To prevent damage to the door and door closer, we recommend using a door stop. The use of TS 98 XEA GSR with FPP® on the pull side is recommended for panic applications on the fire and smoke control doors.



Installation, push side

TS 98 XEA door closer with FPP® and GSR XEA BG/GSR-EMF XEA BG



GSR-EMF 2 XEA BG

with electromechanical hold-open unit

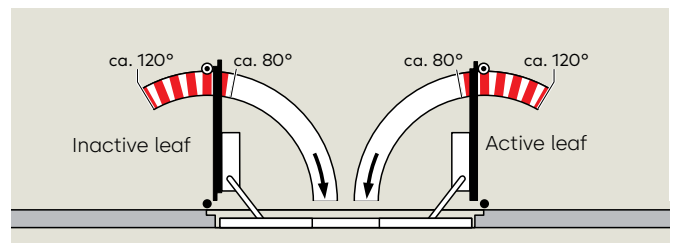
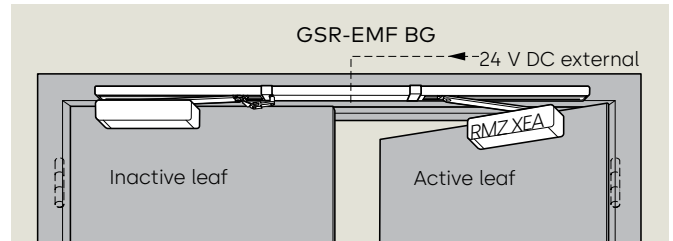
The GSR-EMF XEA not only ensures the right order when closing the 2-leaf doors, it furthermore allows for the door leaves to be held open. In case of alarm or power outage, the hold-open unit is disabled and the door is closed by the door closer. It is controlled via external smoke detectors. Thanks to the adjustable release force (no tools required), the hold-open unit can also be effortlessly released by hand. The hold-open position is also the maximum door opening angle. To prevent damage to the door and door closer, we recommend using a door stop.

Regulations/information

The use of hold-open devices is subject to special regulations due to official approval requirements – see page 27.

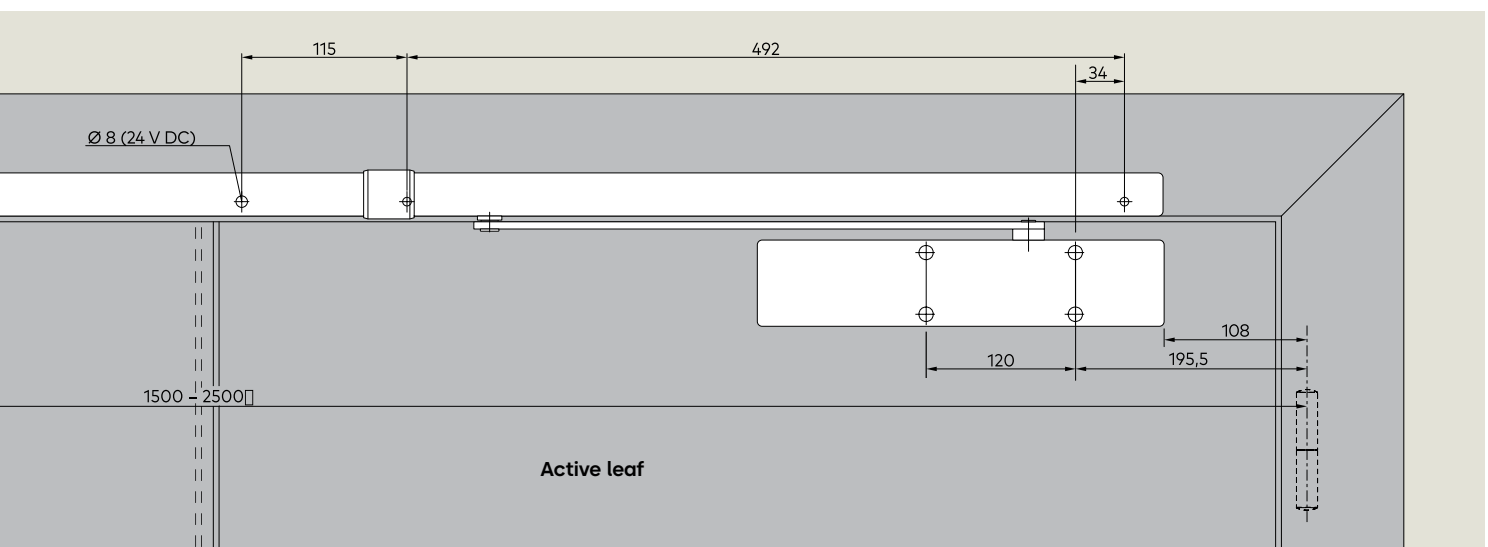
Technical data

EMF operating voltage	24 V DC, $\pm 15\%$
Power input EMF 1	1.4 W
EMF 2	2.8 W
Duty cycle	100% CDF
Release torque	Adjustable



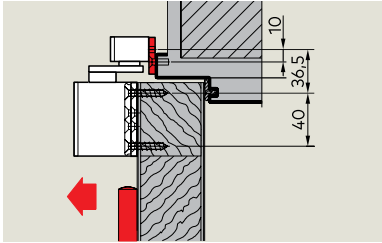
GSR-EMF 2 XEA BG

Active and inactive leaf can be independently held open at a hold-open position between 80° and 120°.



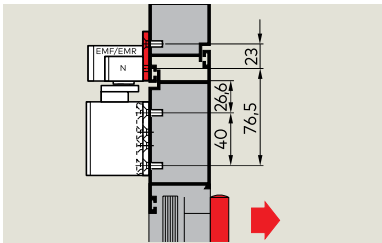
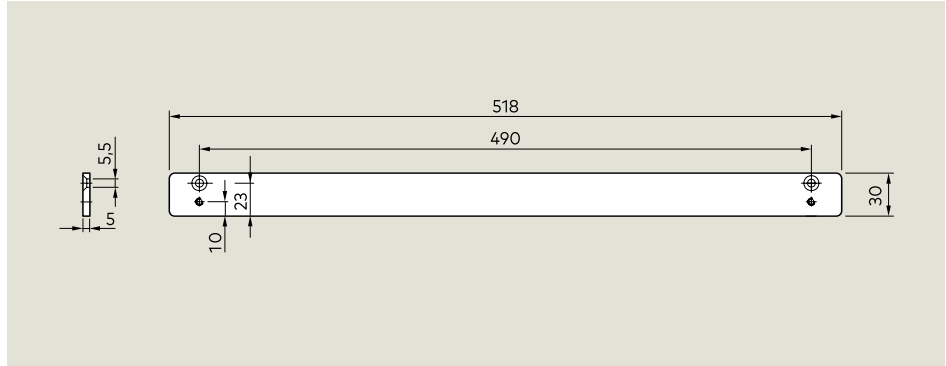
Accessories

1-leaf doors



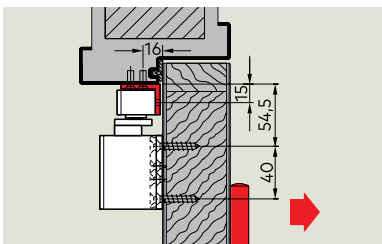
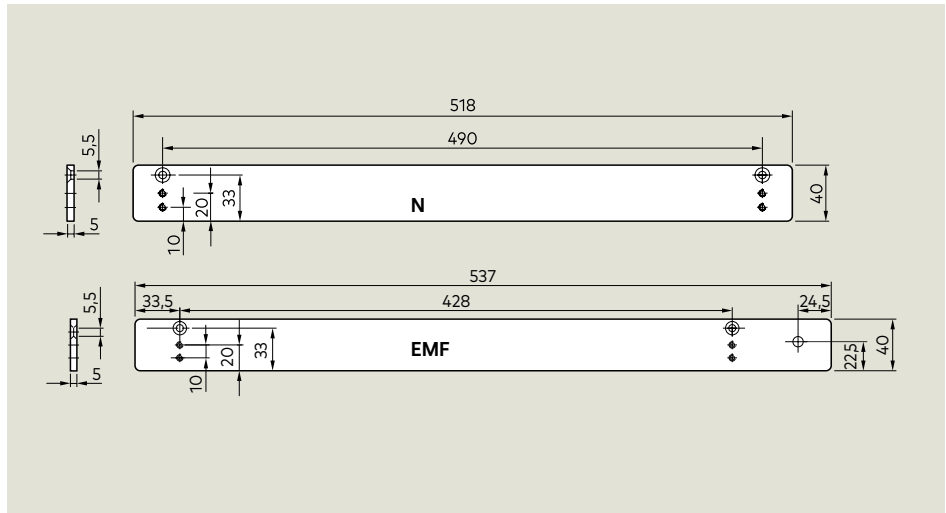
30 mm mounting plate for G-N XEA

For installing the slide channel on door frames where direct installation is not possible.



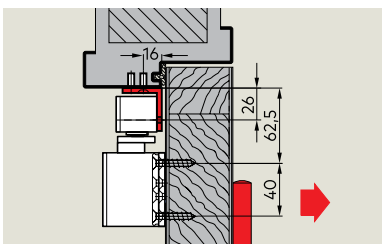
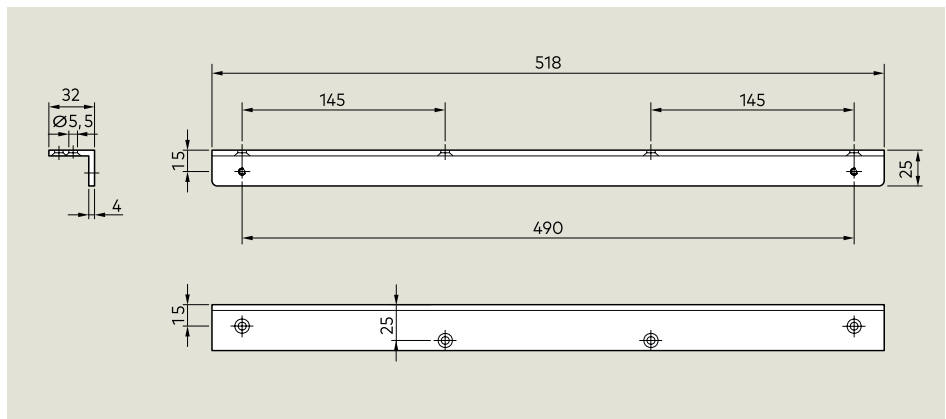
40 mm mounting plate for G-N XEA, EMF XEA

For installing the slide channel on door frames where direct installation is not possible.



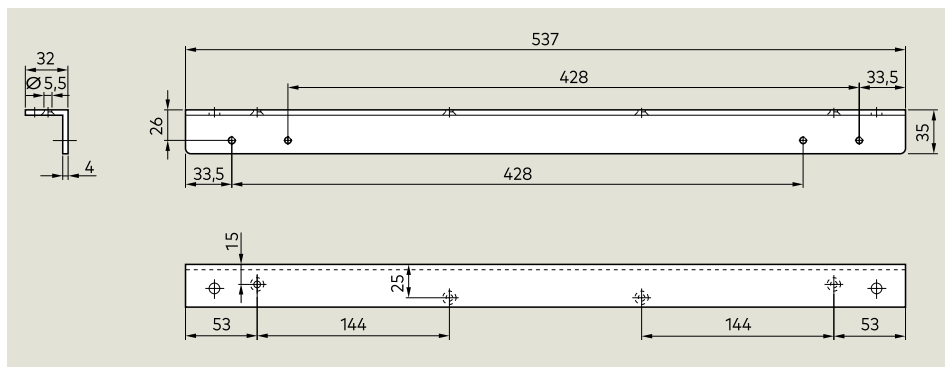
Transom mounting angle for G-N XEA

For installing the slide channel on door frames with a deep transom when installing on the push side. G-N XEA design variant for direct transom installation also available.



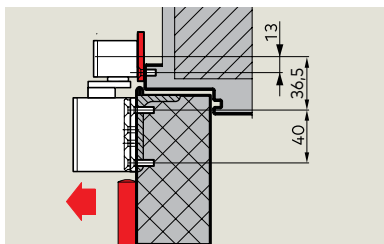
Transom mounting angle for G-EMF XEA

For installing the slide channel on door frames with a deep transom when installing on the push side.

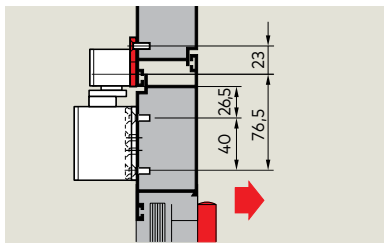
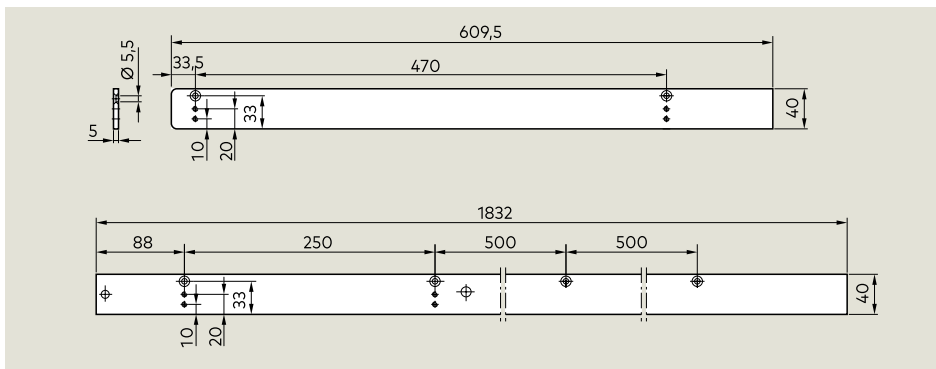


Accessories

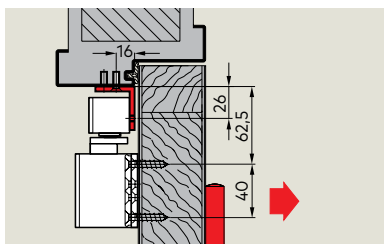
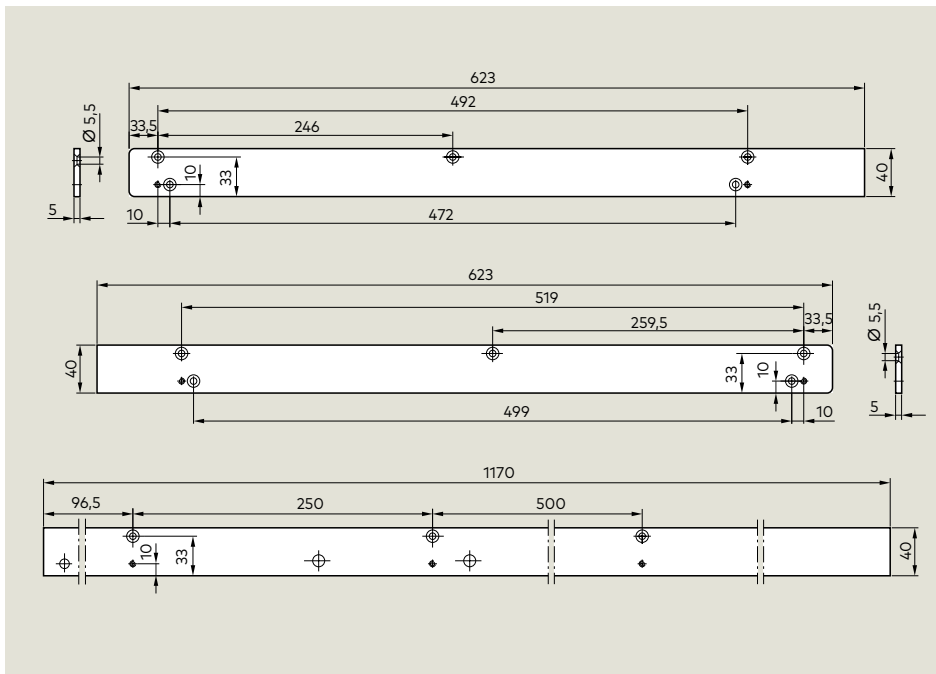
2-leaf doors



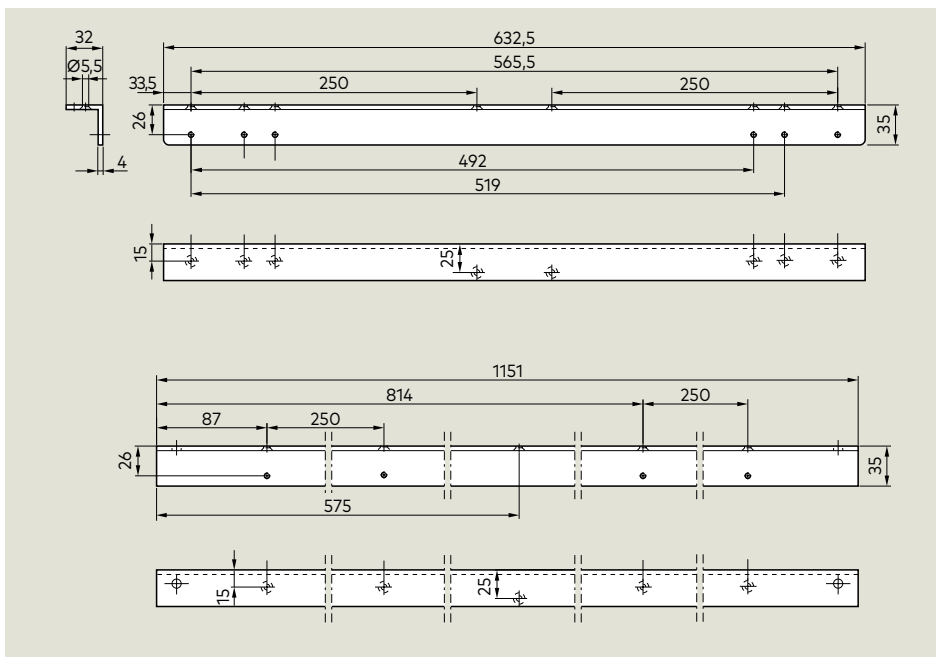
40 mm mounting plate for GSR XEA
 For installing the slide channels on door frames where direct installation is not possible.



40 mm mounting plate for GSR XEA BG
 For installing the slide channels on door frames where direct installation is not possible.















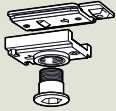
Transom mounting angle for GSR XEA BG
 For installing the slide channel on door frames with a deep transom.




Scope of delivery and accessories

1-leaf doors

			TS 98 XEA with FPP®	Mounting plate 30 mm for G-N XEA	Mounting plate 40 mm for G-N XEA	Mounting plate 40 mm for G-EMF XEA
						
			EN 1-6 with mounting plate 447101xx	574000xx	574100xx	574200xx
For product description, see page			10	32	32	32
G-N XEA 	□ 570100xx	12	□	■	△	△
G-N XEA for transom installation 	□ 570400xx	12	□	■		
G-N XEA with 320 mm main arm 	□ 570500xx		□	■		
G-EMF XEA 	□ 570800xx	14	□	■		△

Transom mounting angle for G-N XEA	Transom mounting angle for G-EMF XEA	Opening restrictor for G-N XEA	RF unit for G-N XEA 
			
574300xx	574400xx	35800093	18570000
32	32	12	12
△		△	△
		△	△
		△	△
	△		

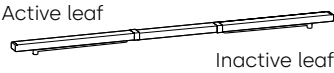

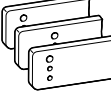
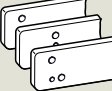
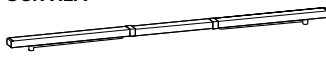




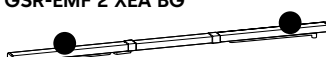
- Hold-open device
- Smoke detector
- xx See color options for item number extension
- Closing contact sold separately
- Slide channel sold separately
- △ Accessories
-  Not suitable for fire or smoke control doors

xx Color options

- 01 Silver similar to RAL 9006 (P 600)
- 09 Special color

Scope of delivery and accessories

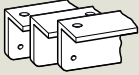

2-leaf doors

				TS 98 XEA with FPP®	Mounting plates for GSR XEA	Mounting plates for GSR XEA BG
 <p>Active leaf Inactive leaf</p>				 EN 1-6 with mounting plate ■ 44 1107xx	 574800xx	 574900xx
For product description, see page				10	31	31
 GSR XEA	□ VK 571010xx □ V 571020xx □ VL 571030xx	20	□	2 x ■	△	
 GSR-EMF 1 XEA	□ VK 571110xx □ V 571120xx □ VL 571130xx	21	□	2 x ■	△	
 GSR-EMF 2 XEA	□ VK 571310xx □ V 571320xx □ VL 571330xx	21	□	2 x ■	△	
 GSR-EMF 1G XEA	□ VK 571210xx □ V 571220xx □ VL 571230xx	21	□	2 x ■	△	
 GSR XEA BG	□ V 571440xx	24	□	2 x ■		△
 GSR-EMF 2 XEA BG	□ V 571740xx	25	□	2 x ■		△

		Door width (mm)	
		B	BG
GSR XEA/	VK	1220 – 1350	–
GSR-EMF XEA	V	>1350 – 2500	1500 – 2500
	VL	>2500 – 2800	–

Hold-open device – tested to EN 1155 (max. EN 5). For larger doors electro magnets (EM 500x) required.

- Hold-open device
- Smoke detector
- xx See color options for item number extension
- Closing contact sold separately
- Slide channel sold separately
- △ Accessories

<p>Transom mounting angle for GSR XEA BG</p> 	<p>Opening restrictor</p> 
574700xx	18020000
31	12
	▲
▲	▲

xx Color options

- 01 Silver similar to RAL 9006 (P 600)
- 09 Other colors

Technical information

1-leaf doors

TS 98 XEA with FPP® EN 1-6

Slide channel door closer with fire protection plate (FPP®) tested at Australian Fire Door for highest fire safety according to AS 1530.4 and EN 1154 with **CE** mark, in XEA design, including rapidly decreasing opening torque for easy door opening according to DIN SPEC 1104.

Installation types: Normal installation on the pull and push side, transom installation on the pull and push side. Closing speed, 2. 15°–0° doorway, latching speed (SoftFlow), hydraulically controlled opening dampening and delayed closing can be comfortably adjusted from the front via a valve. EN 1–6 closing force can be configured from the front using a cordless screw-driver, includes visual closing force indicator. Installation console with universal hole pattern system. Suitable for DIN-L and DIN-R. Height-adjustable slide channel.

Color

- Silver colored similar to RAL 9006 (P 600)
- Silver colored similar to RAL

TS 98 XEA EMF with FPP®

Slide channel door closer with fire protection plate (FPP®) tested at Australian Fire Door for highest fire safety according to AS 1530.4 and EN 1154 with **CE** mark, in XEA design, including rapidly decreasing opening torque for easy door opening according to DIN SPEC 1104.

Installation types: Normal installation on the pull and push side. Closing speed, 2. 15°–0° closing range, latching speed (SoftFlow), hydraulically controlled opening dampening and delayed closing can be comfortably adjusted from the front via a valve.

EN 1–6 closing force can be configured from the front using a cordless screwdriver, includes visual closing force indicator. Installation console with universal hole pattern system. Suitable for DIN-L and DIN-R. Slide channel with integrated, electromechanical hold-open unit, 24 V DC, tested according to EN 1155. Hold-open position (80°–140°) and release force can be adjusted. One-piece cover, 30 mm installation height. General building approval by DIBt, Berlin for use in hold-open systems. Acceptance test required.

Color

- Silver colored similar to RAL 9006 (P 600)
- Silver colored similar to RAL

Technical information

2-leaf doors

TS 98 XEA GSR with FPP®

Slide channel door closer with fire protection plate (FPP®) tested at Australian Fire Door for highest fire safety according to AS 1530.4 and EN 1154 with **CE** mark, in XEA design, including rapidly decreasing opening torque for easy door opening according to DIN SPEC 1104.

Installation type: Normal installation, pull side. Closing speed, 2. 15°–0° closing range, latching speed (SoftFlow), hydraulically controlled opening dampening and closing delay can be comfortably adjusted from the front via a valve. EN 1–6 closing force can be configured from the front using a cordless screwdriver, includes visual closing force indicator. Installation console with universal hole pattern system. Suitable for DIN-L and DIN-R. Slide channel with integrated, mechanical closing sequence control, tested according to EN 1158. Closing sequence is controlled via a thrust-rod clamping system, which is independent of the door closer hydraulic system, with overload protection and continuous cover, installation height 30 mm. Suitable for DIN-L and DIN-R. General building approval by DIBt, Berlin, in conjunction with fire and smoke control doors.

Color

- Silver colored similar to RAL 9006 (P 600)
- Silver colored similar to RAL

TS 98 XEA GSR EMF with FPP®

Slide channel door closer with fire protection plate (FPP®) tested at Australian Fire Door for highest fire safety according to AS 1530.4 and EN 1154 with **CE** mark, in XEA design, including rapidly decreasing opening torque for easy door opening according to DIN SPEC 1104.

Installation types: Door leaf installation, pull side. Closing speed, 2. 15°–0° closing range, latching speed (Soft Flow), hydraulically controlled opening dampening and closing delay can be comfortably adjusted from the front via a valve. EN 1–6 closing force can be configured from the front using a cordless screwdriver, includes visual closing force indicator. Installation console with universal hole pattern system. Suitable for DIN-L and DIN-R. Slide channel with integrated, mechanical closing sequence control, tested according to EN 1158. Electromechanical hold-open unit, 24 V DC, tested according to EN 1155. Hold-open position (80°–130°) and release force can be adjusted. Closing sequence is controlled via a thrust-rod clamping system, which is independent of the door closer hydraulic system, with overload protection and continuous cover, installation height 30 mm. Suitable for DIN-L and DIN-R. General building approval by DIBt, Berlin for use in hold-open systems. Acceptance test required.

Color

- Silver colored similar to RAL 9006 (P 600)
- Silver colored similar to RAL

TS 98 XEA GSR BG with FPP®

Slide channel door closer with fire protection plate (FPP®) tested at Australian Fire Door for highest fire safety according to AS 1530.4 and EN 1154 with **CE** mark, in XEA design, including rapidly decreasing opening torque for easy door opening according to DIN SPEC 1104.

Installation types: Normal installation, push side. Closing speed, 2. 15°–0° doorway, latching speed (SoftFlow), hydraulically controlled opening dampening and delayed closing can be comfortably adjusted from the front via a valve.

EN 1–6 closing force can be configured from the front using a cordless screwdriver, includes visual closing force indicator. Installation console with universal hole pattern system. Suitable for DIN-L and DIN-R. Slide channel with integrated, mechanical closing sequence control, tested according to EN 1158. Closing sequence is controlled via a thrust-rod clamping system, which is independent of the door closer hydraulic system, with overload protection and continuous cover, installation height 30 mm. Suitable for DIN-L and DIN-R. General building approval by DIBt, Berlin, in conjunction with fire and smoke control doors.

Color

- Silver colored similar to RAL 9006 (P 600)
- Silver colored similar to RAL

TS 98 XEA GSR EMF 2 BG with FPP®

Slide channel door closer with fire protection plate (FPP®) tested at Australian Fire Door for highest fire safety according to AS 1530.4 and EN 1154 with **CE** mark, in XEA design, including rapidly decreasing opening torque for easy door opening according to DIN SPEC 1104.

Installation types: Normal installation, push side. Closing speed, 2. 15°–0° doorway, latching speed (SoftFlow), hydraulically controlled opening dampening and delayed closing can be comfortably adjusted from the front via a valve.

EN 1–6 closing force can be configured from the front using a cordless screwdriver, includes visual closing force indicator. Installation console with universal hole pattern system. Suitable for DIN-L and DIN-R. Slide channel with integrated, mechanical closing sequence control, tested according to EN 1158.

Electromechanical hold-open unit in active and inactive leaf, 24 V DC, tested according to EN 1155. Hold-open position (80°–120°) and release force can be adjusted. Closing sequence is controlled via a thrust-rod clamping system, which is independent of the door closer hydraulic system, with overload protection and continuous cover, installation height 30 mm. Suitable for DIN-L and DIN-R. General building approval by DIBt, Berlin for use in hold-open systems. Acceptance test required.

Color

- Silver colored similar to RAL 9006 (P 600)
- Silver colored similar to RAL

Regulations/information

Hold-open devices

The use of hold-open devices is subject to special regulations due to official approval requirements. They particularly concern acceptance, ongoing monitoring and maintenance.

This information will inform all parties involved regarding the most important measures in operating hold-open devices as set forth in official regulations.

1. General

1.1 In closures that are held open by a hold-open system, the required space for closing must be kept clear at all times. This area must be clearly marked with a label, floor markings or similar. If necessary, constructive measures must be employed to ensure that lines, stored goods or components (e.g. suspended ceilings or their components) do not fall into the area that must be kept clear.

1.2 Smoke detectors should be used for hold-open devices to the extent possible. Smoke detectors must be used for hold-open devices for closures in emergency routes.

1.3 Every hold-open device must also have a manual triggering capability without affecting the operational capability of the release mechanism. In door closers with an electromagnetic hold-open unit, it can be overridden by applying slight pressure on the door leaf. If magnetic clamps or free-swinging door closers are used, triggering is done via a button. The manual release used for this must be read and bear the letters "close door". "The button must be in the vicinity of the closure and may not be concealed by the held-open closure.

2. Acceptance test

2.1 After ready-to-use installation at the place of use, proper function and correct installation should be ascertained via an acceptance test. The acceptance test may only be carried out by the manufacturer's professionals in monitoring systems and/or hold-open devices, by these authorized professionals or a test center designated for that purpose.

2.2 After the acceptance test has been carried out, an approval plate (105 x 52 mm) must be permanently affixed on the wall directly near the closure with the inscription:

Hold-open system

Approved by

(Company signature, name and year of acceptance)

2.3 A certificate of successful acceptance testing must be issued to the operator, and the same must store it.

3. Periodic monitoring

3.1 This hold-open system must continuously be kept in an operational state and must be checked at least once per month for proper functionality.

3.2 Furthermore, the operator is obliged to test or have testing performed on proper and error-free interoperation of all devices along with maintenance, unless a shorter time period is specified in the approval notice. This testing and maintenance may only be carried out by a professional or person trained for this.

3.3 The scope, result, and time of periodic monitoring must be recorded, and these recordings must be stored by the operator.



**Door
Hardware**



**Entrance
Systems**



**Electronic
Access & Data**



**Interior Glass
Systems**



**Lodging
Systems**



**Mechanical
Key Systems**



Safe Locks



Services

Our Sustainability Commitment

We are committed to fostering sustainable practices along our entire value chain in line with our economic, environmental and social responsibilities now and into the future. We seek to engage in open and transparent dialogue with all our stakeholders to develop strategies and actions based on clear targets and a continuous improvement approach, we will also actively report on our progress.



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Important information

This Technical Product Guide is intended to provide general information on the installation of dormakaba products and should not be used as a substitute for professional advice. There are many variables that can influence construction projects which affect whether a particular construction technique is appropriate. Before proceeding with any project, we recommend you obtain professional advice to ascertain the appropriate construction techniques to suit the circumstances of your project. We recommend you use qualified tradespersons to install these products. As of November 2024.

The printed colours indicating the surface finishes are not 100% accurate, but do provide a useful guide.

Statements made with regard to the nature or use of the products are for the purposes of descriptions. Assent with regard to the existence of particular properties or particular uses always requires special written agreement. Pictures may show special designs which are different to the standard scope of delivery.