dormakaba

ITS 96 system
Integrated door closers

Technical Product Brochure

Concealed system for prestigious doors
ITS 96 door closers + G 96 slide channels

The ITS 96 system blends almost invisibly into the door and frame thanks to its compact design and thus integrates unobtrusively into the overall architectural concept.
The many different design variants of door closer and slide channel ensure a suitable solution for virtually any requirement: from the single-leaf framed door with hold-open function to the double-leaf external door designed as a fire and smoke door that also opens outwards.

Contents

System advantages
Built-in reliability

Both closer and slide channel of the ITS 96 system have been given such a compact design that they can be concealed in the door and frame. At the same time, they offer the accessibility and wide range of functions you would expect from high-quality door closers. Thanks to its exceptionally compact design, the ITS 96 system can be installed on almost all doors from 40 mm door leaf thickness.

For the trade
- Low inventory costs thanks to streamlined programme and separate packaging of closer and slide channels
- Identical slide channels and accessories for all ITS 96, ITS 96 BCA and ITS 96 FL door closers
- With the BCA EN 3-6 variant, one closer for internal and external doors. No double stock-keeping

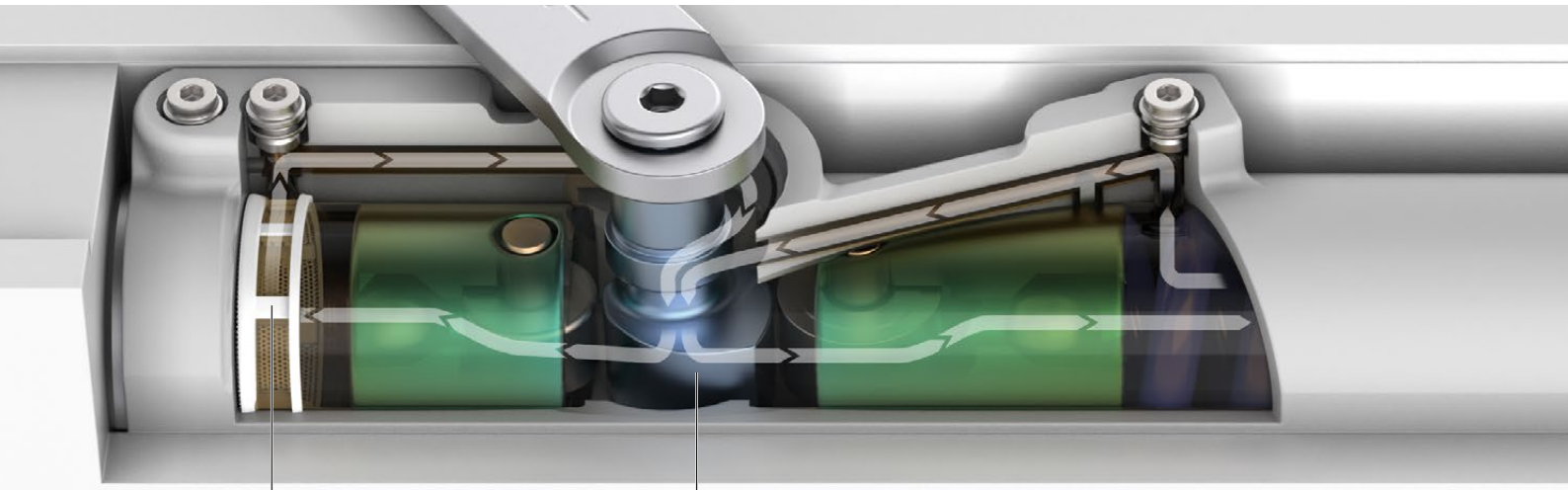
For the installer
- Can be installed on both LH and RH doors
- Identical installation dimensions for ITS 96 EN 3-6, ITS 96 BCA EN 3-6 and ITS 96 FL EN 3-6 except for the length
- All functions can be adjusted when installed
- The ITS 96 BCA can also be installed on external doors opening outwards – one door closer for many structural situations.

For the planner
- Perfect appearance of prestigious doors thanks to concealed installation
- Complies with legal requirements for barrier-free construction
- Suitable for universal use on 1- or 2-leaf doors
- With BCA EN 3-6, a door closer system for external and internal doors

For the operator/user
- Optimum protection against vandalism due to concealed installation
- Advanced accessibility and fully controlled, reliable closing with adjustable latching action
- Controlled opening with backcheck (ITS 96 BCA) reduces the risk of damage from uncontrolled door slamming.
- Free-swing function (ITS 96 FL) from a door opening able > 0°
- Virtually resistance-free opening of doors in the area requiring preventive fire protection

easy open

Patented technology
Comfortable and durable

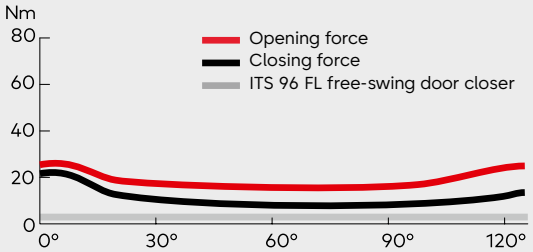


Symbolic illustration ITS 96 BCA

Oil circuit with patented oil filter
The maintenance-free hydraulic system is designed as a closed circuit. The filter ensures reliable function over the entire product life cycle.

Matched materials
Thermally constant in both summer and winter. No readjustment with changing temperatures. The materials of the door closer components are carefully matched – from the housing with the valves to the pistons. Material friction is reduced to a minimum even with changing temperatures. Advantage: longer running times even with high access frequencies.

EasyOpen technology
With dormakaba EasyOpen technology, the heart-shaped cam instantly reduces the opening force that has to be overcome significantly. Children, elderly or people with disabilities in particular can open the door effortlessly. However, it is not only this group of users that benefits from the advantages of the rapidly decreasing opening force, as this technology generally ensures maximum ease of access thanks to significantly reduced effort.



Force profile of an ITS 96 slide channel door closer
(size EN 3, minimum ITS 96 EN 3-6 closing force setting)

ITS 96 door closer
Practical functions and features

Maximum accessibility: easy opening and controlled closing
- Significantly reduced opening force thanks to EasyOpen technology
- Adjustable closing speed
- Adjustable latching action
- ITS 96 FL design with free-swing function for resistance-free access

Safe opening: thinking backcheck. The backcheck protects against impulsive slamming
- Progressively brakes the opening speed precisely from a certain angle
- Door delay can be regulated via valve

Durable and temperature-resistant
- Temperature-resistant and stable due to materials with similar thermal expansion properties
- Patented filter element* prevents oil contamination and guarantees a longer service life.
- Suitable also for external doors opening outwards

*Design ITS 96 BCA, ITS 96 EN 2-4, ITS 96 EN 3-6.

Data and features		ITS 96 BCA	ITS 96		ITS 96 FL
Variable closing force	Size	EN 3-6	EN 2-4	EN 3-6	EN 3-6
Standard doors[1]	≤ 1,100 mm	●	●	●	●
	≤ 1,400 mm	●	–	●	●
External doors, opening outwards		●	–	–	–
Fire and smoke doors[1]	≤ 1,100 mm	●	●	●	●
	≤ 1,400 mm	●	–	●	●
Door leaf thickness	≥ 40 mm	–	●	–	–
	≥ 50 mm	●	●	●	●
Max. door leaf weight in kg[2]		250	130	180	180
Same design for LH and RH versions		●	●	●	●
Slide channel arm		●	●	●	●
Closing force infinitely adjustable by setting screw		●	●	●	●
Closing speed infinitely adjustable by valve 120° to 0°		●	●	●	●
Latching action infinitely adjustable by valve 7° to 0°		●	●	●	●
Cushioned limit stay, mechanical		●	●	●	●
EasyOpen technology with rapidly decreasing opening force		●	●	●	●
Adjustable hydraulic backcheck		●	–	–	–
Mechanical hold-open		○	○	○	○
Max. door opening angle (depending on door design)		approx. 120°	approx. 120°	approx. 120°	approx. 120°
Input voltage		–	–	–	24 V DC ± 15 %
Power input		–	–	–	3 W
Weight in kg		2.5	1.3	2.5	4.2
Dimensions in mm	Length	291	277	291	476
	Installation depth	39.5	32	39.5	39.5
	Height	51	42	51	51
Door closer tested to EN 1154		●	●	●	●
Hold-open devices tested to EN 1155		●	●	●	●
Door coordinator tested to EN 1158		●	●	●	●
CE-marking for building products		●	●	●	●
Suitable for barrier-free building to DIN 18040 and DIN SPEC 1104 (CEN/TR 15894)		●	●	●	●

● Yes – No ○ Optional

[1] For particularly high and heavy doors or doors which constantly have to close against wind pressure, the next larger door closer size should be selected or a higher closing force should be set.

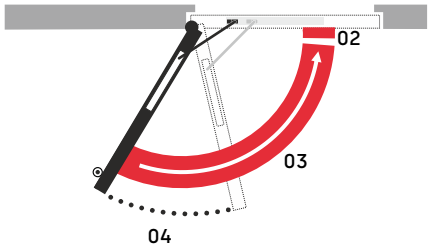
[2] Measured on a 1,000 mm wide door.

All ITS 96 door closers come equipped with EasyOpen technology

easy open

ITS 96 | Proven door closer featuring EasyOpen technology

The functions of the ITS 96 can be customised to the respective door situation and the local conditions. The closing can be easily adjusted to the respective door width using a setting screw accessible from the top. The closing speed and latching action can likewise be adjusted from the top at any time, even when installed.



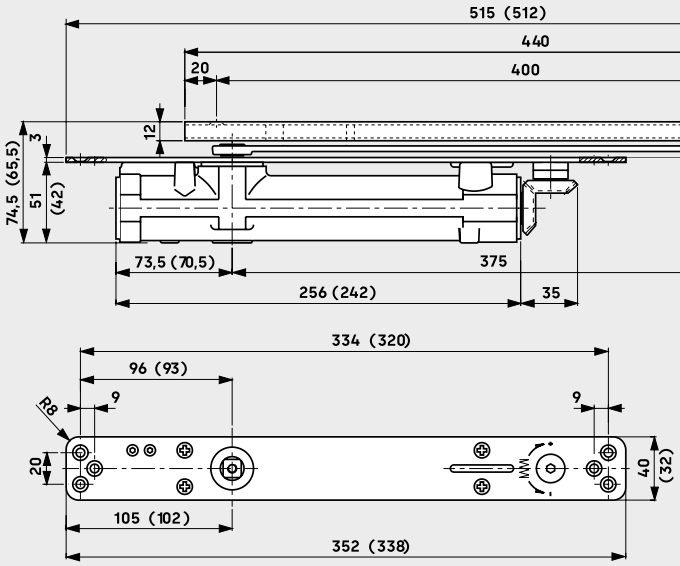
01 Setting screw to set the closing force
02 Adjustable latching action (7° to 0°)
03 Adjustable closing speed 120° to 0°
04 Cushioned limit stay between 80° and 120° via the slide channel

Designs
- EN 2-4 and EN 3-6
- Optional: 1.5 mm, 4 mm or 8 mm spindle extension

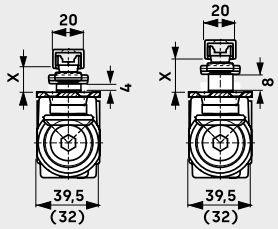
Accessory options
- G 96 N, G 96 N20, G 96 EMF slide channel or slide channels with GSR door coordinator
- Fixing elements for sectional frame doors (see page 40)

F Evidence of suitability
The ITS 96 has been tested by the Materials Testing Office NRW in Dortmund to EN 1154. Evidence of suitability of the fire and smoke door to be used with the ITS 96 is also required.

ITS 96 without spindle extension and with G 96 N20 slide channel
Illustration shows design EN 3-6
Dimensions in ( ) = design EN 2-4



With spindle extension
4 mm/8 mm

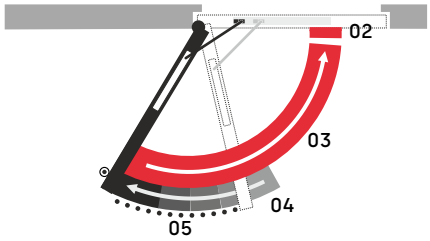


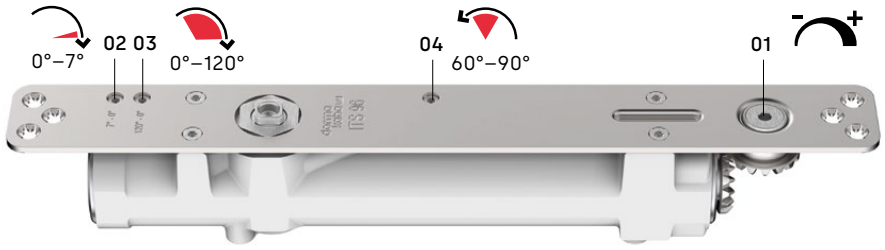
Design ITS 96:	X in mm
without spindle extension with installation of K8/K12 slide channel*	8.5/12
with 1.5 mm spindle extension with installation of K8/K12 slide channel*	10/13.5
with 4 mm spindle extension with installation of K8/K12 slide channel*	12.5/16
with 8 mm spindle extension with installation of K8/K12 slide channel*	16.5/20

*See product description for the slide channel.

ITS 96 BCA | EasyOpen technology and backcheck to protect against uncontrolled slamming

The functions of the ITS 96 BCA can be customised to the respective door situation and the local conditions. The closing can be easily adjusted to the respective door width using a setting screw accessible from the top. The closing speed, latching action and backcheck can likewise be adjusted from the top at any time, even when installed.





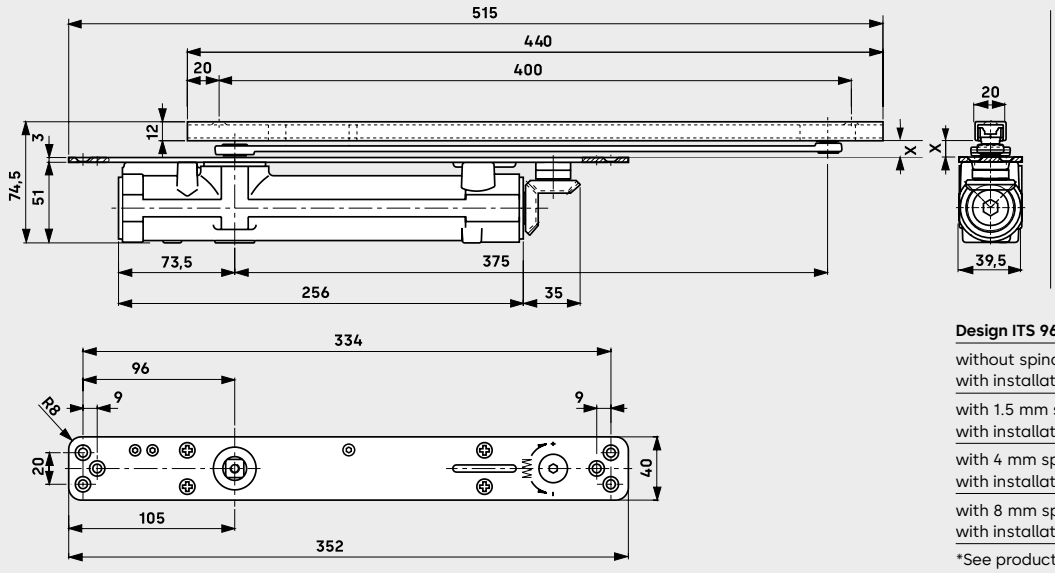
01 Setting screw to set the closing force
02 Adjustable latching action (7° to 0°)
03 Adjustable closing speed 120° to 0°
04 Adjustable backcheck
05 Cushioned limit stay between 80° and 120° via the slide channel

Designs
- EN 3-6
- Optional: 1.5 mm, 4 mm or 8 mm spindle extension

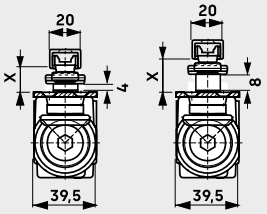
Accessory options
- G 96 N, G 96 N20, G 96 EMF slide channel or slide channels with GSR door coordinator
- Fixing elements for sectional frame doors (see page 40)

F **Evidence of suitability**
The ITS 96 BCA has been tested by the Materials Testing Office NRW in Dortmund to EN 1154. Evidence of suitability of the fire and smoke door to be used with the ITS 96 is also required.

ITS 96 BCA without spindle extension and with G 96 N20 slide channel



With spindle extension
4 mm/8 mm



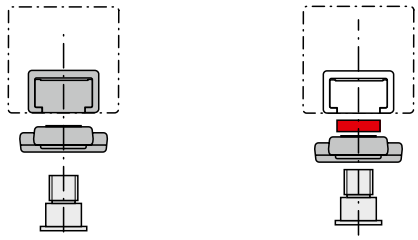
Design ITS 96 BCA:	X in mm
without spindle extension with installation of K8/K12 slide channel*	8.5/12
with 1.5 mm spindle extension with installation of K8/K12 slide channel*	10/13.5
with 4 mm spindle extension with installation of K8/K12 slide channel*	12.5/16
with 8 mm spindle extension with installation of K8/K12 slide channel*	16.5/20

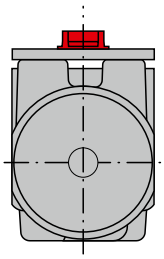
*See product description for the slide channel.

Application and installation

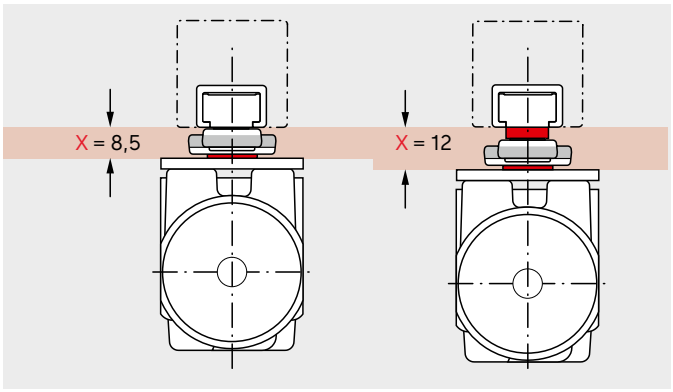
The concealed ITS 96/ITS 96 FL slide channel door closer system is suitable for a wide variety of door designs and rebate clearance dimensions. Suitability is achieved through the combination of different closer spindle lengths and the universal K8/K12 slide channel.

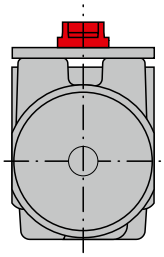
G 96 ...



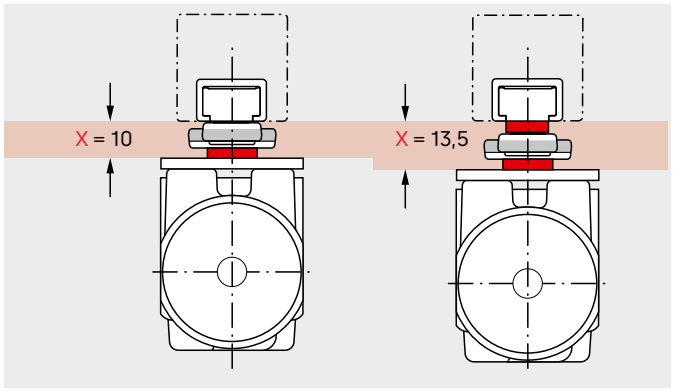


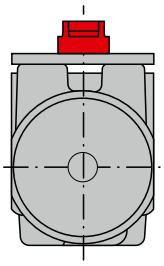
ITS 96 2-4
ITS 96 3-6 (BCA)
ITS 96 FL 3-6



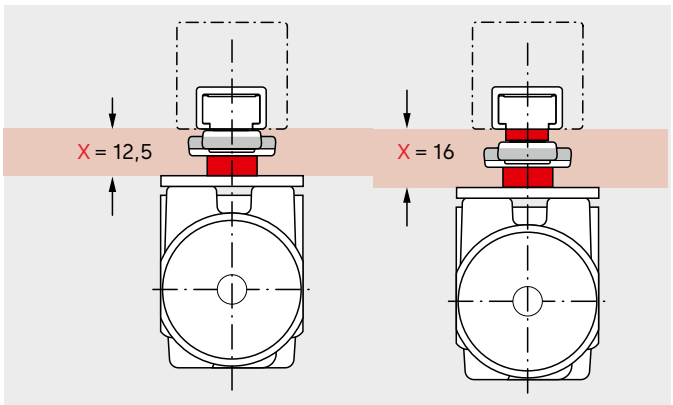


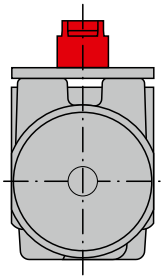
ITS 96 2-4
ITS 96 3-6 (BCA)
ITS 96 FL 3-6 with 1.5 mm spindle extension



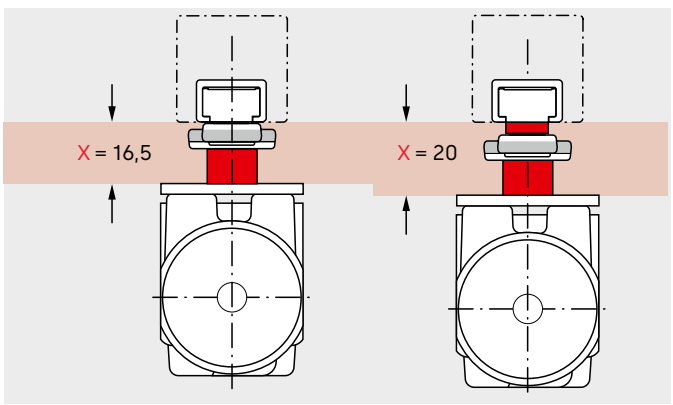


ITS 96 2-4
ITS 96 3-6 (BCA)
ITS 96 FL 3-6 with 4 mm spindle extension

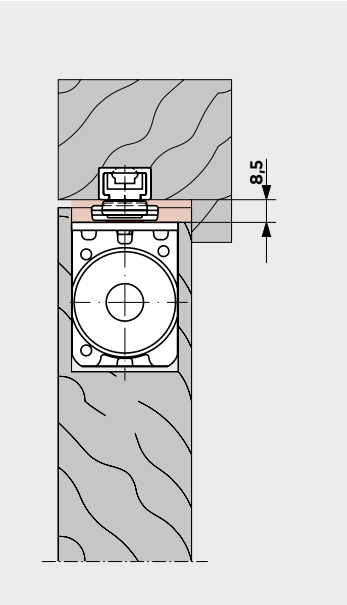




ITS 96 2-4
ITS 96 3-6 (BCA)
ITS 96 FL 3-6 with 8 mm spindle extension

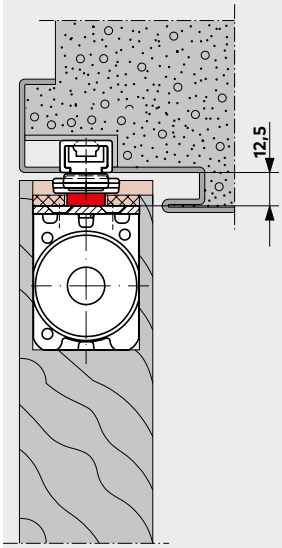


Timber door, flush-closing, 8,5 mm rebate clearance, with ITS 96 and G 96 N20 K8 slide channel.

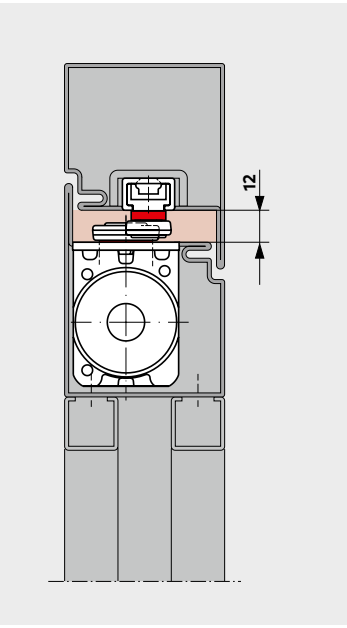


Timber door with steel frame, flush-closing, 12.5 mm rebate clearance, with ITS 96 with 4 mm spindle extension and G 96 N20 K8 slide channel.

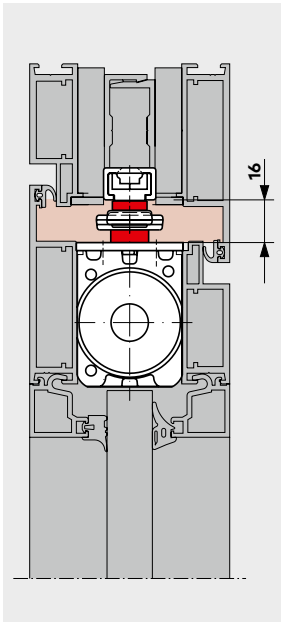
Observe the basic dimensions.



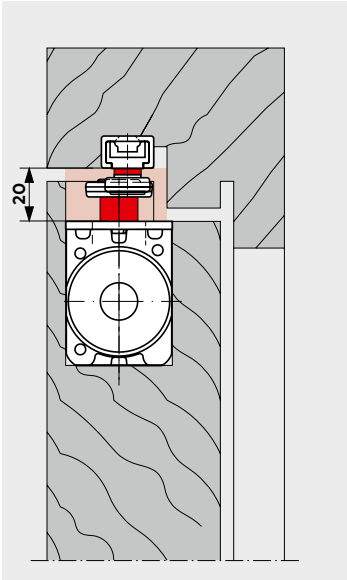
Tubular steel frame door, flush-closing, 12 mm rebate clearance, with ITS 96 and G 96 N20 K12 slide channel.



Tubular aluminium frame door, flush-closing, 16 mm rebate clearance, with ITS 96 with 4 mm spindle extension and G 96 N20 K12 slide channel.

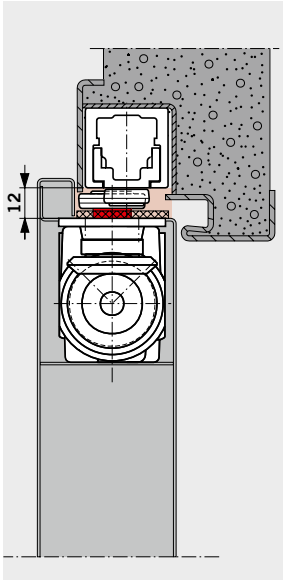


Timber door with solid frame, double-rebated, 20 mm rebate clearance, with ITS 96 with 8 mm spindle extension and G 96 N20 K12 slide channel.



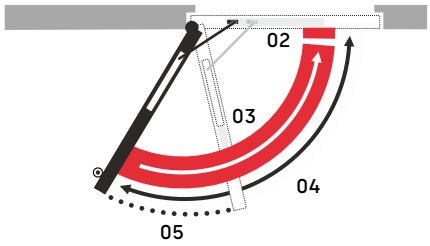
Sheet steel door with steel frame, over-rebated, 12 mm rebate clearance, with ITS 96 with 4 mm spindle extension and G 96 EMF K8 slide channel.

Observe the basic dimensions.



ITS 96 FL | Door closer with free-swing function and EasyOpen technology

When the door is opened, the **free-swing function is activated from a door opening angle > 0°**. The free-swing function allows easy access to the door as only the resistance of the hinges works against opening. In the event of a fire or power failure, the door is safely closed by the door closer. The ITS 96 FL is compliant with DIN 18040 up to EN 5 when de-energised. The closing can be easily adjusted to the respective door width using a setting screw accessible from the top. The closing speed and latching action can likewise be adjusted from the top at any time, even when installed.



01 Setting screw to set the closing force
02 Adjustable latching action (7° to 0°)
03 Adjustable closing speed (de-energised)
04 Free-swing range
05 Cushioned limit stay between 80° and 120° via the slide channel

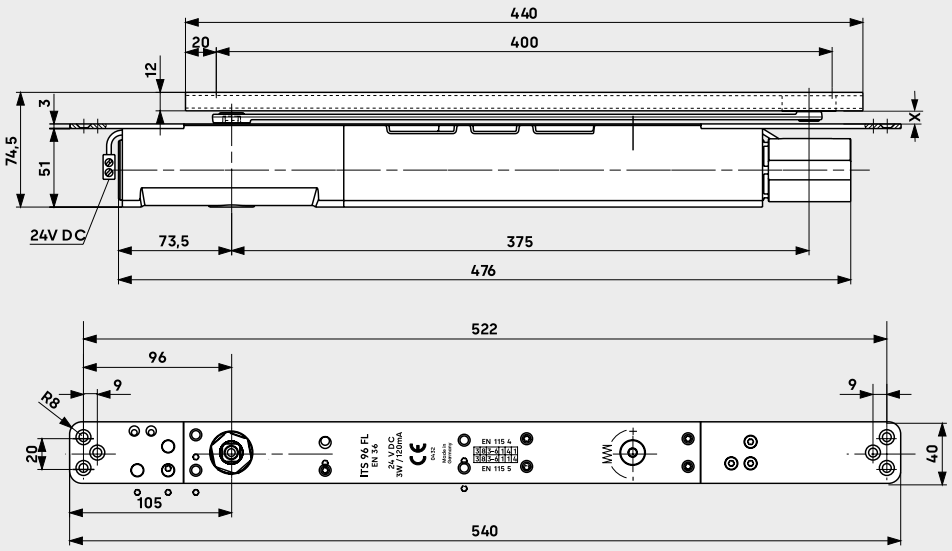
Designs
- EN 3-6
- Without spindle extension, with 1.5 mm, 4 mm or 8 mm spindle extension

Accessory options
- G 96 N, G 96 N20, G 96 EMF slide channel or slide channels with GSR door coordinator
- Fixing elements for sectional frame doors (see page 40)

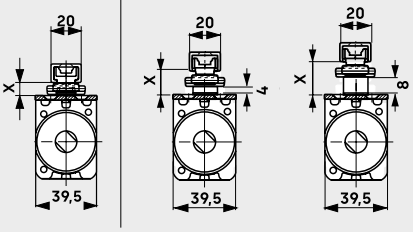
Regulations/notes
- The use of hold-open systems is subject to special regulations due to the statutory authorisation requirements (see page 43).
- The maximum door opening angle is frequently greater than the available free-swing range.
- According to the DIBt guidelines for hold-open systems, a manual release button must be used for free-swing door closers.

F Evidence of suitability
The ITS 96 FL has been tested by the Materials Testing Office NRW in Dortmund to EN 1154.
Evidence of suitability of the fire and smoke door to be used with the ITS 96 is also required.

ITS 96 FL without spindle extension and with G 96 N20 slide channel



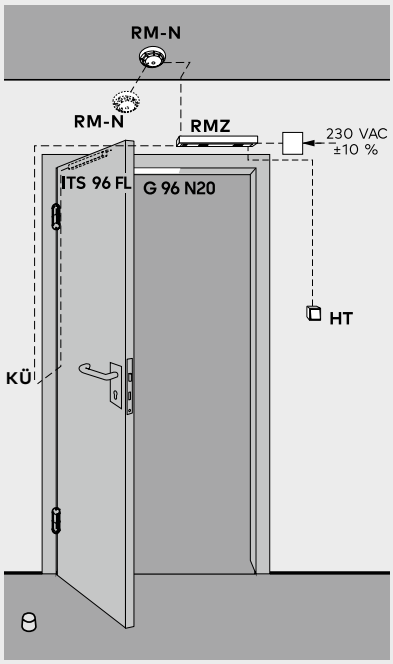
With spindle extension
4 mm/8 mm



Design ITS 96 FL:	X in mm
without spindle extension with installation of K8/K12 slide channel*	8.5/12
with 1.5 mm spindle extension with installation of K8/K12 slide channel*	10/13.5
with 4 mm spindle extension with installation of K8/K12 slide channel*	12.5/16
with 8 mm spindle extension with installation of K8/K12 slide channel*	16.5/20

*See product description for the slide channel.

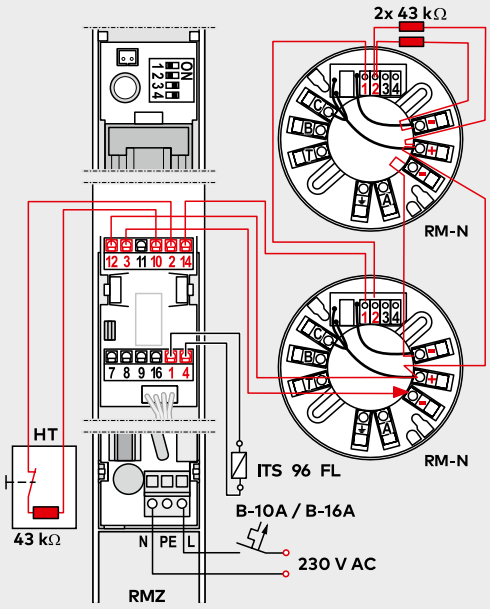
Application example hold-open system



Recommended cabling KÜ480 + LK12:
2-conductor cable, 0.75 mm², flexible

Wiring diagram, example RMZ with RM-N

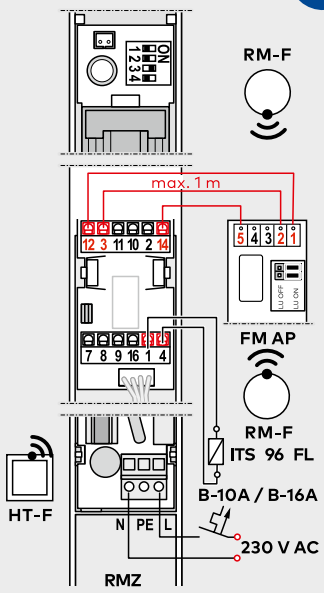
Recommended cabling
230 V AC NYM 3x 1.5 mm² (max.)
24 V DC J - Y (St) Y 2 x 2 x 0.6 mm²/0.8 mm²



RMZ with FM AP/RM-F radio module

Recommended cabling
230 V AC NYM 3 x 1.5 mm² (max.)
24 V DC 0.6 mm²/0.8 mm²

NEW



RM-N Smoke detector
RMZ Smoke detection control
KÜ Cable transition
HT Manual switch

G 96 slide channels
Customised solutions

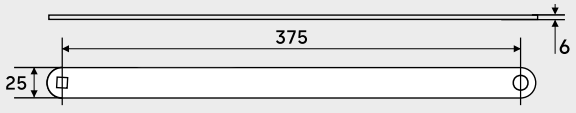
An ITS 96 system for single- and double-leaf doors is made up of the door closer and slide channel components. The range of functions is determined by the selected components.

Slide channels	Dimensions (cross-section W x H)	**ITS 96 BCA** with backcheck, also opening outwards	**ITS 96** EN 2-4/EN 3-6	**ITS 96 FL** with free-swing function for virtually resist-ance-free opening
1-leaf door systems				
G 96 N20 with integrated mechanically cushioned limit stay	20 x 12 mm	●	●	●
G 96 N with integrated mechanically cushioned limit stay	31 x 20 mm	●	●	●
G 96 EMF with electro-magnetic hold-open function	31 x 30 mm	●	●	●
2-leaf door systems with GSR door coordinator				
G 96 GSR Slide channels with integrated mechanically cushioned limit stay	31 x 30 mm	●	●	●
G 96 GSR EMF1 Slide channels with electro-magnetic hold-open function on the inactive leaf	31 x 30 mm	●	●	●
G 96 GSR EMF2 Slide channels with electro-magnetic hold-open function on the inactive and active leaf	31 x 30 mm	●	●	●

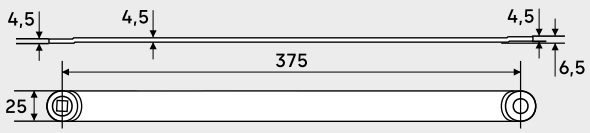
● Tested on fire and smoke doors ○ Not authorised for fire and smoke doors

We offer forged and punched cranked arms for customisation to suit different door situations.

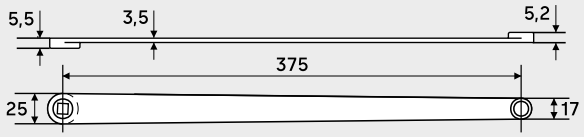
Punched arm



Punched cranked arm

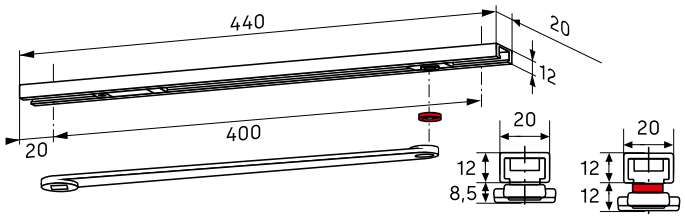


Forged arm



Illustrations show RH version.

G 96 N20 | Standard slide channel with cushioned limit stay



K8/K12 installation variant
K12 with spacer
K8 without spacer

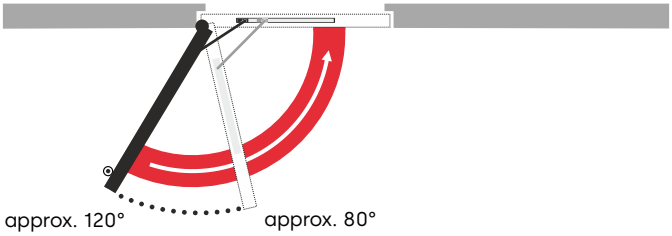
The integrated mechanically cushioned limit stay in the slide channel is progressively cushioned and protects against damage to walls and doors when doors are opened too far during normal use. The opening angle can be set between approx. 80° and max. 120°.

Combination options
ITS 96, ITS 96 BCA, ITS 96 FL door closers

Scope of delivery
G 96 N20 slide channel, arm, slide block, spacer for K12 installation variant (rebate clearance 12), cushioned limit stay, fixing screws and end caps.

Designs
- LH or RH
- Punched cranked arm in various colours or silver forged arm

Accessory options
- Hold-open unit for G 96 N20
- Fixing elements for sectional frame doors (see page 40)

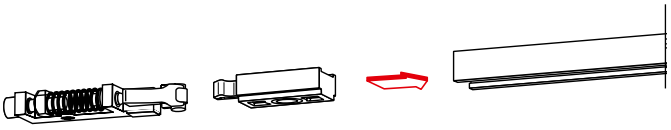


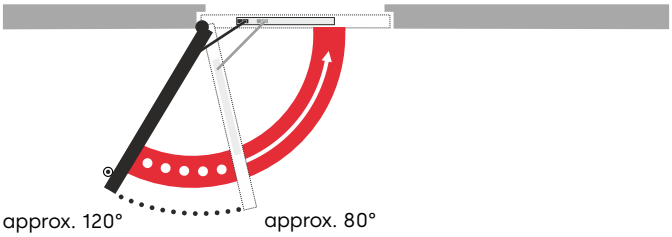
Cushioned limit stay

The cushioned limit stay is no overload release and in many cases does not substitute a door stopper.

F Evidence of suitability
The G 96 N20 slide channel has been tested to EN 1154 in combination with the ITS 96 and ITS 96 FL.

Hold-open unit for G 96 N20





Hold-open range

The hold-open unit enables precise hold-open action for the door without fallback. The release force can be customised to the respective door situation. The hold-open unit is suitable for both LH and RH doors and is designed for retrofitting to the slide channel.

Note
RF hold-open unit is not authorised for fire and smoke doors.

Hold-open range
The hold-open range can be set anywhere in the door opening range. The hold-open point limits the maximum opening angle.

The hold-open unit does not substitute a door stopper.

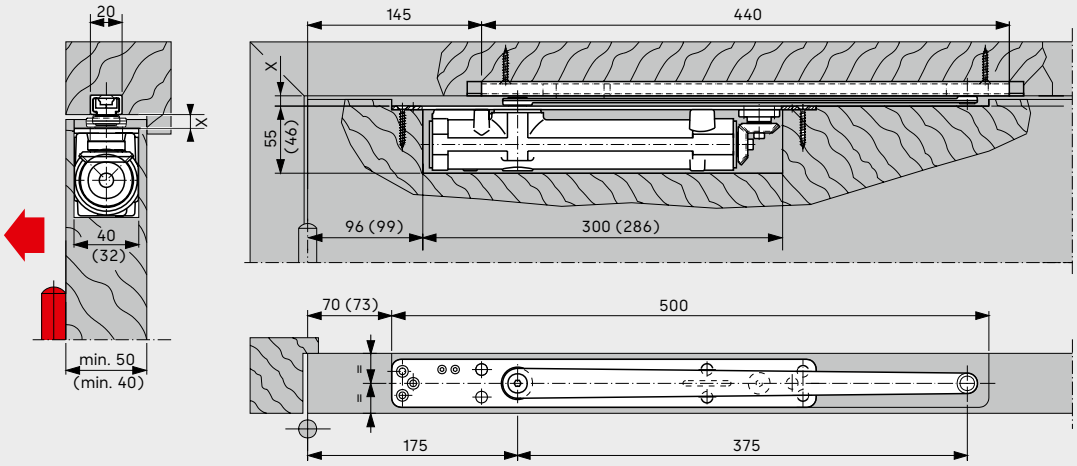
G 96 N20 installation examples with ITS 96 or ITS 96 BCA

Examples: LH door, RH door mirror-inverted

Design ITS 96/ITS 96 BCA:	**X** in mm
without spindle extension, with installation of K8/K12 slide channel	8.5/12
with 1.5 mm spindle extension, with installation of K8/K12 slide channel	10/13.5
with 4 mm spindle extension, with installation of K8/K12 slide channel	12.5/16
with 8 mm spindle extension, with installation of K8/K12 slide channel	16.5/20

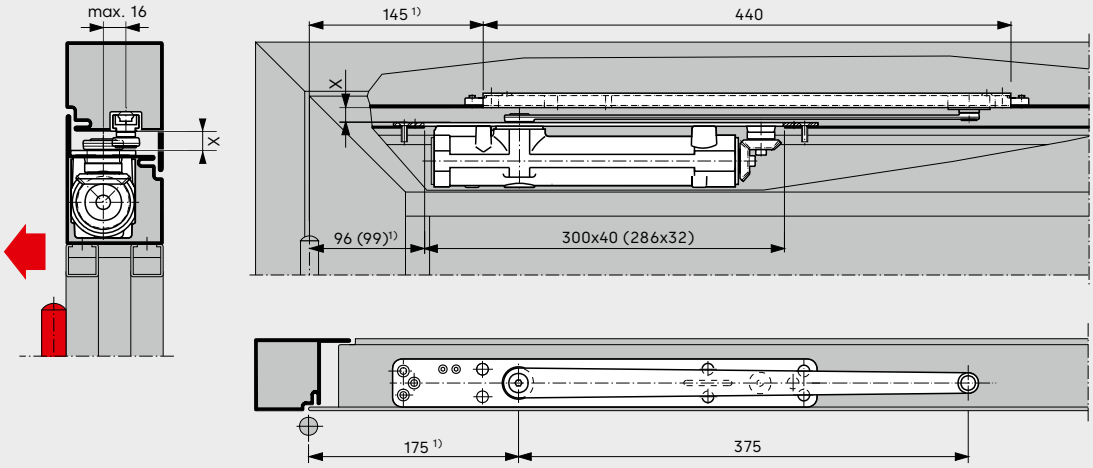
Timber door

Illustration shows design EN 3-6
Dimensions in ( ) = design EN 2-4



Framed door

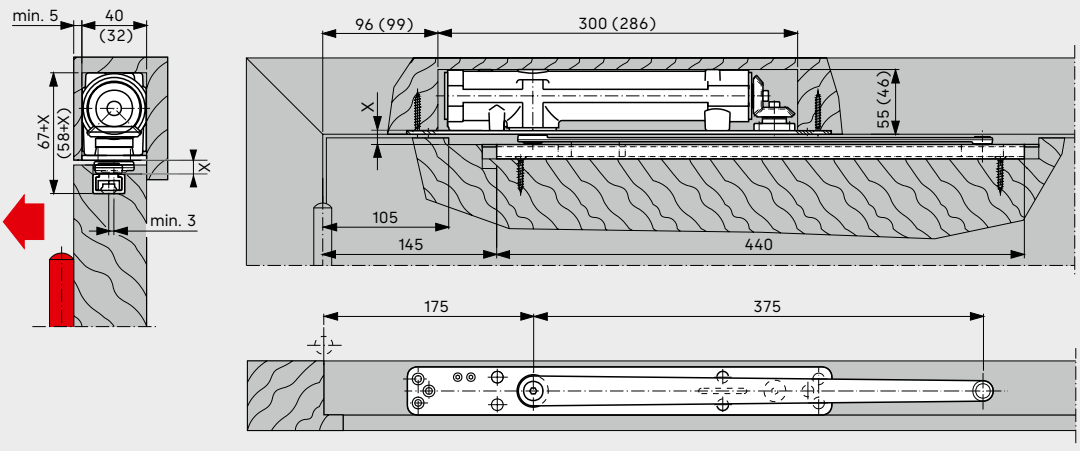
Illustration shows design EN 3-6
Dimensions in ( ) = design EN 2-4



1) Add 25 mm for frame designs with corner-angle reinforcement.

Timber door, Inverted installation

Illustration shows design EN 3-6
Dimensions in ( ) = design EN 2-4

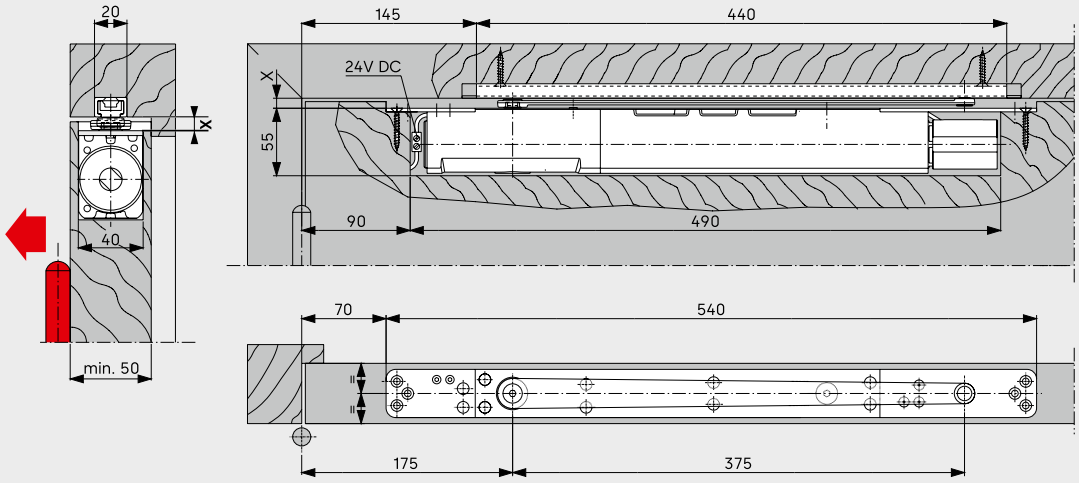


G 96 N20 installation examples with ITS 96 FL

Examples: LH door, RH door mirror-inverted

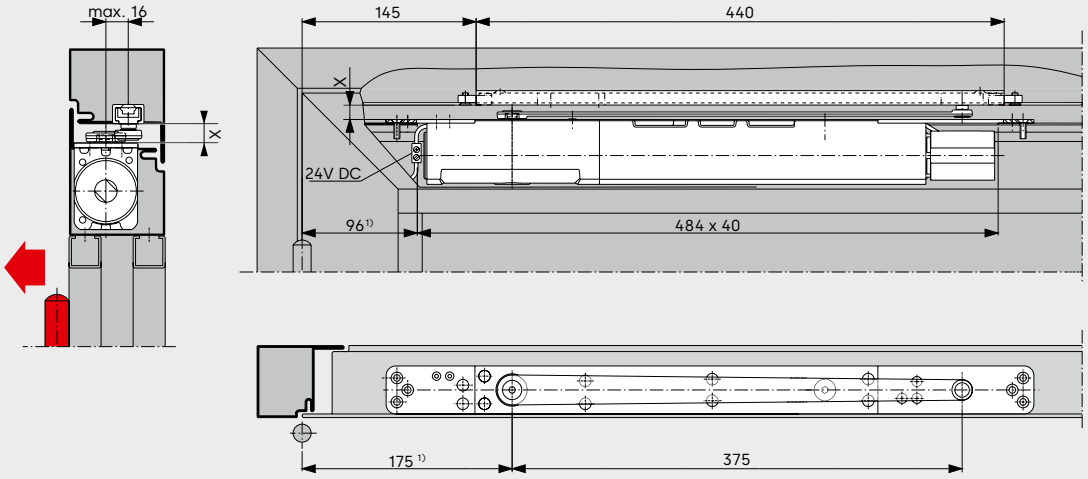
Design ITS 96 FL:	**X** in mm
without spindle extension, with installation of K8/K12 slide channel	8.5/12
with 1.5 mm spindle extension, with installation of K8/K12 slide channel	10/13.5
with 4 mm spindle extension, with installation of K8/K12 slide channel	12.5/16
with 8 mm spindle extension, with installation of K8/K12 slide channel	16.5/20

Timber door



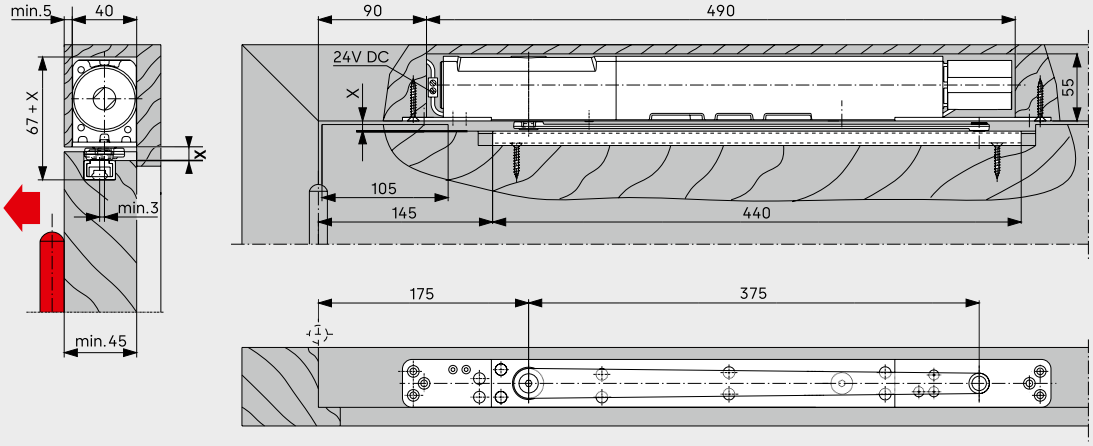
Note: for timber door leaf installation

Framed door

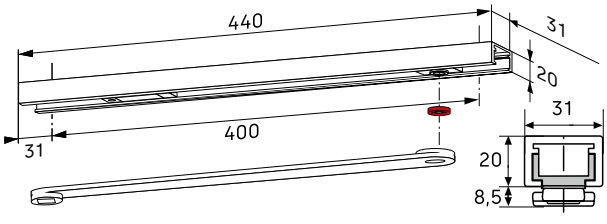


1) Add 25 mm for frame designs with corner-angle reinforcement.

Timber door, Inverted installation



G 96 N | Standard slide channel with cushioned limit stay



K8/K12 installation variant
K12 with spacer
K8 without spacer

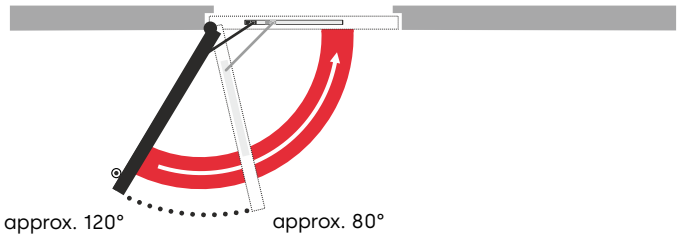
The integrated mechanically cushioned limit stay in the slide channel is progressively cushioned and protects against damage to walls and doors when doors are opened too far during normal use. The opening angle can be set between approx. 80° and max. 120°.

Combination options
ITS 96, ITS 96 BCA, ITS 96 FL door closers

Scope of delivery
G 96 N slide channel, arm, slide block, spacer for K12 installation variant (rebate clearance 12), cushioned limit stay, fixing screws and end caps.

Designs
- LH or RH
- Punched cranked arm in various colours or silver forged arm

Accessory options
- Hold-open unit for G 96 N
- Fixing elements for sectional frame doors (see page 40)

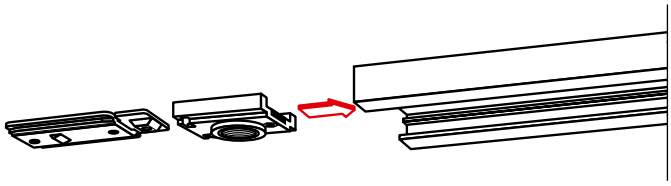


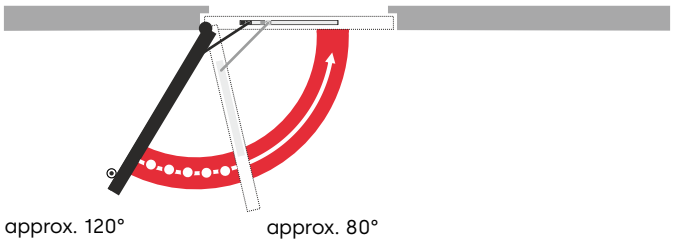
Cushioned limit stay

The cushioned limit stay is no overload release and in many cases does not substitute a door stopper.

F Evidence of suitability
The G 96 N slide channel has been tested to EN 1154 in combination with the ITS 96 and ITS 96 FL.

Hold-open unit for G 96 N





Hold-open range

The hold-open unit for G 96 N enables precise hold-open action for the door without fallback. The release force can be customised to the respective door situation. The hold-open unit is suitable for both LH and RH doors and is designed for retrofitting to the slide channel.

Note
RF hold-open unit is not authorised for fire and smoke doors.

Hold-open range
The hold-open range can be set anywhere in the door opening range. The hold-open point does not limit the maximum opening angle. The door can be opened beyond the hold-open point.

The hold-open unit does not substitute a door stopper.

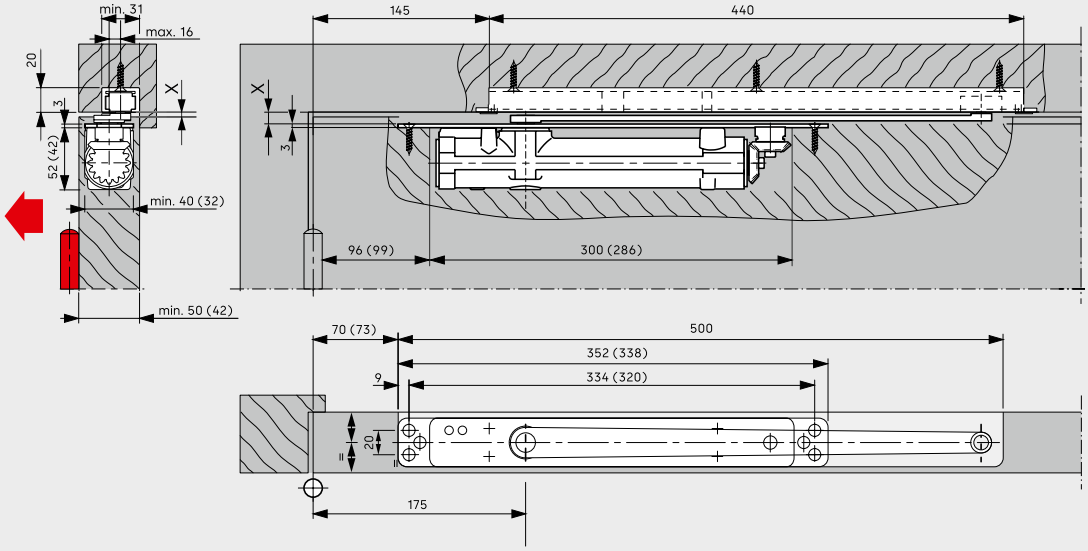
G 96 N installation examples

Examples: LH door, RH door mirror-inverted

Design ITS 96/ITS 96 BCA/ITS 96 FL:	**X** in mm
without spindle extension, with installation of K8/K12 slide channel	8.5/12
with 1.5 mm spindle extension, with installation of K8/K12 slide channel	10/13.5
with 4 mm spindle extension, with installation of K8/K12 slide channel	12.5/16
with 8 mm spindle extension, with installation of K8/K12 slide channel	16.5/20

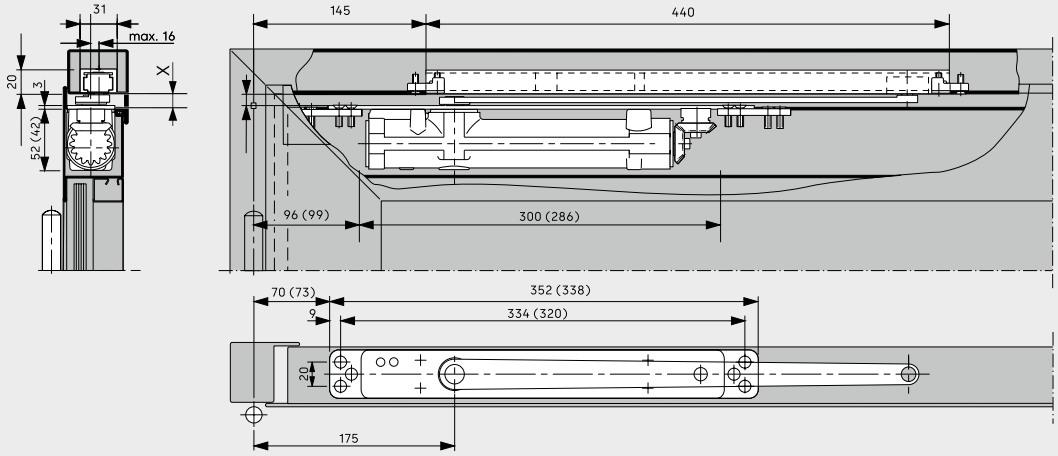
G 96 N slide channel with ITS 96 in a timber door

Illustration shows design EN 3-6
Dimensions in ( ) = design EN 2-4



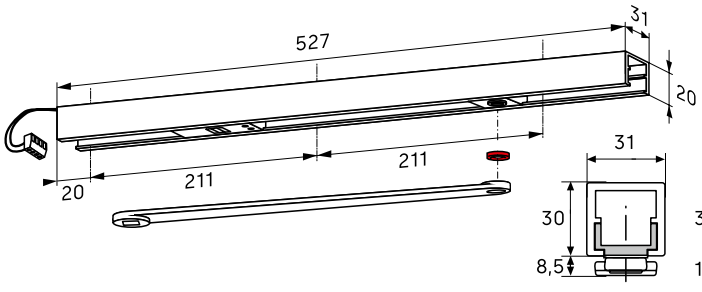
G 96 N slide channel with ITS 96 in a framed door

Illustration shows design EN 3-6
Dimensions in ( ) = design EN 2-4



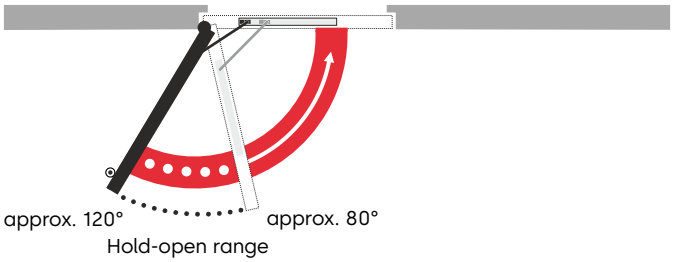
[1)] Add 25 mm for frame designs with corner-angle reinforcement.

G 96 EMF | Slide channel with electro-mechanical hold-open action



K8/K12 installation variant
K12 with spacer
K8 without spacer

The slide channel enables precise hold-open action of the door without fallback. The hold-open point can be set to an opening angle of approx. 80° and 120°. In the event of an alarm or power failure, the hold-open action is overridden and the door closer closes the door. Actuation is via external smoke detection control systems (e.g. RMZ). Thanks to the (tool-free) adjustable release force, the hold-open action can also be easily released by hand. For particularly large and heavy doors (exceeding 1,250 mm), we recommend the use of EM holding magnets to substitute the electro-mechanical hold-open.



The hold-open point equals the max. door opening angle. The hold-open unit does not substitute a door stopper.

Combination options
ITS 96, ITS 96 BCA, ITS 96 FL door closers

Scope of delivery
G 96 EMF slide channel, arm, slide block, spacer for K12 installation variant (rebate clearance 12), fixing screws and end caps.

Designs
- LH or RH
- Punched cranked arm in various colours or silver forged arm

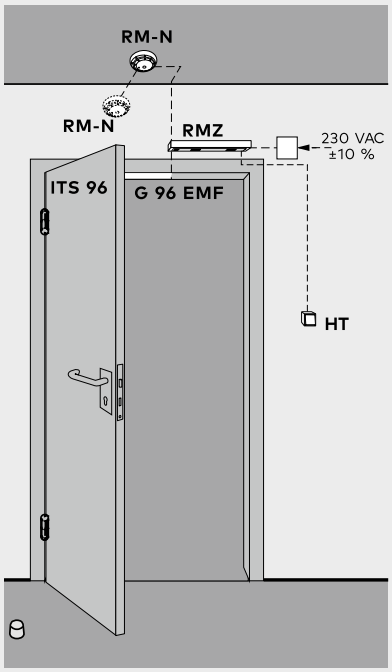
Accessory options
- Fixing elements for sectional frame doors (see page 40)

F Evidence of suitability
The ITS 96 EMF has been tested by the Materials Testing Office NRW in Dortmund to EN 1155 to be used on fire and smoke doors.
Evidence of suitability of the fire and smoke door to be used with the ITS 96 is also required.

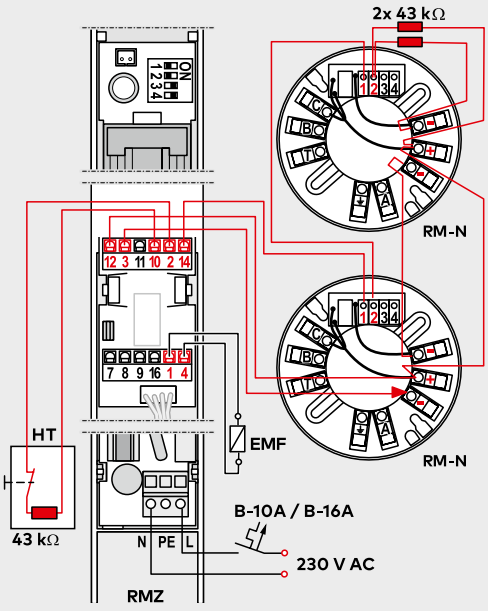
Technical data

Operating voltage/power input	24 V DC ± 15 %/1.4 W
Duty rating	100 % ED
Release torque	Adjustable

Application example hold-open system

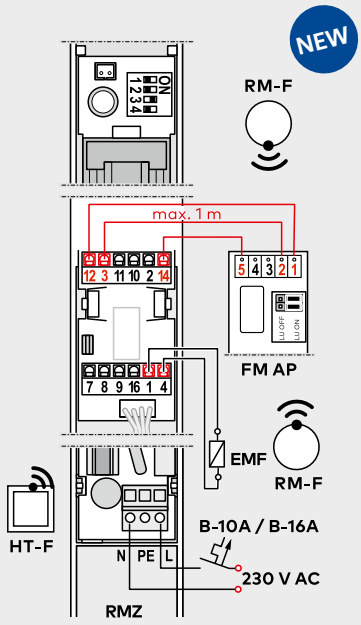


RMZ with RM-N



Recommended cabling
230 V AC NYM 3 x 1.5 mm² (max.)
24 V DC J - Y (St) Y 2 x 2 x 0.6 mm²/0.8 mm²

RMZ with FM AP/RM-F radio module



Recommended cabling
230 V AC NYM 3 x 1.5 mm² (max.)
24 V DC 0.6 mm²/0.8 mm²

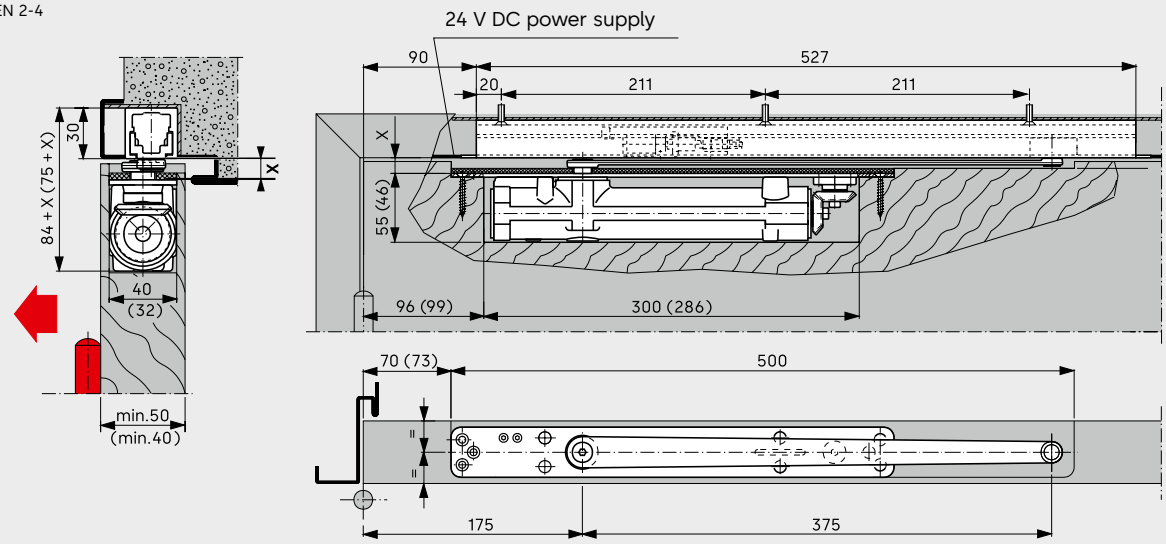
G 96 EMF installation examples

Examples: LH door, RH door mirror-inverted

Design ITS 96/ITS 96 BCA/ITS 96 FL:	**X** in mm
without spindle extension, with installation of K8/K12 slide channel	8.5/12
with 1.5 mm spindle extension, with installation of K8/K12 slide channel	10/13.5
with 4 mm spindle extension, with installation of K8/K12 slide channel	12.5/16
with 8 mm spindle extension, with installation of K8/K12 slide channel	16.5/20

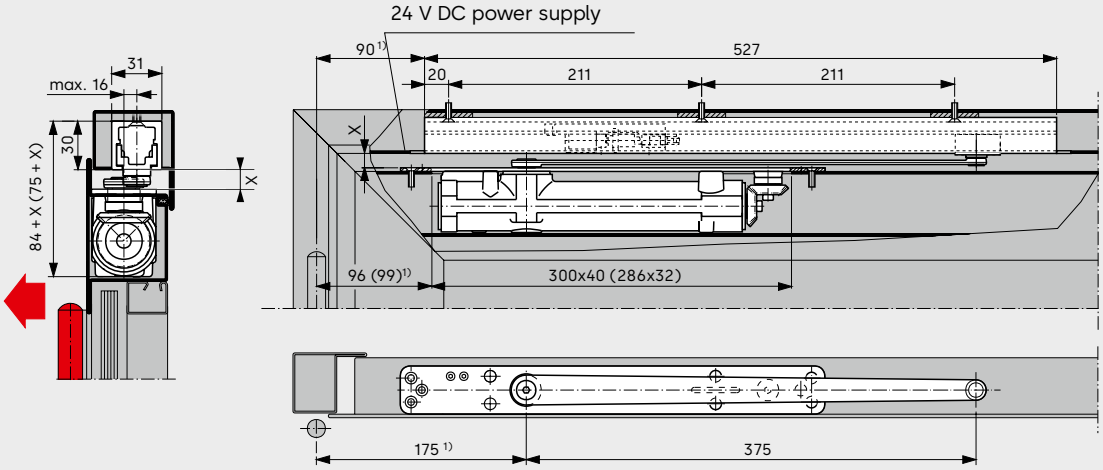
G 96 EMF slide channel with ITS 96 in a timber door

Illustration shows design EN 3-6
Dimensions in ( ) = design EN 2-4



G 96 EMF slide channel with ITS 96 in a framed door

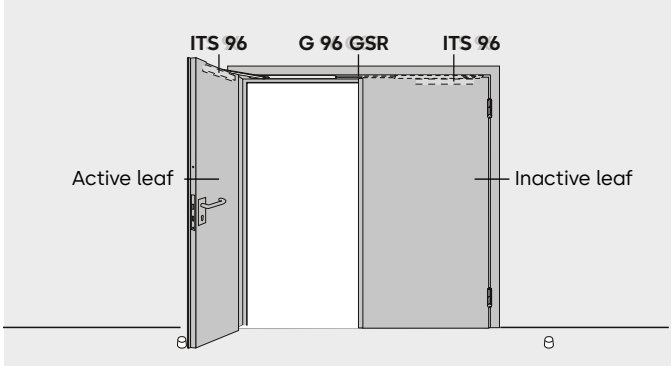
Illustration shows design EN 3-6
Dimensions in ( ) = design EN 2-4



1) Add 25 mm for frame designs with corner-angle reinforcement.

G 96 GSR slide channels
Solution for 2-leaf doors

An ITS 96 system for double-leaf doors can be assembled as required of two ITS 96 door closers and the GSR slide channel with door coordinator. The range of functions is determined by the selected components. Different ITS 96 door closers can be used for inactive and active leaf.

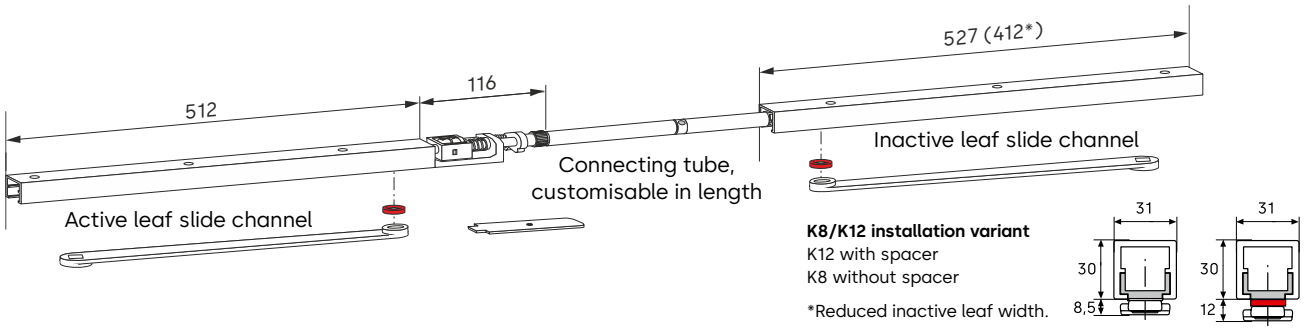


Possible 2-leaf door dimensions	with ITS 96 EN 2-4	with ITS 96 EN 3-6 ITS 96 BCA, ITS 96 FL
G 96 GSR slide channel		
Door width	1,450 to 2,200 mm	1,450 to 2,800 mm
Active leaf width*	750 to 1,100 mm	750 to 1,400 mm
Inactive leaf width	700 to 1,100 mm	700 to 1,400 mm
G 96 GSR EMF 1 slide channel		
Door width	1,450 to 2,200 mm	1,450 to 2,650 mm
Active leaf width*	750 to 1,100 mm	750 to 1,400 mm
Inactive leaf width	700 to 1,100 mm	700 to 1,250 mm
G 96 GSR EMF 2 slide channel		
Door width	1,450 to 2,200 mm	1,450 to 2,500 mm
Active leaf width*	750 to 1,100 mm	750 to 1,250 mm
Inactive leaf width	700 to 1,100 mm	700 to 1,250 mm

Special design with narrow inactive leaf		
Minimum door width	1,290 mm	1,290 mm
Minimum reduced active leaf width	540 mm	540 mm

*When using the optional connecting frame for electric keep/lock in the top door frame, the maximum active leaf width is 1,200 mm.

G 96 GSR | Slide channel with door coordinator and cushioned limit stay



The GSR slide channel door coordinator ensures that the active leaf on 2-leaf doors always closes after the inactive leaf. The push rod clamping can be customised in length. This system works independently of the door closer hydraulics and thus ensures maximum safety and reliability. An overload release protects the door coordinator and the door construction from damage.

Combination options

Active leaf	IITS 96, ITS 96 BCA, ITS 96 FL
Inactive leaf	ITS 96, ITS 96 BCA

When using the ITS 96 FL on the active leaf, the free-swing function is activated from a door opening angle > 0° when the door is opened. The door can still move freely.

Scope of delivery

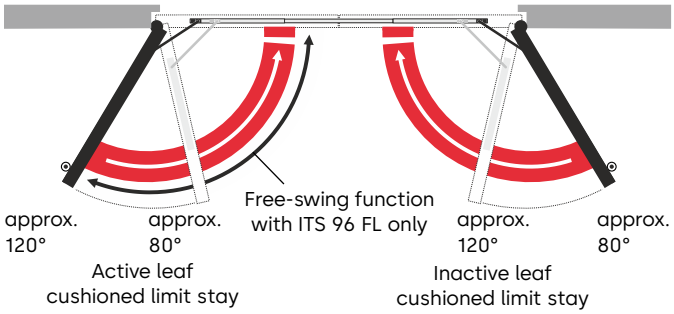
Two slide channels with cushioned limit stay, push rod, slide blocks, spacers for K12 installation variant, fixing screws, end pieces, cover for coordinator mechanism and arms.

Designs

- Standard inactive leaf width > 700 mm or narrow inactive leaf width 540 to 700 mm
- Punched cranked arm in various colours or silver forged arm

Accessory options

- Hold-open unit for G 96 GSR
- Connecting frame for door systems with top door lock or electric keep (see page 41)
- Fixing elements for sectional frame doors (see page 40)



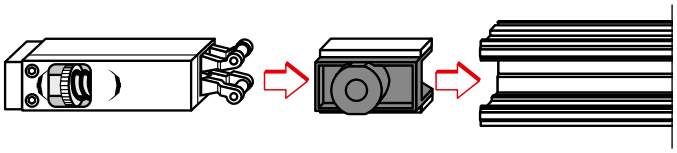
The cushioned limit stay is no overload release and in many cases does not substitute a door stopper.

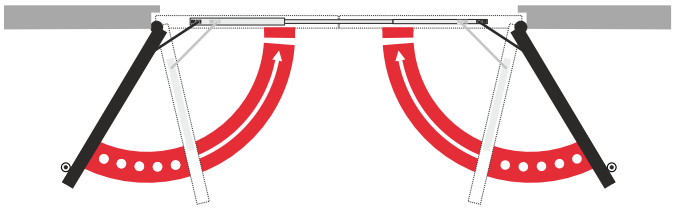
F Evidence of suitability

The ITS 96 GSR has been tested by the Materials Testing Office NRW in Dortmund to EN 1158 to be used on fire and smoke doors. Evidence of suitability of the fire and smoke door to be used with the ITS 96 is also required.

Note

RF hold-open unit for G 96 GSR





The hold-open unit enables precise hold-open action for the door. The release force can be customised to the respective door situation. The hold-open unit is only installed on the inactive leaf and is designed for retrofitting to the slide channel.

F Note

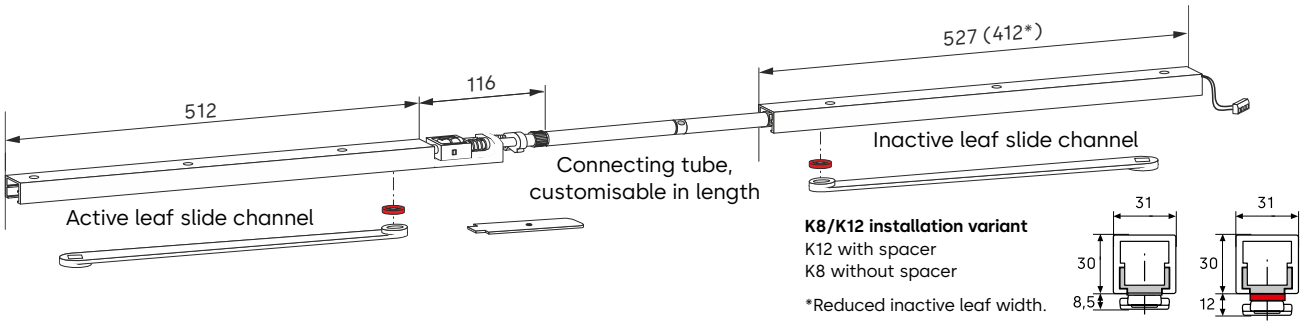
RF hold-open unit is not authorised for fire and smoke doors.

Hold-open range

The hold-open range can be set anywhere in the door opening range. The hold-open point limits the maximum opening angle.

The hold-open unit does not substitute a door stopper.

G 96 GSR EMF-1 | Slide channel with door coordinator and electro-mechanical hold-open in the inactive leaf



The G 96 GSR EMF-1 slide channel door coordinator enables hold-open of both door leaves with the hold-open unit on the inactive leaf. The hold-open point is between approx. 80° and 120°. In the event of an alarm or power failure, the hold-open action is overridden and the door closer closes the door. Actuation is via the external RMZ smoke detection control system. Thanks to the (tool-free) adjustable release force, the hold-open action can also be easily released by hand. For particularly large and heavy doors (exceeding 2,500 mm), we recommend the use of EM holding magnets to substitute the electro-mechanical hold-open.

Combination options

Active leaf	ITS 96, ITS 96 BCA, ITS 96 FL
Inactive leaf	ITS 96, ITS 96 BCA

Scope of delivery

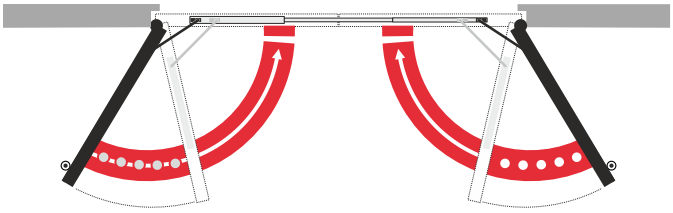
Active leaf slide channel with cushioned limit stay and inactive leaf slide channel with electro-mechanical hold-open, push rod, slide blocks, spacers for K12 installation variant, fixing screws, end pieces, cover for coordinator mechanism and arms.

Designs

- Standard inactive leaf width > 700 mm or narrow inactive leaf width 540 to 700 mm
- Punched cranked arm in various colours or silver forged arms

Accessory options

- Connecting frame for door systems with top door lock or electric keep (see page 41)
- Fixing elements for sectional frame doors (see page 40)



Note

The active leaf can only be held open in parallel with the inactive leaf. The hold-open point of the inactive leaf also corresponds to it maximum door opening angle and limits the maximum opening angle. The cushioned limit stay is no overload release and does not substitute a door stopper.

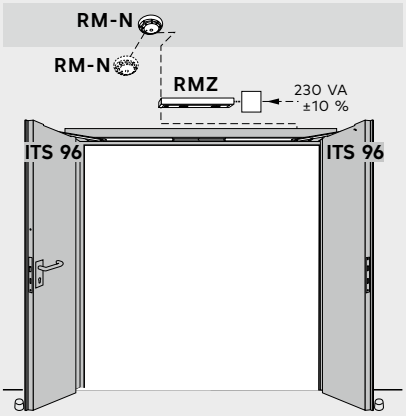
F Evidence of suitability

The ITS 96 GSR EMF has been tested by the Materials Testing Office NRW in Dortmund to EN 1158 and EN 1155 to be used on fire and smoke doors. Evidence of suitability of the fire and smoke door to be used with the ITS 96 is also required.

Technical data

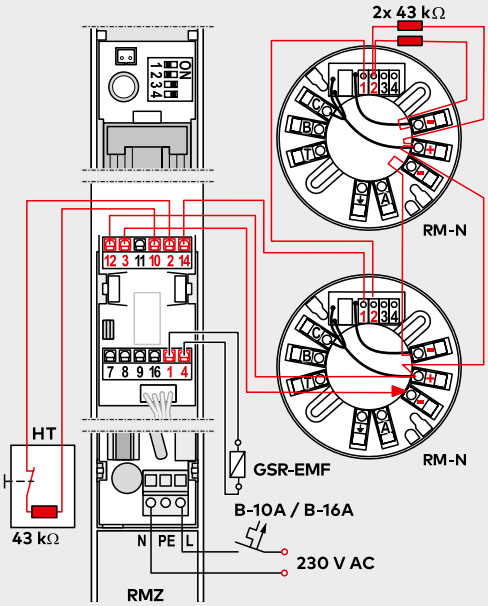
Operating voltage/power input	24 V DC, ± 15 %/1.4 W
Duty rating	100 % ED
Release torque	Adjustable

Application example hold-open system



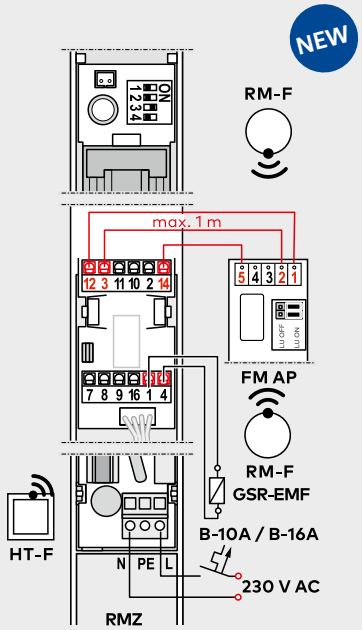
RM-N Smoke detector
RMZ Smoke detection control
HT Manual switch

RMZ with RM-N



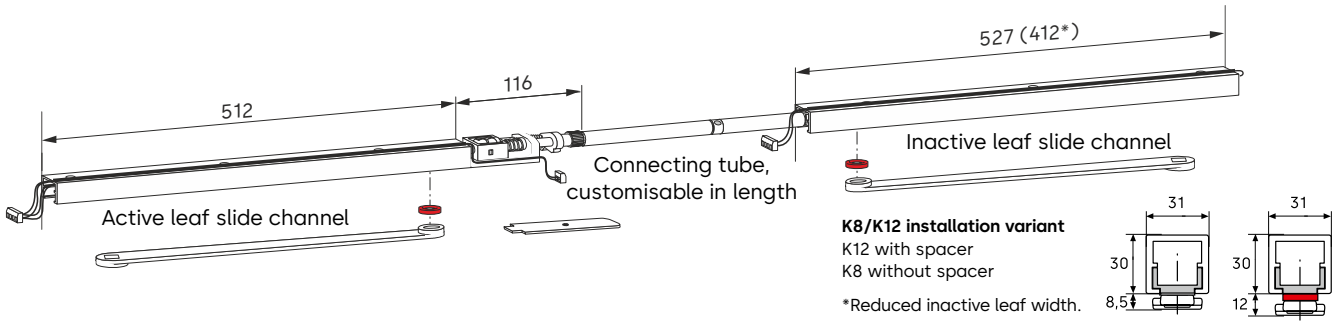
Recommended cabling
230 V AC NYM 3 x 1.5 mm² (max.)
24 V DC J - Y (St) Y 2 x 2 x 0.6 mm²/0.8 mm²

RMZ with FM AP/RM-F radio module



Recommended cabling
230 V AC NYM 3 x 1.5 mm² (max.)
24 V DC 0.6 mm²/0.8 mm²

G 96 GSR EMF-2 | Slide channel with door coordinator and electro-mechanical hold-open action in the inactive and active leaf



The G 96 GSR EMF-2 slide channel door coordinator also enables individual door leaf hold-open via an electro-mechanical hold-open unit. The hold-open points for both leaves are between approx. 80° and 120°. In the event of an alarm or power failure, the hold-open action is overridden and the door closer closes the door.
Actuation is via the external RMZ smoke detection control system. Thanks to the (tool-free) adjustable release force, the hold-open action can also be easily released by hand.
For particularly large and heavy doors (exceeding 2,500 mm), we recommend the use of EM holding magnets to substitute the electro-mechanical hold-open.

Combination options

Active leaf	ITS 96, ITS 96 BCA, ITS 96 FL
Inactive leaf	ITS 96, ITS 96 BCA

Scope of delivery

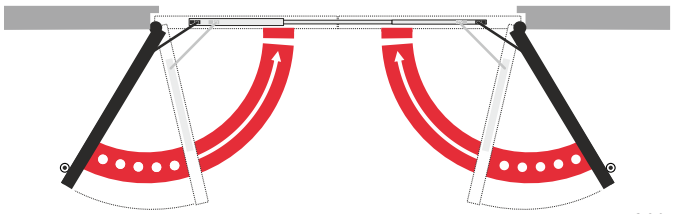
Two slide channels with electro-mechanical hold-open, push rod, slide blocks, spacers for K12 installation variant, fixing screws, end pieces, cover for coordinator mechanism and arms.

Designs

- Standard inactive leaf width > 700 mm or narrow inactive leaf width 540 to 700 mm
- Punched cranked arm in various colours or silver forged arm

Accessory options

- Connecting frame for door systems with top door lock or electric keep (see page 41)
- Fixing elements for sectional frame doors (see page 40)



Note

The active leaf can be held open independently of the passive leaf. The hold-open points equal the max. door opening angle. The hold-open points do not substitute a door stopper.

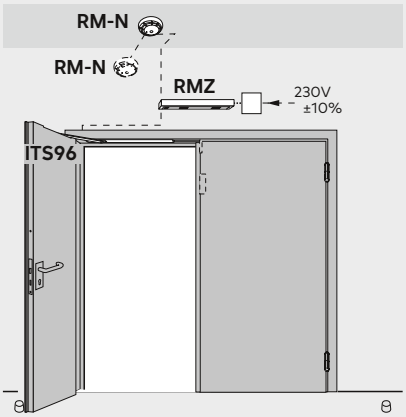
F Evidence of suitability

The ITS 96 GSR EMF has been tested by the Materials Testing Office NRW in Dortmund to EN 1158 and EN 1155 to be used on fire and smoke doors. Evidence of suitability of the fire and smoke door to be used with the ITS 96 is also required.

Technical data

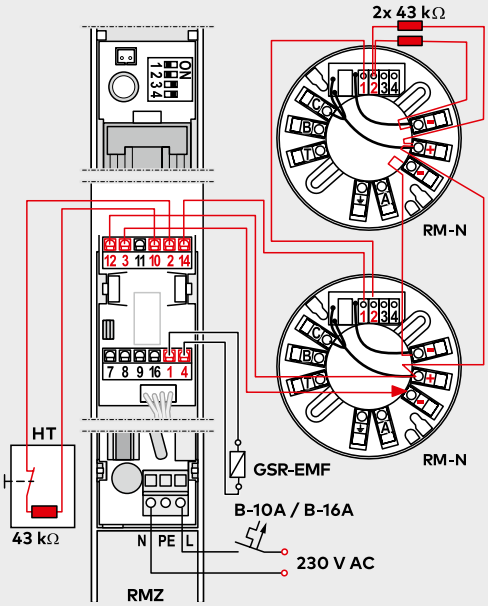
Operating voltage/power input	24 V DC, ± 15 %/2.8 W
Duty rating	100 % ED
Release torque	Adjustable

Application example hold-open system



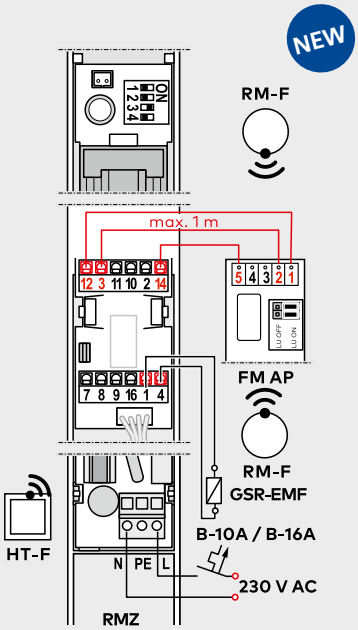
RM-N Smoke detector
RMZ Smoke detection control
HT Manual switch

RMZ with RM-N



Recommended cabling
230 V AC NYM 3 x 1.5 mm² (max.)
24 V DC J - Y (St) Y 2 x 2 x 0.6 mm²/0.8 mm²

RMZ with FM AP/RM-F radio module



Recommended cabling
230 V AC NYM 3 x 1.5 mm² (max.)
24 V DC 0.6 mm²/0.8 mm²

G 96 GSR/GSR EMF-1/GSR EMF-2 installation examples in a timber door

Example: Active leaf LH door, active leaf RH door mirror-inverted

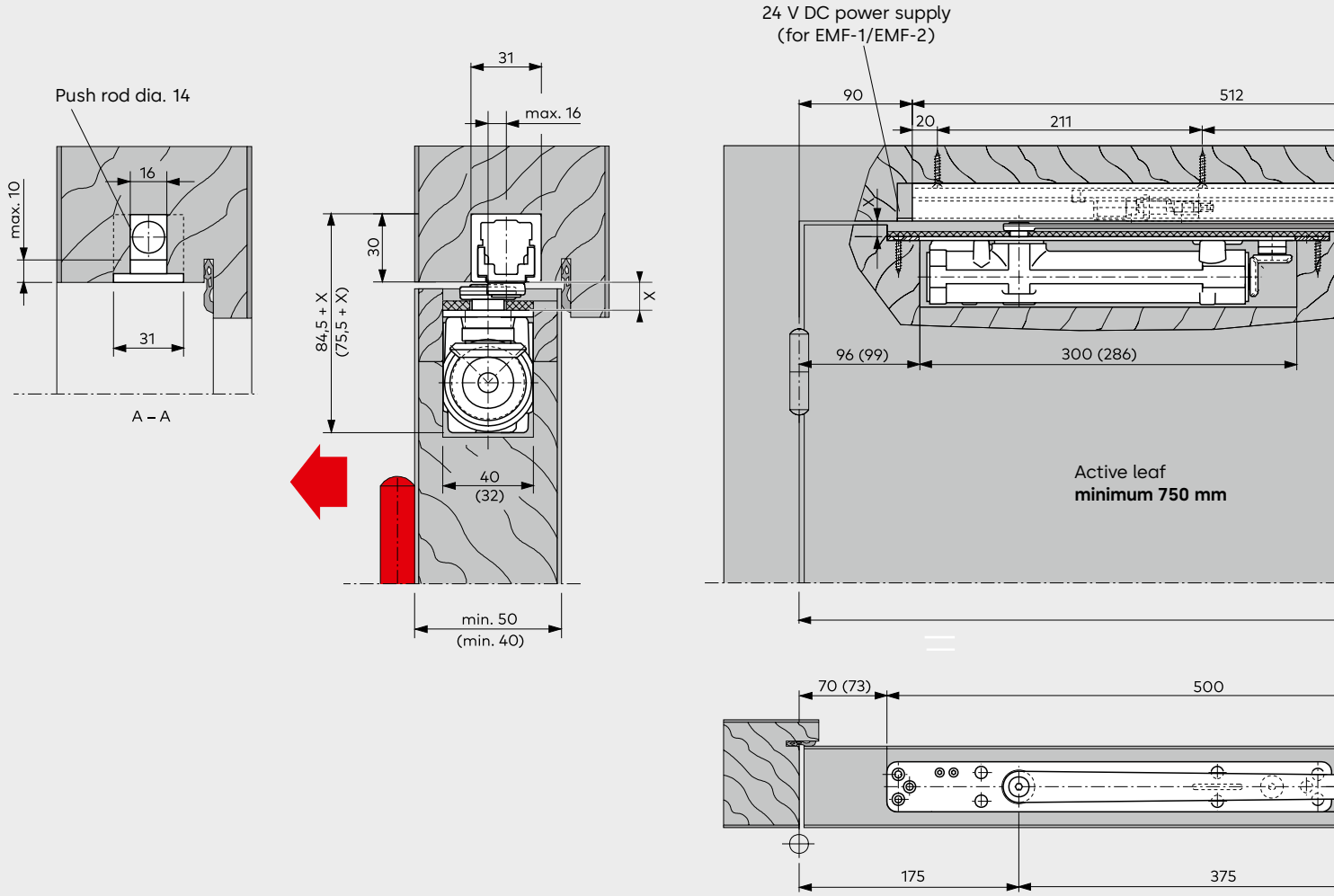
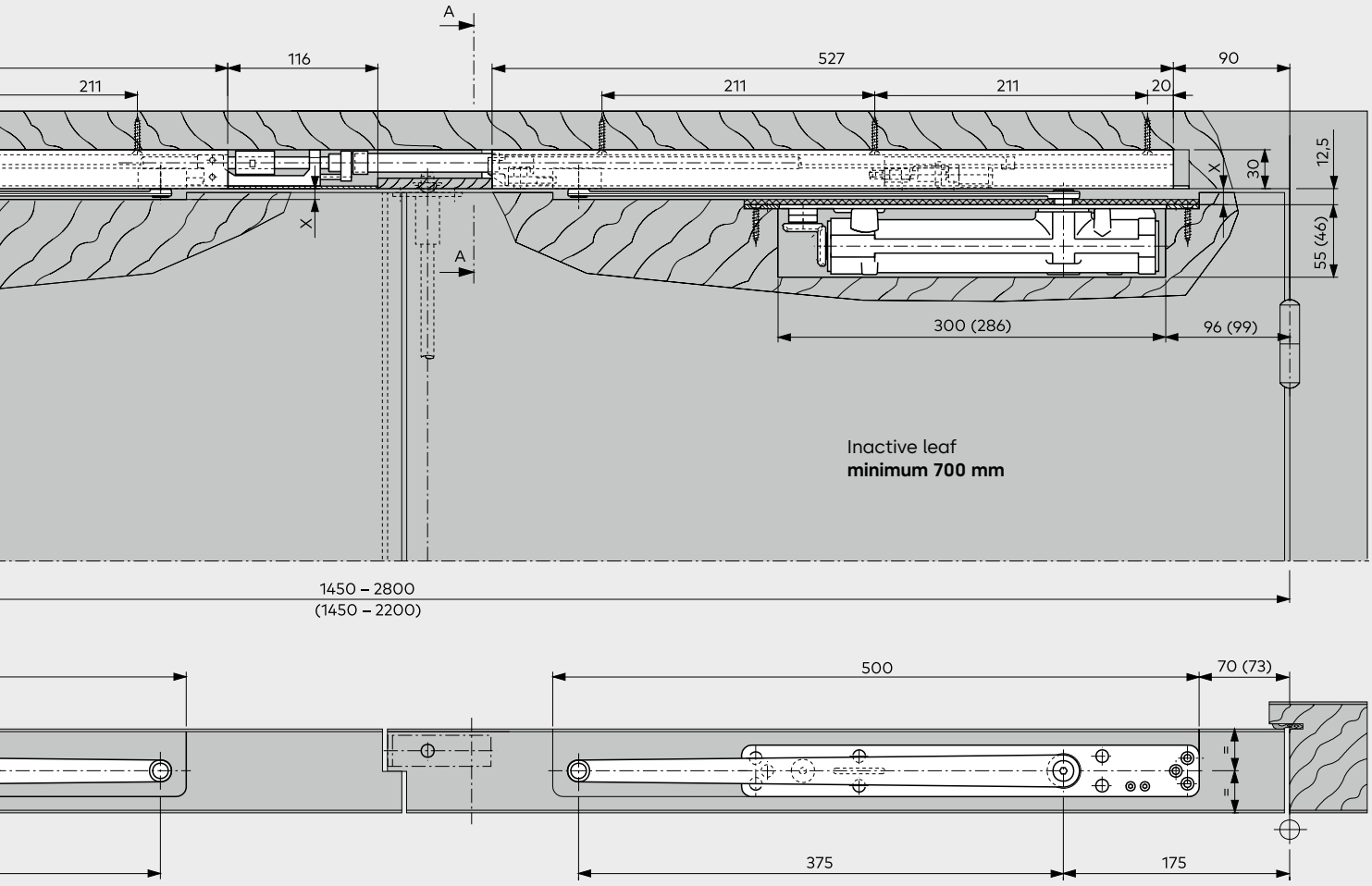


Illustration ITS 96 3-6, ITS BCA
( )-Dimensions = ITS 96 2-4

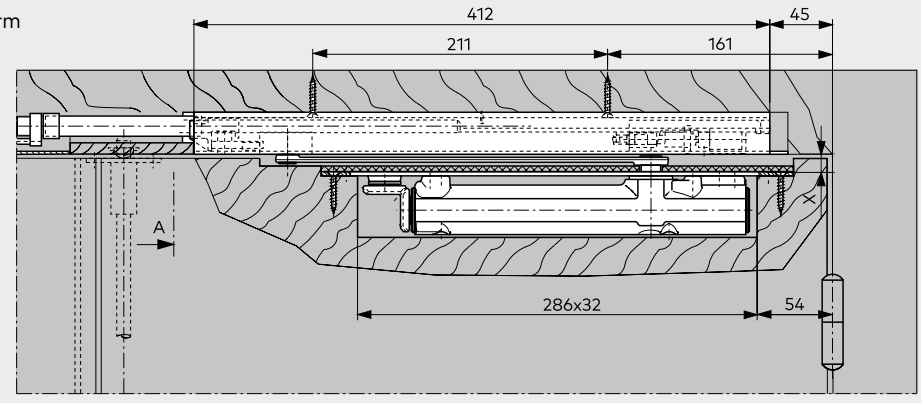
F For installation in fire and smoke doors, use the MK 397 carry bar.

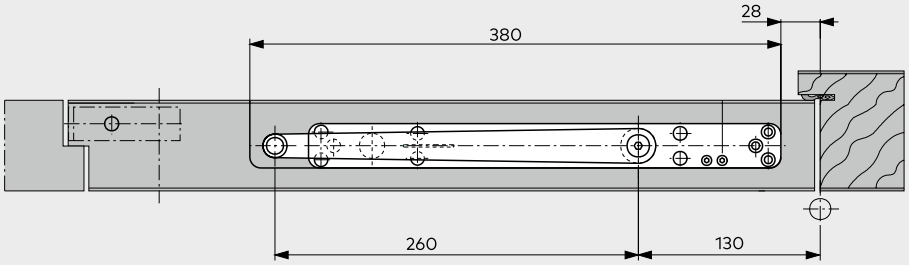
Design ITS 96 2-4, ITS 96 EN 3-6, ITS BCA:	**X** in mm
without spindle extension, with installation of K8/K12 slide channel	8.5/12
with 1.5 mm spindle extension, with installation of K8/K12 slide channel	10/13.5
with 4 mm spindle extension, with installation of K8/K12 slide channel	12.5/16
with 8 mm spindle extension, with installation of K8/K12 slide channel	16.5/20



Narrow inactive leaf width version

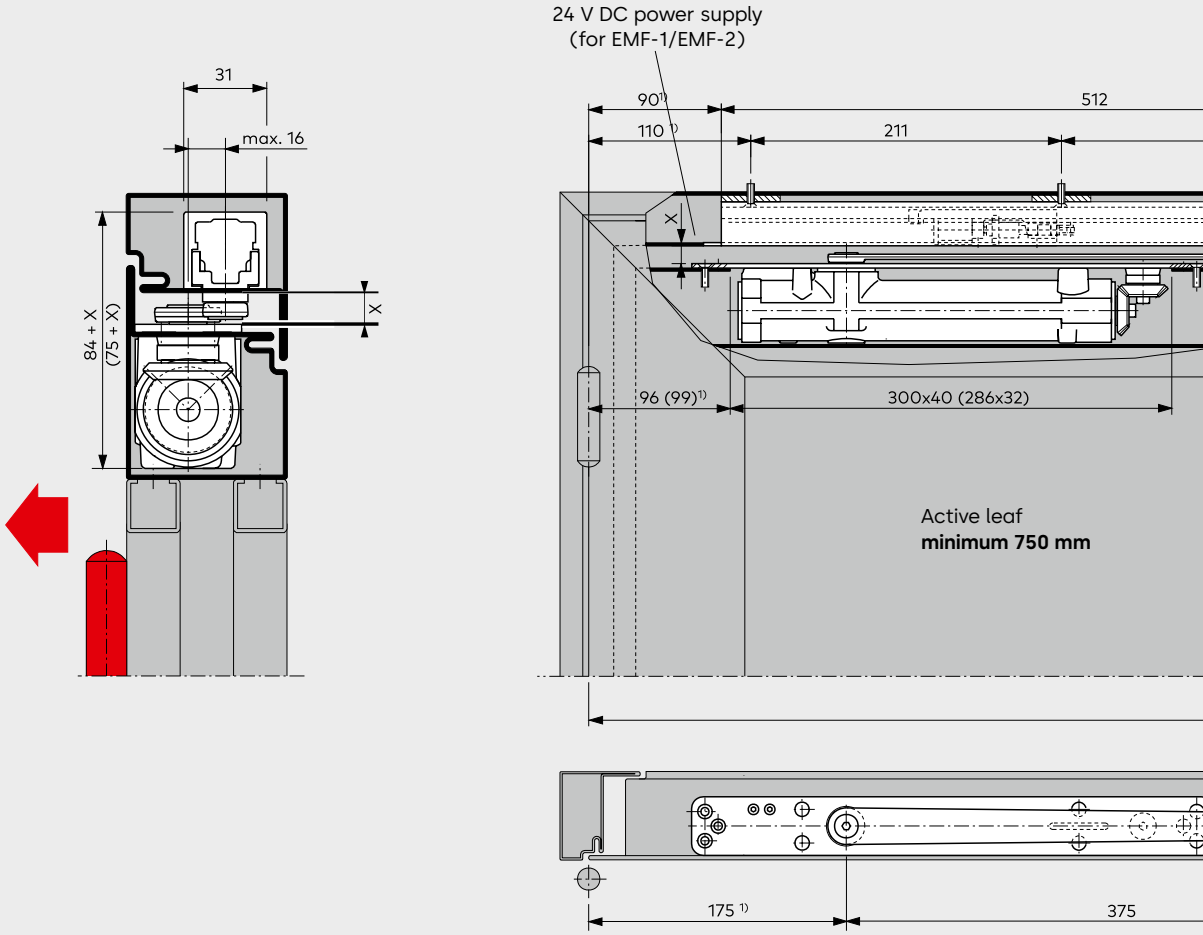
Reduced inactive leaf slide channel, 260 mm arm
Inactive leaf 540 to 700 mm
Active leaf minimum 750 mm



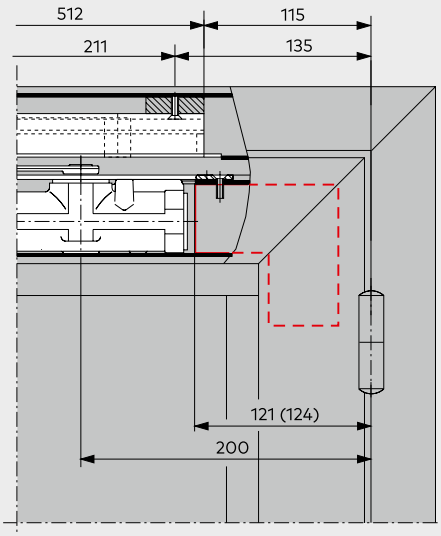


G 96 GSR/GSR EMF-1/GSR EMF-2 installation examples in a framed door

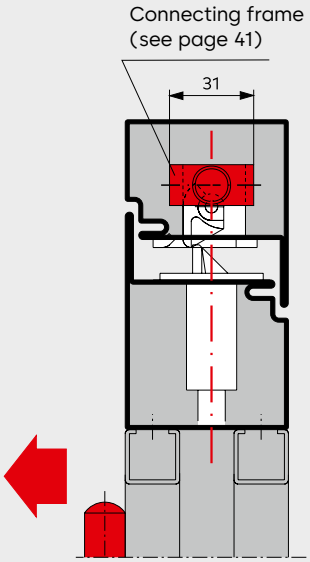
Example: Active leaf LH door, active leaf RH door mirror-inverted



Frame designs with corner-angle reinforcement



Combination with electric keep/lock



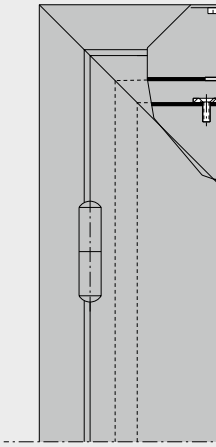
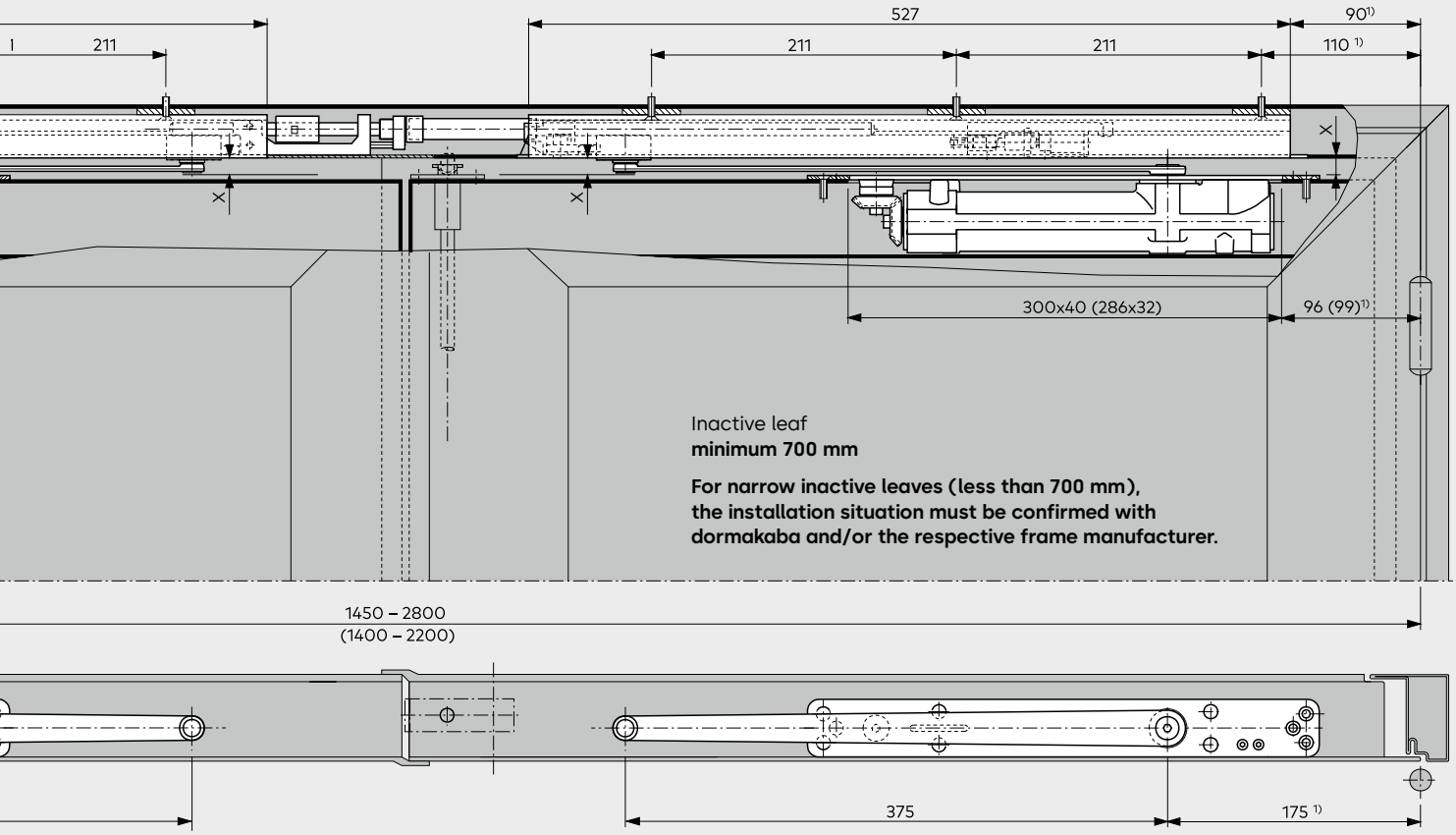


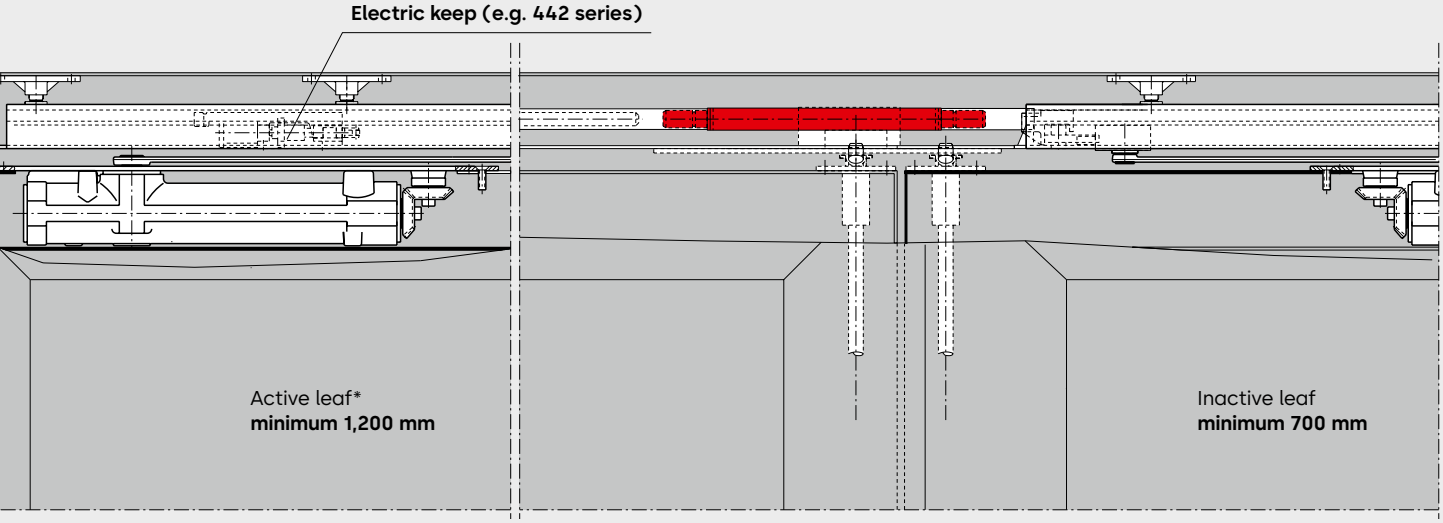
Illustration ITS 96 3-6, ITS BCA
( )-Dimensions = ITS 96 2-4

F For installation in fire and smoke doors, use the MK 397 carry bar.

Design ITS 96 2-4, ITS 96 EN 3-6, ITS BCA:	**X** in mm
without spindle extension, with installation of K8/K12 slide channel	8.5/12
with 1.5 mm spindle extension, with installation of K8/K12 slide channel	10/13.5
with 4 mm spindle extension, with installation of K8/K12 slide channel	12.5/16
with 8 mm spindle extension, with installation of K8/K12 slide channel	16.5/20

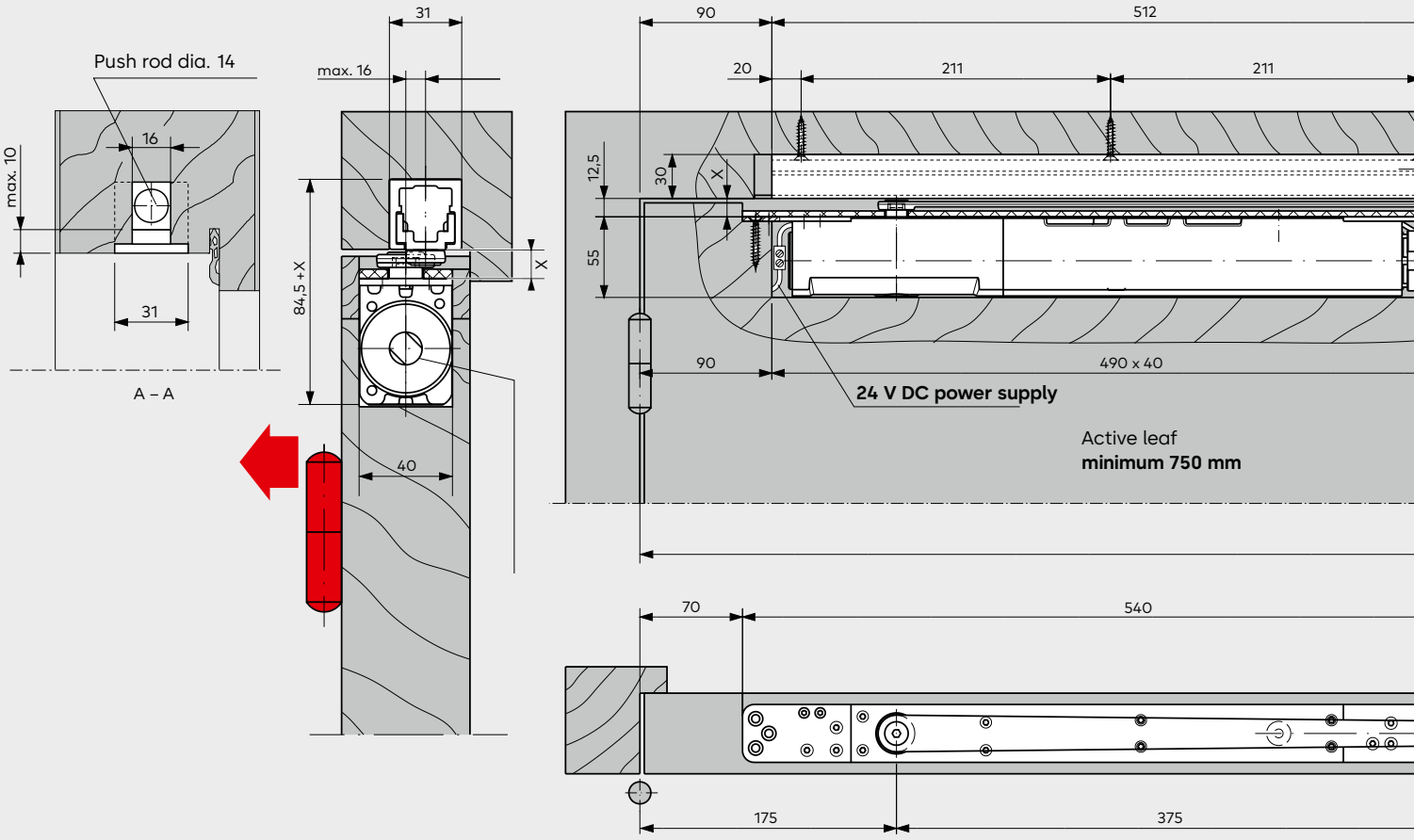

1
211
527
211
211
90 1)
110 1)
300x40 (286x32)
96 (99) 1)
Inactive leaf
minimum 700 mm
For narrow inactive leaves (less than 700 mm),
the installation situation must be confirmed with
dormakaba and/or the respective frame manufacturer.

1450 – 2800
(1400 – 2200)
375
175 1)


Electric keep (e.g. 442 series)
Active leaf*
minimum 1,200 mm
Inactive leaf
minimum 700 mm

G 96 GSR installation examples with ITS 96 FL in timber door

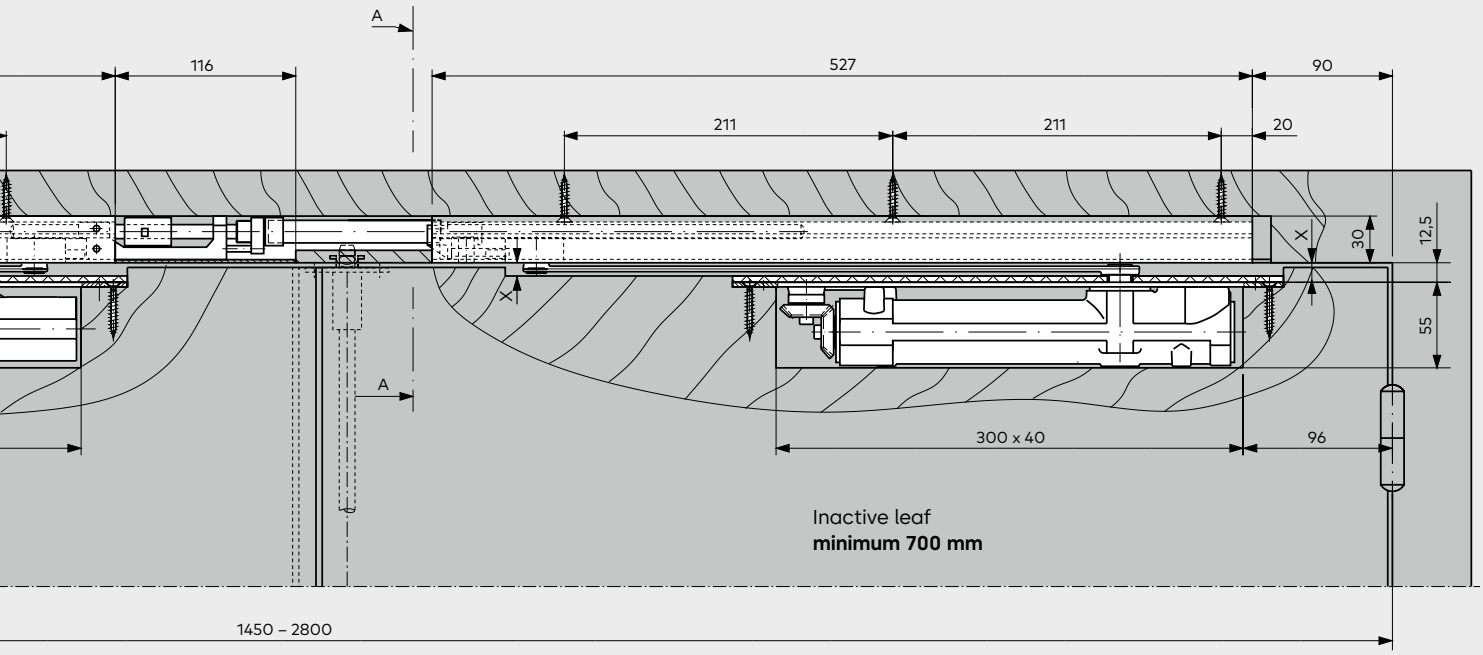
Example: Active leaf LH door, active leaf RH door mirror-inverted

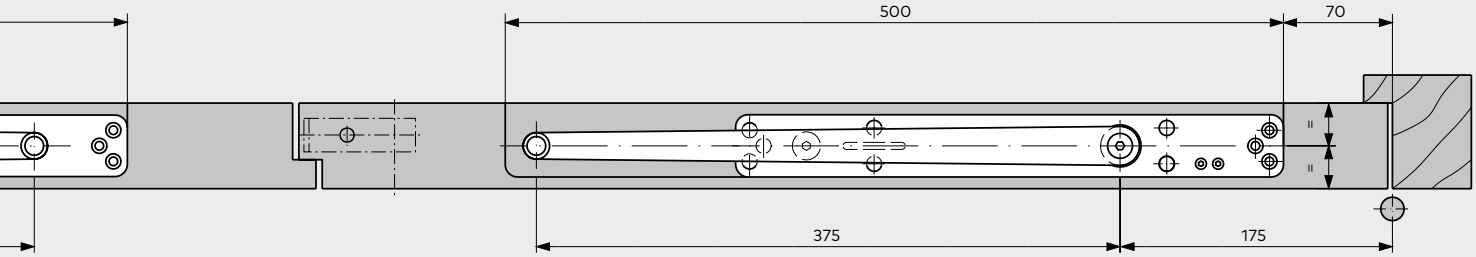


IllustrationITS 96 3-6, ITS BCA
( )-Dimensions = ITS 96 2-4

F For installation in fire and smoke doors, use the MK 397 carry bar.

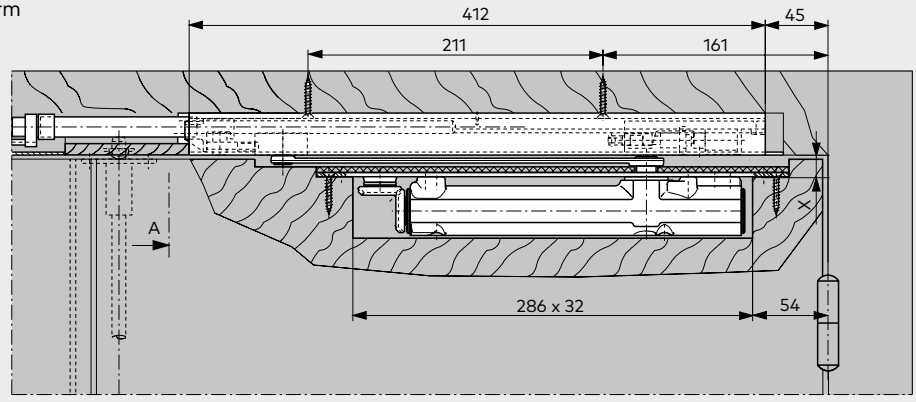
Design ITS 96 2-4, ITS 96 EN 3-6, ITS BCA:	**X** in mm
without spindle extension, with installation of K8/K12 slide channel	8.5/12
with 1.5 mm spindle extension, with installation of K8/K12 slide channel	10/13.5
with 4 mm spindle extension, with installation of K8/K12 slide channel	12.5/16
with 8 mm spindle extension, with installation of K8/K12 slide channel	16.5/20

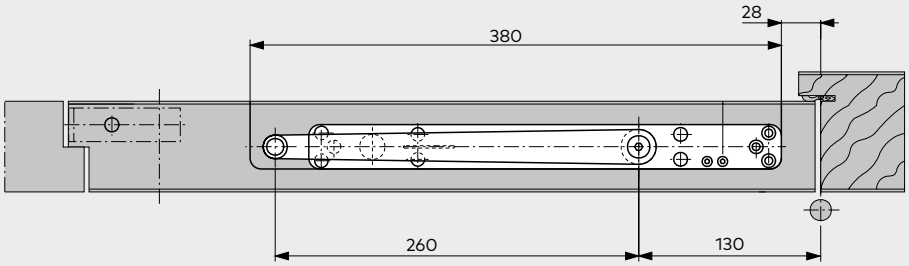




Narrow inactive leaf width version

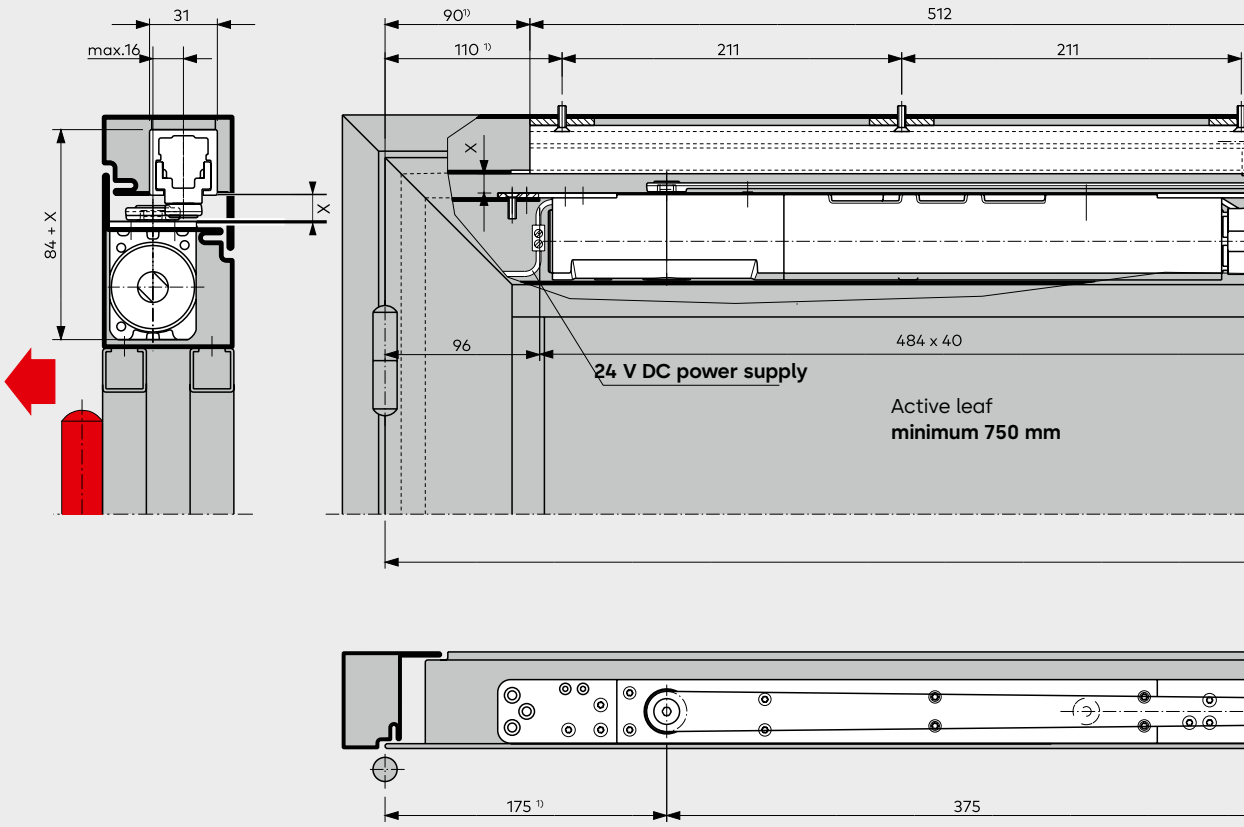
Reduced inactive leaf slide channel, 260 mm arm
Inactive leaf 540 to 700 mm
Active leaf minimum 750 mm



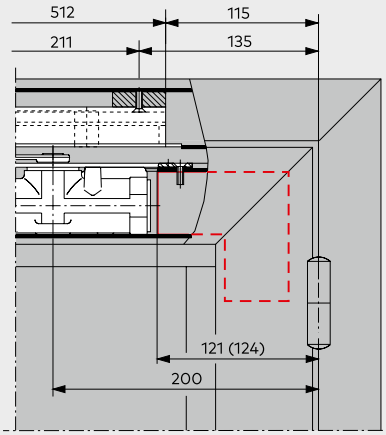


G 96 GSR installation examples with ITS 96 FL in framed door

Example: Active leaf LH door, active leaf RH door mirror-inverted



Frame designs with corner-angle reinforcement



Combination with electric keep/lock

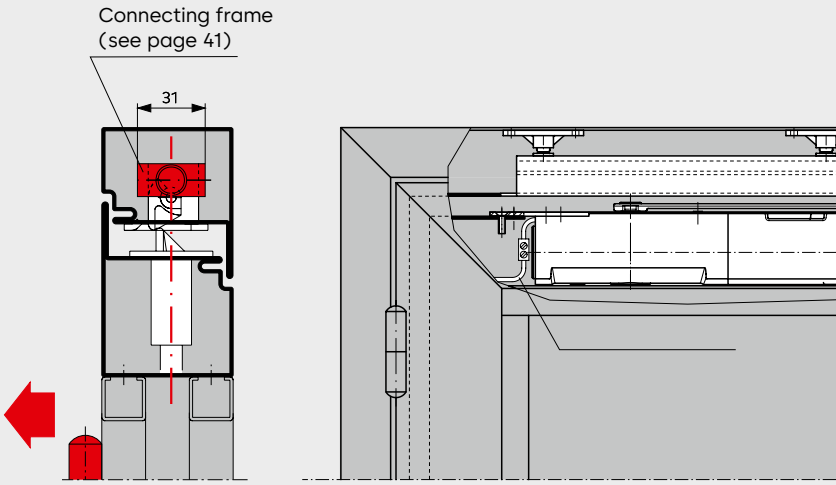
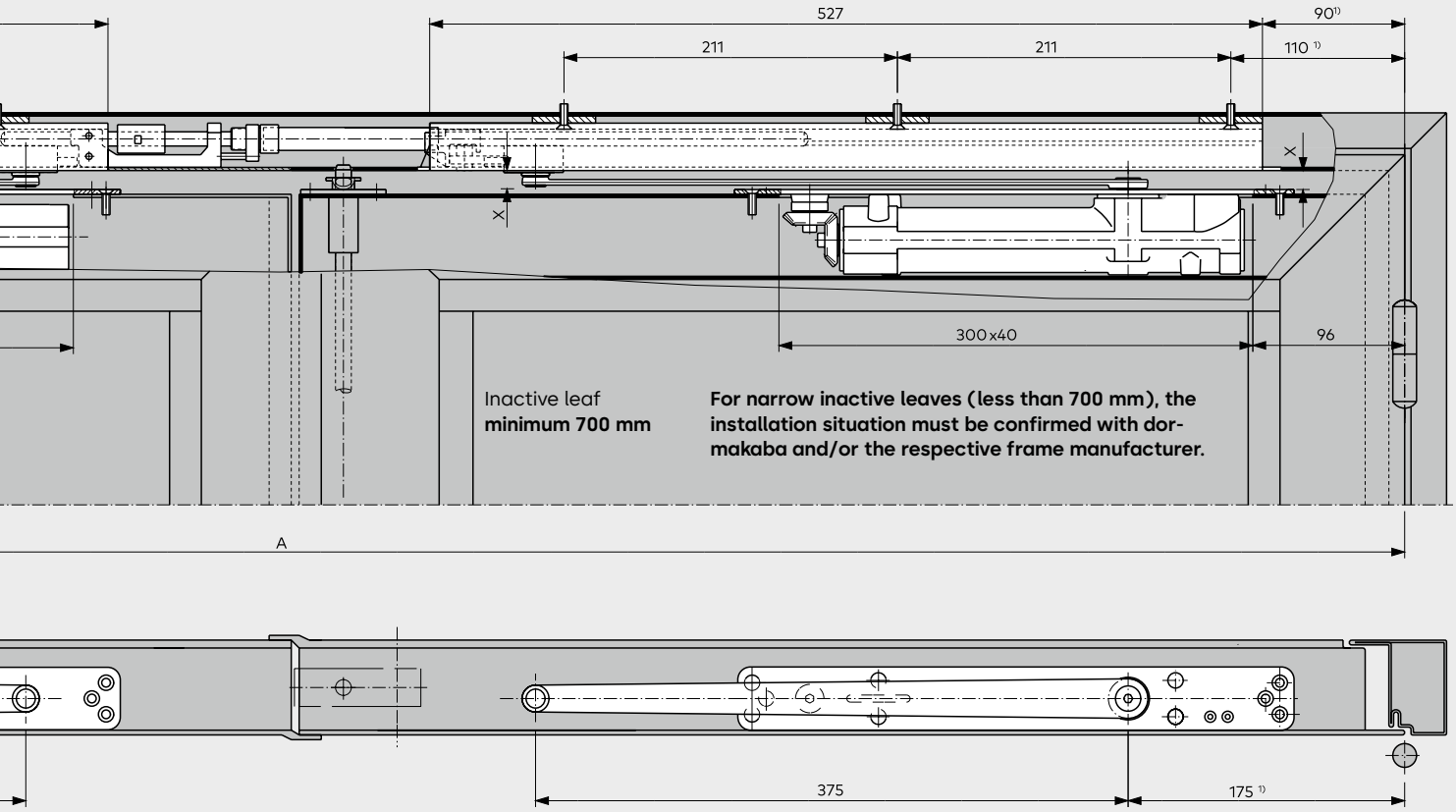


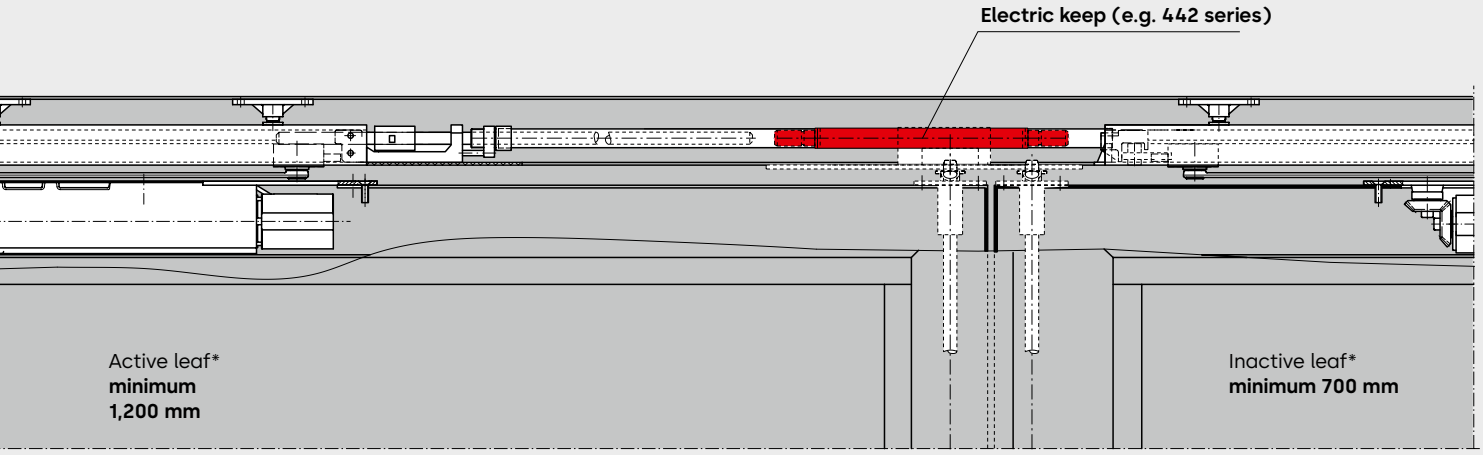
Illustration ITS 96 3-6, ITS BCA
( )-Dimensions = ITS 96 2-4

F For installation in fire and smoke doors, use the MK 397 carry bar.

Design ITS 96 2-4, ITS 96 EN 3-6, ITS BCA:	**X** in mm
without spindle extension, with installation of K8/K12 slide channel	8.5/12
with 1.5 mm spindle extension, with installation of K8/K12 slide channel	10/13.5
with 4 mm spindle extension, with installation of K8/K12 slide channel	12.5/16
with 8 mm spindle extension, with installation of K8/K12 slide channel	16.5/20


527
90 1)
211
211
110 1)
300 x 40
96
Inactive leaf
minimum 700 mm
For narrow inactive leaves (less than 700 mm), the installation situation must be confirmed with dormakaba and/or the respective frame manufacturer.
A

375
175 1)


Electric keep (e.g. 442 series)
Active leaf*
minimum
1,200 mm
Inactive leaf*
minimum 700 mm

Smoke detection control panel RMZ, Smoke detector RM, Smoke detector RM-N, Radio smoke detector RM-F with radio module FM AP

NEW

The smoke detection control panel RMZ and RM-N smoke detectors provide the ideal complement to the ITS 96 system for passive/preventive fire protection. They are designed in accordance with the latest codes issued by the German Institute for Building Technology and ensure perfect interaction between all the devices employed for holding open fire and smoke check doors – whatever the situation. As alternative to RM-N smoke detectors, RM-F radio smoke detectors can be connected to the smoke detection control unit via the FM-AP radio module.

Data and features		RMZ	RM-N	FM-AP	RM-F
Functions	Smoke detector	●	●	–	●
	Release device	●	–	–	–
	Power supply unit	●	–	–	–
Smoke detection	Scattered light principle (optical sensor)	●	●	–	●
Fixing	Lintel or transom-mounted	●	–	●	–
	Ceiling-mounted	–	●	–	●
Connection of other detectors		●	–	●	–
Total installed load (max.) for hold-open device and other detectors in W		9,8	–	9,8	–
Power consumption of internal detectors in W		1,2	0,65	1,2	0,65
LED indicators	Alarm	●	●	●	●
	Standby	●	–	●	●
	Maintenance due	●	–	●	●
	Contaminated	●	–	–	●
Input voltage		230 V AC ± 10 %	24 V DC +15 %, –10 %	18–28 V DC	–
Output voltage		24 V DC	–	–	–
Detector operating voltage		24 V DC +15 %, –10 %	24 V DC	18–28 V DC	3 V DC
Input current (max.) in mA		75	20	13	–
Floating (no-volt) change-over contact Safety extra low voltage (SELV)		24 V AC/DC 2 A	30 V AC/DC 1 A	24 V AC/DC 1 A	–
Reset	Automatic	●	●	●	●
	Can be changed to manual reset1)	●	–	–	–
Functional check	Smoke detection	●	●	–	●
Connection terminals for external manual release		●	–	–	–
Degree of protection		IP 30	IP 43	IP 40	IP 42
Ambient temperature in °C		–20, +40	–10, +60	-30, 70	-30, 70
Weight in kg		0,25	0,15	0,065	0,168
Dimensions in mm	Length	379	ø 100	148,2	ø 80
	Overall depth	34		30,4	
	Height	30	44	28,6	70
Compliant with EN 54 Part 7		●	●	●	●
CE mark for building products		●	●	●	●

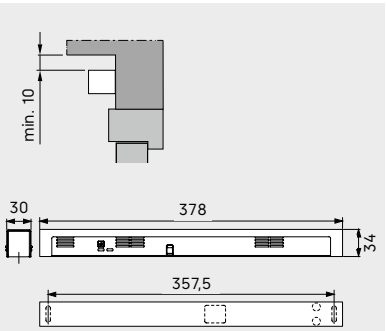
● Yes – No

[1] Required in connection with the free-swing door closers ITS 96 FL.

F Approval certification

The smoke detection control panel RMZ in the Contur design and RM-N smoke detector have been granted general building approval by the German Institute for Building Technology, Berlin; acceptance inspection mandatory in Germany.

Note: If the distance D from the bottom edge of the lintel to the ceiling is greater than 1 metre, a ceiling smoke detector must be connected in addition to the RMZ smoke detection control panel, an RM-N ceiling smoke detector must be connected.



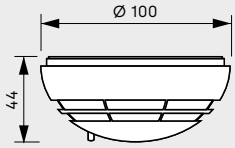
01

01 Smoke detection control panel RMZ
The RMZ smoke detector in the Contur design provides a 24V DC supply for all the hold-open devices connected to it. In the event of an alarm or power failure, it de-energises the devices (release function). It has an automatic reset which can be switched to manual mode if required. A floating (no-volt) change-over contact and connections for both further detectors and for an external manual release device are also provided.

Designs
- RMZ. With integral power pack. Supply voltage 230 V AC, operating voltage 24 V DC
- RMZ DCW®. Smoke detector without power supply unit for connection to DCW® bus
- RMZ in Contur-Design. With stabilized power supply unit.
- RMZ DCW® in Contur-Design. Available without power supply unit for connection to the building management system via DCW® system bus and dormakaba TMS door management system.
- Optionally with integrated alarm module for acoustic monitoring
- Color variants silver, white (see RAL 9016), stainless steel design or special color (see RAL)

F Approval certification
The smoke detection control panel RMZ in the Contur design smoke detector has been granted general building approval by the German Institute for Building Technology, Berlin; acceptance inspection mandatory in Germany.

Regulations/Information
The smoke detector unit has to be replaced after 8 years according to DIN 14677. Having reached the replacement time, a light-emitting diode will light continuously.

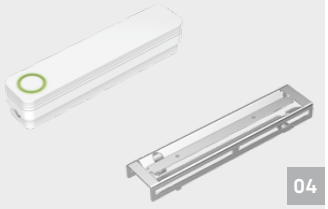


02

02 RM-N Smoke detector
The RM-N smoke detector senses both smoldering and open, developing fires early and can be connected to all dormakaba hold-open systems.

F Approval certification
The RM-N or RM-F smoke detector has been granted general building approval by the German Institute for Building Technology, Berlin; acceptance inspection mandatory in Germany.

03



04

03 FM AP radio module
The FM AP radio module is connected to the smoke detection control unit and serves as a receiver for the RM-F radio smoke detectors and HT-F radio push buttons. Up to 8 radio devices can be registered. The multicolor, LED-illuminated ring indicates the operating status.

04 FM Console
Mounting console for the FM AP radio module

05

05 RM-F radio smoke detector
The RM-F radio smoke detector with multicolor, LED-illuminated ring senses smoldering fires as well as open fires with smoke development. The LED-illuminated ring indicates the operating status. The integrated battery is designed for 8 years of operation and can be replaced.

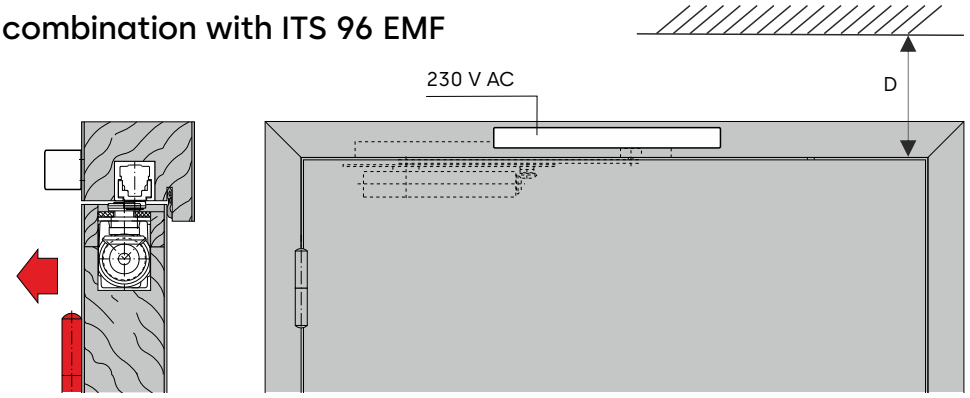
06

06 HT-F radio push button
The HT-F radio push button adds manual switching capability to the system. A multicolor LED provides information about the operating status. The integrated battery is designed for 8 years of operation and can be replaced. The push button is supplied with a surface-mounted box, but can also be installed in a flush-mounted box with a minimum depth of 50 mm.

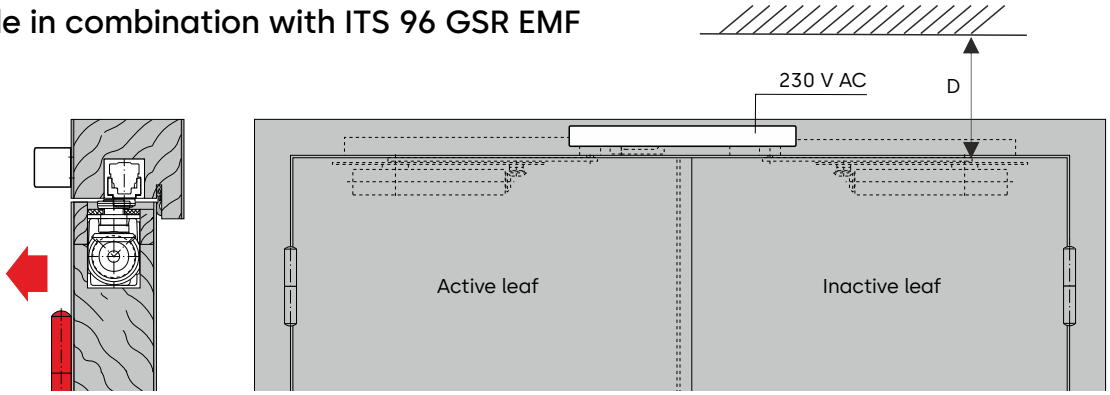
RMZ smoke detection control installation examples

Example: Active leaf LH door, active leaf RH door mirror-inverted

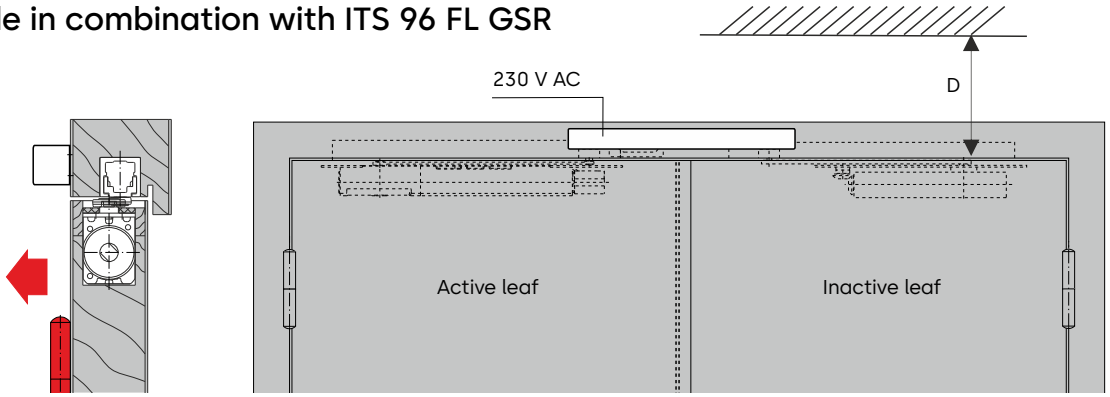
RMZ on hinge side in combination with ITS 96 EMF



RMZ on hinge side in combination with ITS 96 GSR EMF



RMZ on hinge side in combination with ITS 96 FL GSR



RMZ smoke detection control wiring diagrams

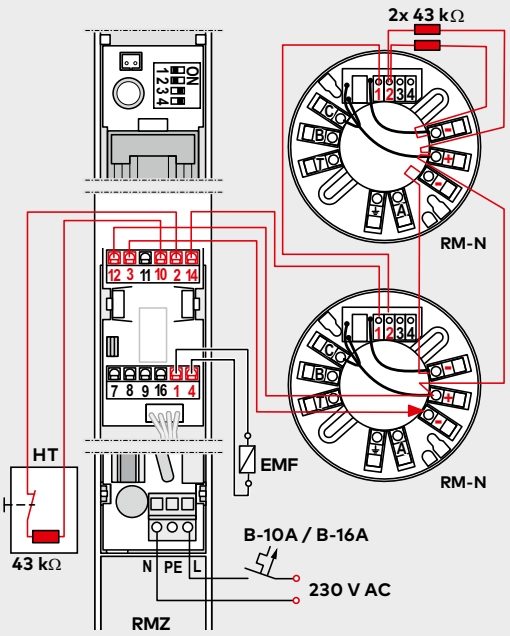
Example: Active leaf LH door, active leaf RH door mirror-inverted

Wiring diagram example RMZ with RM-N

Recommended cabling

230 V AC NYM 3 x 1.5 mm² (max.)

24 V DC J - Y (St) Y 2 x 2 x 0.6 mm²/0.8 mm²



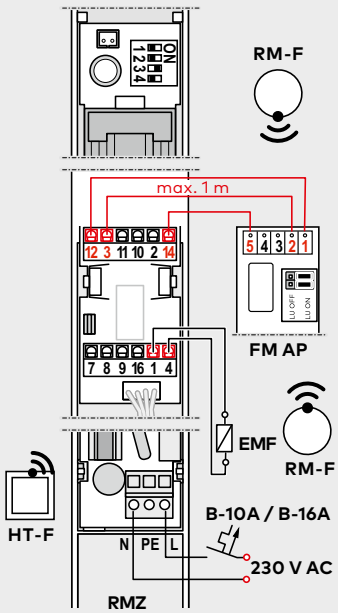
RMZ with FM AP/RM-F radio module

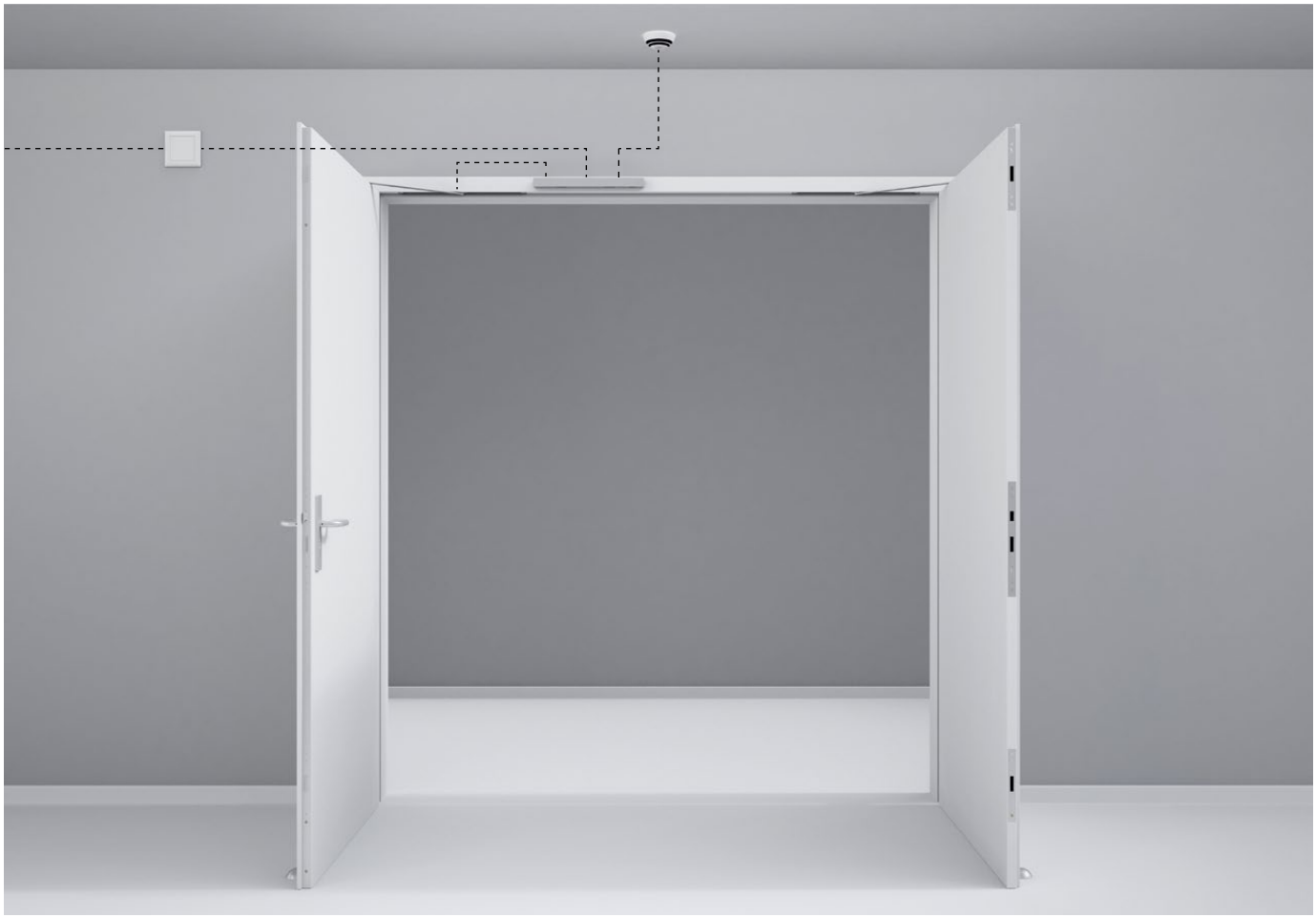
NEW

Recommended cabling

230 V AC NYM 3 x 1.5 mm² (max.)

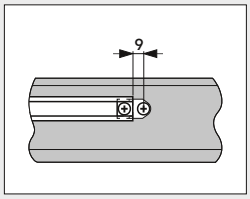
24 V DC 0.6 mm²/0.8 mm²



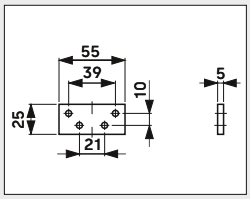


Fixing elements for sectional frame doors

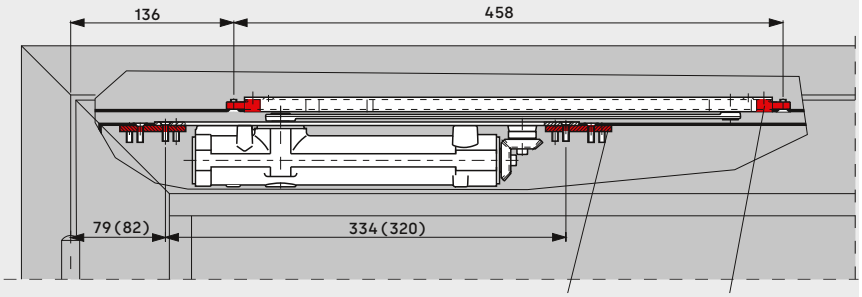
Fixing elements for G 96 N20 and G 96 N slide channels with all door closers

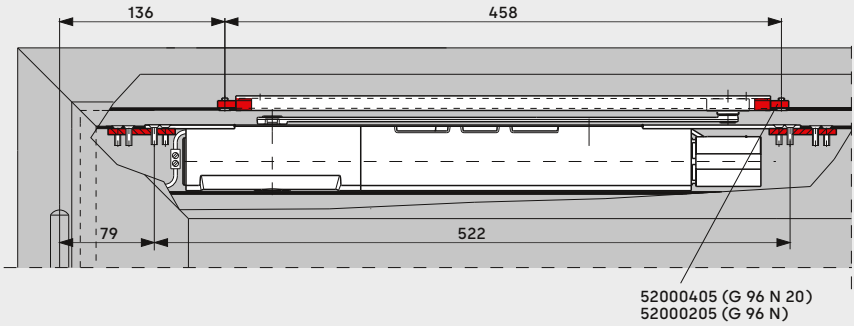


52000405 (G 96 N 20)
52000205 (G 96 N)

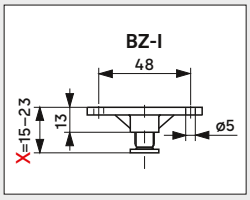


52000300

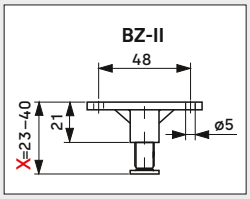




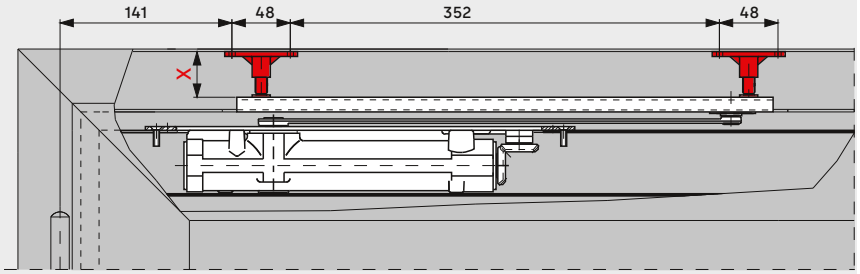
Fixing elements with height adjustment for all G 96 slide channels

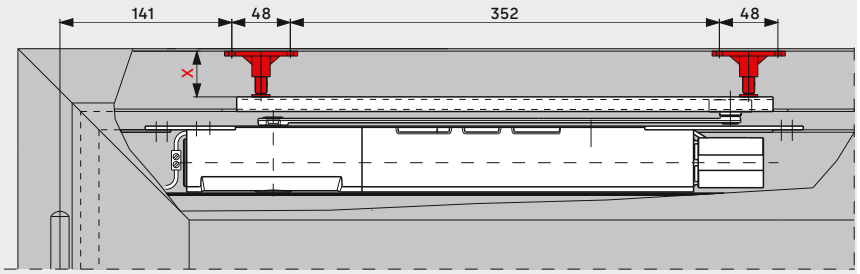


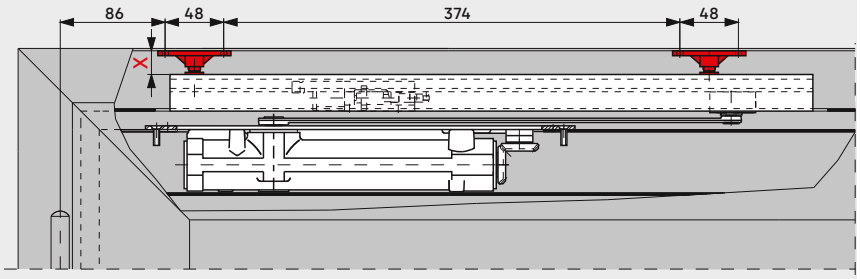
52004705



52004805

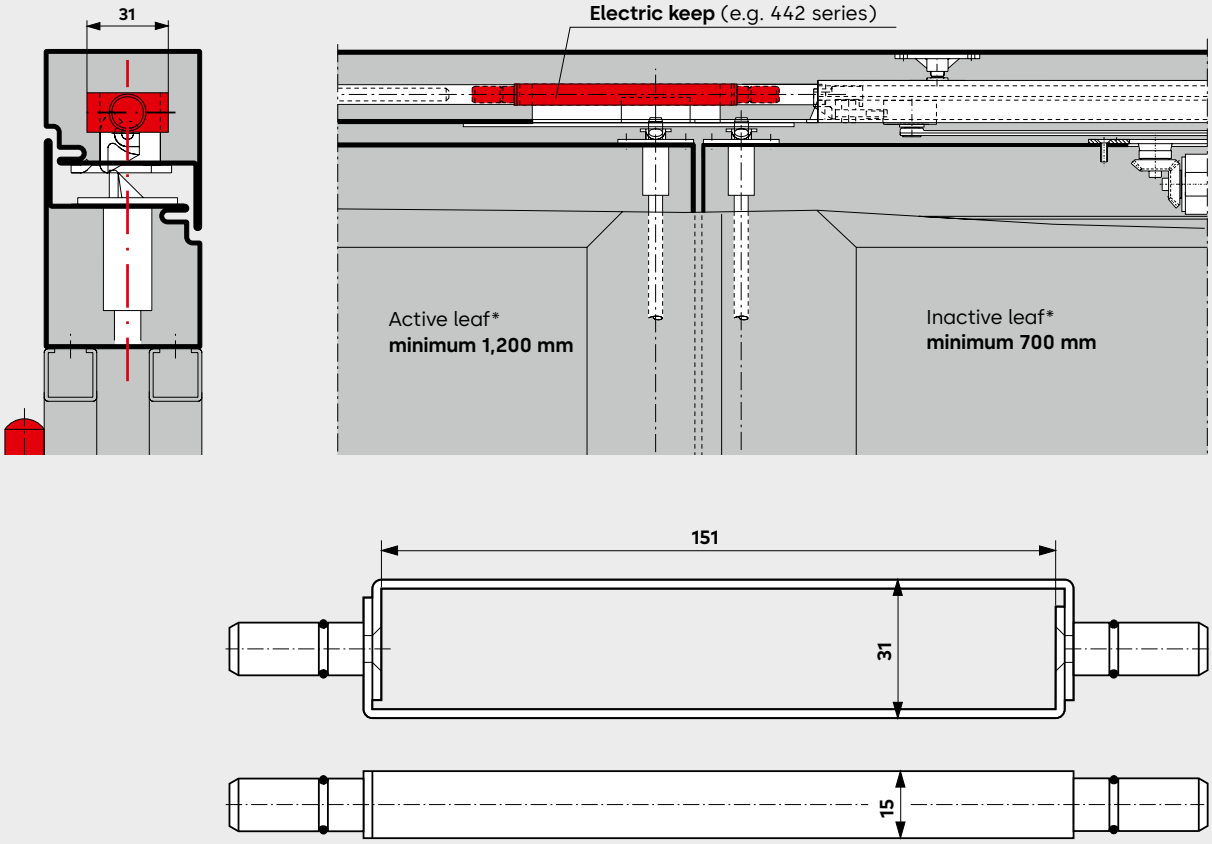




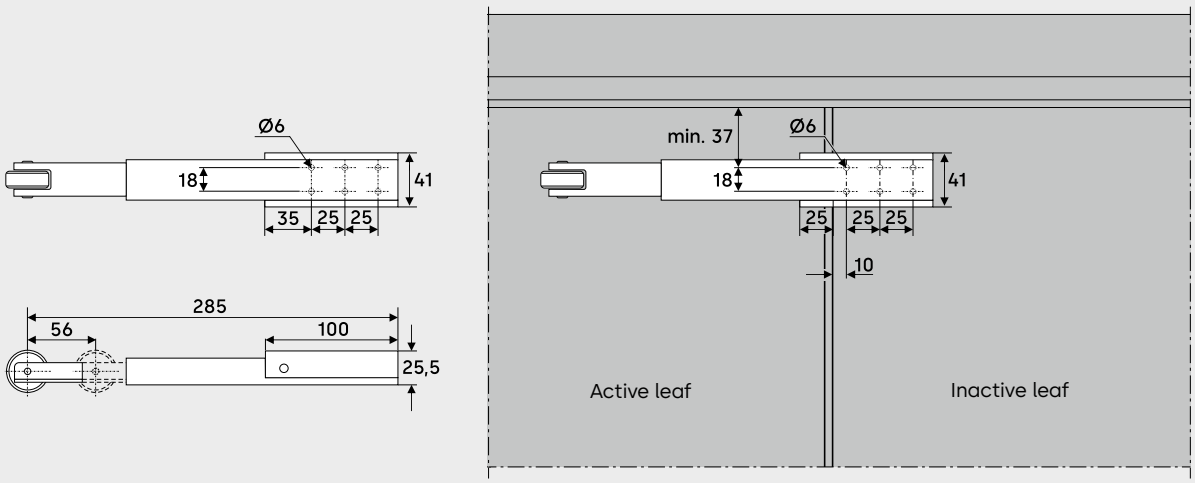


Accessories

GSR connecting frame for use with electric keep or top door lock



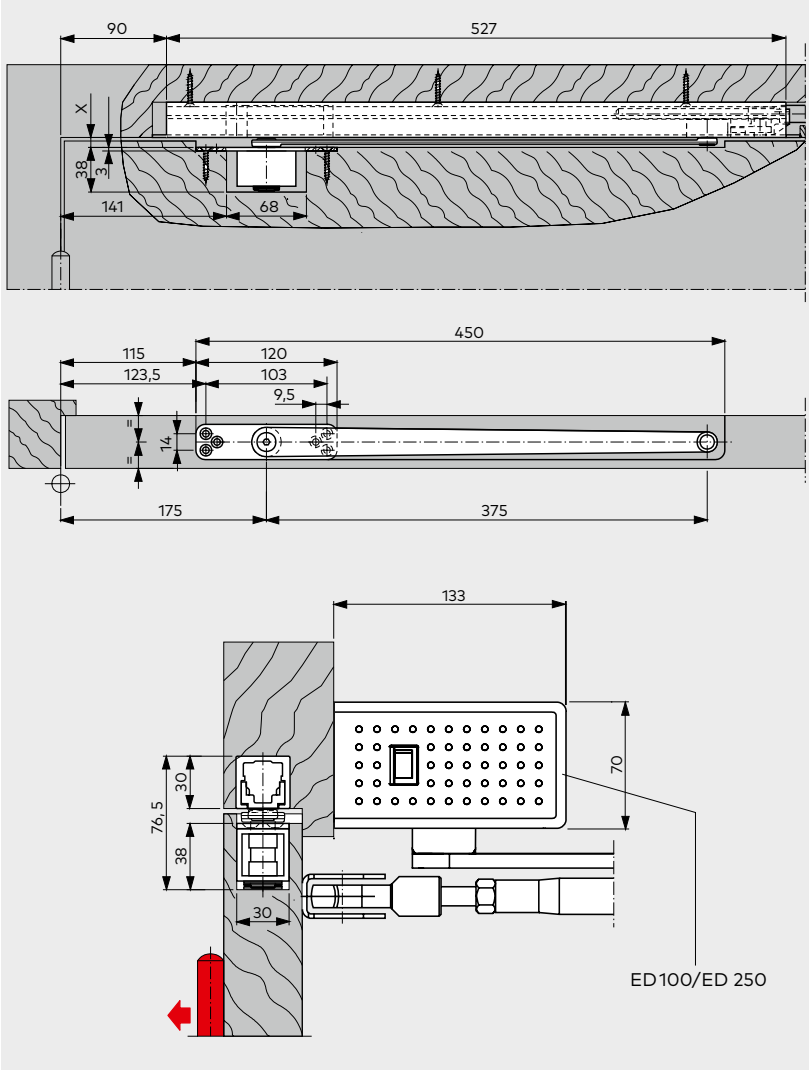
MK 397 carry bar



ITS pivot bearing for doors without door closer

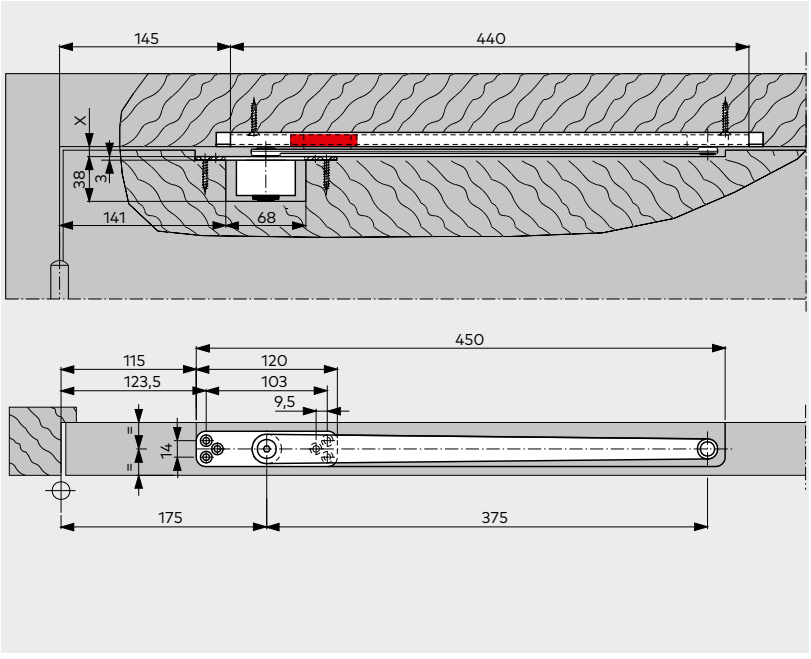
For G 96 GSR door coordinators to operate independently of ITS 96 door closers, e.g. in conjunction with the automatic ED 100/ED 250 swing door drive, the GSR pivot bearing is used to establish the required connection between door coordinator and door leaf.

Design ITS-GSR pivot bearing:	**X** in mm
without spindle extension, with installation of K8/K12 slide channel	8.5/12
with 4 mm spindle extension, with installation of K8/K12 slide channel	12.5/16
8 mm spindle extension on request	



In combination with the G 96 N20 slide channel, the pivot bearing can also be used as **cushioned limit stay**.

Note
The cushioned limit stay is no overload release and does not substitute a door stopper.



Scope of delivery and accessories

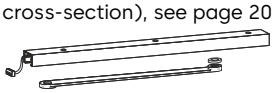
ITS 96, ITS 96 BCA, ITS 96 FL door closers

		Size	Spindle extension	Article no.
ITS 96 | Door closer with EasyOpen technology, see page 8		EN 2-4	without	52400150
			1,5 mm	52430150
			4 mm	52410150
			8 mm	52420150
		EN 3-6	without	52250150
			1,5 mm	52290150
			4 mm	52260150
			8 mm	52270150
ITS 96 BCA | Door closer with EasyOpen technology and backcheck to protect against uncontrolled slamming, see page 9		EN 3-6	without	52100250
			1,5 mm	52110250
			4 mm	52120250
			8 mm	52130250
ITS 96 FL | Door closer with free-swing function and EasyOpen technology in the event of an emergency, see page 12		EN 3-6	without	52630150
			1,5 mm	52660150
			4 mm	52640150
			8 mm	52650150
Mounting plates for installation into framed doors For ITS 96, ITS 96 BCA, ITS 96 FL, see page 40				52000300

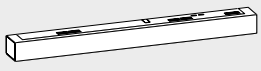
Cable transition
For ITS 96 FL, from door frame to door leaf

KÜ 480 | Cable transition	15813000
KS 370 | Cable spiral	15819000
LK-12 | Detachable cable transition plug	15813010

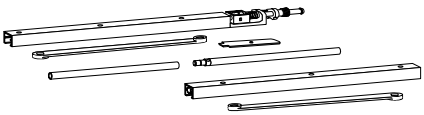
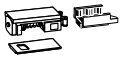
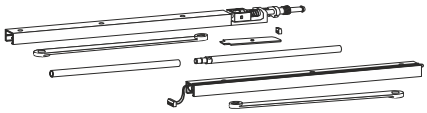
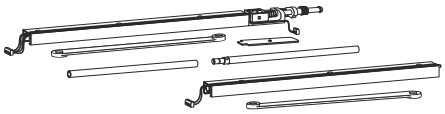
Slide channels for 1-leaf door systems

				Article no.
G 96 N20 | Slide channel with integrated mechanically cushioned limit stay (20 x 12 mm cross-section), see page 15 	Arm	LH punched cranked arm	Colour see **XX**	520037**XX**
			RH punched cranked arm	Colour see **XX**	520038**XX**
			Punched arm	Colour see **XX**	520039**XX**
			LH forged arm	Silver P600	52980101
			RH forged arm	Silver P600	52980201
	RF hold-open unit for G 96 N20 				13000100
	Frame fixing elements for G 96 N20 sectional frame 				52000405
G 96 N | Slide channel with integrated mechanically cushioned limit stay (31 x 20 mm cross-section), see page 18 	Arm	LH punched cranked arm	Colour see **XX**	520019**XX**
			RH punched cranked arm	Colour see **XX**	520020**XX**
			LH forged arm	Silver P600	52980301
			RH forged arm	Silver P600	52980401
			Punched arm	Silver P600	52000501
	RF hold-open unit for G 96 N 				52003600
	Frame fixing elements for G 96 N sectional frame 				52000205
G 96 EMF | Slide channel with electro-mechanical hold-open (31 x 30 mm cross-section), see page 20 	Arm	LH punched cranked arm	Colour see **XX**	520015**XX**
			RH punched cranked arm	Colour see **XX**	520016**XX**
			LH forged arm	Silver P600	52980501
			RH forged arm	Silver P600	52980601
	Fixing bracket				9900057005003
BZ | Fixing elements for height adjustment of the slide channels in the sectional frame  LH RH			**BZ I** (15 to 24 mm)	52004705
				BZ II (23 to 40 mm)	52004805

Smoke detection control and smoke detectors

RMZ smoke detection control with 230 V power supply unit 	RMZ	Colour see **XX**	648000**XX**
	RMZ XEA	Colour see **XX**	578000**XX**
RM-N smoke detector Packaging unit = 2 pcs. 		White (cf. RAL 9003)	64830900
FM AP radio module 		Silver (RAL 9006)	57290001
		White (RAL 9016)	57290011
RM-F radio smoke detector Packaging unit = 2 pcs. 			57280011
HT-F AP/UP radio push button 			57300011

Slide channels for 2-leaf door systems

				Article no.
G 96 GSR | Slide channel with integrated mechanically cushioned limit stay (31 x 30 mm cross-section), see page 23 	Including arm for door widths > 700 mm	Punched cranked arm	Colour see **XX**	520018**XX**
		Forged arm	Silver P600	52980701
	Including arm for narrow inactive leaves 540 to 700 mm	Punched cranked arm	Colour see **XX**	520040**XX**
		Forged arm	Silver P600	52980801
	RF hold-open unit for G 96 GSR (installation only on inactive leaf side) 			52003500
	Fixing elements for timber frame 			52000105
	Fixing elements for sectional frame 			52000205
G 96 GSR EMF-1 | Slide channel with integrated mechanically cushioned limit stay (31 x 30 mm cross-section), see page 24 	Including arm for door widths > 700 mm	Punched cranked arm	Colour see **XX**	520087**XX**
		Forged arm	Silver P600	52981101
G 96 GSR EMF-2 | Slide channel with integrated mechanically cushioned limit stay (31 x 30 mm cross-section), see page 26 	Including arm for door widths > 700 mm	Punched cranked arm	Colour see **XX**	520017**XX**
		Forged arm	Silver P600	52980901
	Including arm for narrow inactive leaves 540 to 700 mm	Punched cranked arm	Colour see **XX**	520042**XX**
		Forged arm	Silver P600	52981001

Accessories for 2-leaf door systems

BZ | Fixing elements for height adjustment in sectional frames (2 packaging units for each G 96 GSR) 		**BZ I** (15 to 24 mm)		52004705
		BZ II (23 to 40 mm)		52004805
GSR connecting frame | For use with electric keep or top door lock 				52004400
G 96 N/GSR pivot bearing with spindle | Pivot bearing for door coordinator without door closer with standard spindle (8 mm spindle extension on request) 		Without spindle extension		52003400
		4 mm spindle extension		52982500
MK 397 carry bar | Addition to the door coordinator in escape route doors 			Zinc-plated	47002900
			Special colour to RAL	47002930

Colour	**XX**
Silver P600 (similar to RAL 9006)	01
White P100 (similar to RAL 9016)	(RMZ only) 11
Black P190 (similar to RAL 9005)	19

For further colors see price list

Hold-open devices: Regulations/information

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.
Please refer to the following documents for additional information:
- **Guidelines for hold-open systems issued by the Deutsches Institut für Bautechnik, Berlin**
- **General building approval of the respective hold-open system**
- **EN 1155**
- **DIN EN 14637**
- **DIN 14677**

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 logo and month and year of acceptance)
to be permanently attached.

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.

Tender specifications texts

ITS 96 FL
dormakaba ITS 96 FL EN 3-6, door closer for 1-leaf doors

Designation: ITS 96 FL EN 3-6
Design: Free-swing door closer integrated in door leaf, with standard slide channel
Functions: optionally selectable
Manufacturer: dormakaba

Product description/functions
Closing unit dimensions W x H x D (mm): 476 x 51 x 39.5
Closing force: EN 3-6, free-swing function starting at 0° door opening angle, significantly reduces opening force for easy door opening, infinitely adjustable closing speed, 7° to 0° latching action, including cushioned limit stay in the slide channel, max. opening angle 120°.

Technical data
Operating voltage: 24 V DC
Protection class: IP 30

Authorisation and certificates
Manufactured to DIN ISO 9001, environmental product declaration under ISO 14025 and EN 15804, EPD declaration number: EPD-ARG-20160183-IBG1-DE, door closer tested to EN 1154 and EN 1155, CE marking for construction products, barrier-free to DIN 18040 up to 1,400 mm door width. General building approval by DIBt, Berlin, for the use in hold-open systems. Acceptance test mandatory.

EN 1154 classification
Closing from 105° door opening: Class 3; 500,000 cycles continuous function: Class 8; door closer size: EN 3-6; applicability on fire and smoke doors: Class 1; safety: Class 1; high corrosion resistance: Class 4.

EN 1155 classification
Application class 3; 500,000 cycles continuous function: Class 8; hold-open size: EN 3-6; applicability on fire and smoke doors: Class 1; safety: Class 1; high corrosion resistance: Class 4.

Areas of application
- Single-leaf doors
- Internal doors
- Smoke and fire doors
- Barrier-free doors

Door type
1-leaf, door leaf width: up to 1,400 mm

Installation positions
Can be used LH and RH integrated in the door leaf.

Options
☐ dormakaba RM-N ceiling smoke detector
Can be used as a secondary and tertiary detector on all dormakaba hold-open systems. With potential-free changeover contact. General building approval by DIBt Berlin. Acceptance test mandatory.
☐ dormakaba surface-mounted manual switch
☐ dormakaba flush-mounted manual switch

Colour RM-N ceiling smoke detector
☐ White, cf. RAL 9003

Packaging unit: pcs.

Tender specifications texts

ITS 96 EMF EN 2-4
dormakaba ITS 96 EMF EN 2-4

Designation: ITS 96 EMF EN 2-4
Design: Integrated in door leaf,
with electro-mechanical hold-open
Functions: optionally selectable
Manufacturer: dormakaba

Product description/functions
Closing unit dimensions W x H x D (mm): 277 x 42 x 32
Closing force: EN 2-4, significantly decreased opening force for easy door opening, infinitely adjustable closing speed, 7° to 0° latching action.

Slide channel product description/functions
Slide channel with electro-mechanical hold-open action, hold-open point between 80° and 120°, adjustable door opening angle, hold-open point is maximum opening angle, tool-free adjustable release force.

Technical data
Max. power input (W): 1.4
Operating voltage: 24 V DC ± 15%

Authorisation and certificates
Manufactured to DIN ISO 9001, environmental product declaration under ISO 14025 and EN 15804, EPD declaration number: EPD-DOR-20150184-IBB1-DE, door closer tested to EN 1154, slide channel tested to EN 1155, CE marking for construction products, barrier-free to DIN 18040 up to 1,100 mm door width, significantly reduced opening force pursuant to DIN SPEC 1104.

EN 1154 classification
Closing from 105° door opening: Class 3; 500,000 cycles continuous function: Class 8; door closer size: EN 2-4; applicability on fire and smoke doors: Class 1; safety: Class 1; very high corrosion resistance: Class 4.

EN 1155 classification
Application class 3; 500,000 cycles continuous function: Class 8; hold-open size: EN 3-5; applicability on fire and smoke doors: Class 1; safety: Class 1; high corrosion resistance: Class 3.

Areas of application
- Single-leaf doors
- Internal doors
- Smoke and fire doors
- Escape and rescue route doors
- Barrier-free doors

Door type
1-leaf, door leaf width: up to 1,100 mm

Installation position
Integrated in door leaf.

Options
☐ dormakaba RMZ smoke detection control in Contour design
Dimensions W x H x D (mm): 379 x 34 x 30. With alarm threshold tracking for consistent response behaviour, with operating and maintenance indicator, integrated power supply unit and optical smoke detector for lintel installation. For actuating dormakaba hold-open devices. Option to connect additional detectors and external manual releases, potential-free alarm contact. Can be switched to manual reset, overall height 30 mm. General building approval by DIBt Berlin. Acceptance test mandatory.
☐ RS alarm module, acoustic alarm module for retrofitting to the smoke detection control

Colour RMZ smoke detection control
☐ Silver, similar RAL 9006 (P600)
☐ White, similar RAL 9016 (P100)
☐ White, similar RAL 9010 (P210)
☐ Stainless steel design P700
☐ Gold (P750)
☐ Special colour P000

☐ dormakaba RM-N ceiling smoke detector
Can be used as a secondary and tertiary detector on all dormakaba hold-open systems. With potential-free changeover contact. General building approval by DIBt Berlin. Acceptance test mandatory.

Colour RM-N ceiling smoke detector
☐ White, cf. RAL 9003

Packaging unit: pcs.

Tender specifications texts

ITS 96 EMF EN 3-6
dormakaba ITS 96 EMF EN 3-6

Designation: ITS 96 EMF EN 3-6
Design: Integrated in door leaf,
with electro-mechanical hold-open
Functions: optionally selectable
Manufacturer: dormakaba

Product description/functions
Closing unit dimensions W x H x D (mm): 291 x 51 x 39.5
Closing force: EN 3-6, significantly decreased opening force for easy door opening, infinitely adjustable closing speed, 7° to 0° latching action.

Slide channel product description/functions
Slide channel with electro-mechanical hold-open action, hold-open point between 80° and 120°, adjustable door opening angle, hold-open point is maximum opening angle, tool-free adjustable release force.

Technical data
Max. power input (W): 1.4
Operating voltage: 24 V DC ± 15%

Authorisation and certificates
Manufactured to DIN ISO 9001, environmental product declaration under ISO 14025 and EN 15804, EPD declaration number: EPD-DOR-20150184-IBB1-DE, door closer tested to EN 1154, slide channel tested to EN 1155, CE marking for construction products, barrier-free to DIN 18040 up to 1,250 mm door width, significantly reduced opening force pursuant to DIN SPEC 1104.

EN 1154 classification
Closing from 105° door opening: Class 3; 500,000 cycles continuous function: Class 8; door closer size: EN 3-6; applicability on fire and smoke doors: Class 1; safety: Class 1; very high corrosion resistance: Class 4.

EN 1155 classification
Application class 3; 500,000 cycles continuous function: Class 8; hold-open size: EN 3-5; applicability on fire and smoke doors: Class 1; safety: Class 1; high corrosion resistance: Class 3.

Areas of application
- Single-leaf doors
- Internal doors
- Smoke and fire doors
- Escape and rescue route doors
- Barrier-free doors

Door type
1-leaf, door leaf width: up to 1,250 mm

Installation position
Integrated in door leaf.

Options
☐ dormakaba RMZ smoke detection control in Contour design
Dimensions W x H x D (mm): 379 x 34 x 30
With alarm threshold tracking for consistent response behaviour, with operating and maintenance indicator, integrated power supply unit and optical smoke detector for lintel installation.
For actuating dormakaba hold-open devices. Option to connect additional detectors and external manual releases, potential-free alarm contact. Can be switched to manual reset, overall height 30 mm. General building approval by DIBt Berlin. Acceptance test mandatory.
☐ RS alarm module, acoustic alarm module for retrofitting to the smoke detection control

Colour RMZ smoke detection control
☐ Silver, similar RAL 9006 (P600)
☐ White, similar RAL 9016 (P100)
☐ White, similar RAL 9010 (P210)
☐ Stainless steel design P700
☐ Gold (P750)
☐ Special colour P000

☐ dormakaba RM-N ceiling smoke detector
Can be used as a secondary and tertiary detector on all dormakaba hold-open systems. With potential-free changeover contact. General building approval by DIBt Berlin. Acceptance test mandatory.

Colour RM-N ceiling smoke detector
☐ White, cf. RAL 9003

Packaging unit: pcs.

Tender specifications texts

ITS 96 EN 2-4
dormakaba ITS 96 EN 2-4, door closer for 1-leaf doors

Designation: ITS 96 EN 2-4
Design: Integrated in door leaf, with standard slide channel

Functions: optionally selectable
Manufacturer: dormakaba

Product description/functions
Closing unit dimensions W x H x D (mm): 277 x 42 x 32
Closing force: EN 2-4, significantly decreased opening force for easy door opening, infinitely adjustable closing speed, 7° to 0° latching action, including cushioned limit stay in the slide channel.

Authorisation and certificates
Manufactured to DIN ISO 9001, environmental product declaration under ISO 14025 and EN 15804, EPD declaration number: EPD-DOR-20150184-IBB1-DE, tested to EN 1154, CE marking, barrier-free to DIN 18040 up to 1,100 mm door width, significantly reduced opening force pursuant to DIN SPEC 1104.

EN 1154 classification
Closing from 105° door opening: Class 3; 500,000 cycles continuous function: Class 8; door closer size: EN 2-4; applicability on fire and smoke doors: Class 1; safety: Class 1; very high corrosion resistance: Class 4.

Areas of application
- Single-leaf doors
- Internal doors
- Smoke and fire doors
- Escape and rescue route doors
- Barrier-free doors

Door type
1-leaf, door leaf width: up to 1,100 mm

Installation position
Integrated in door leaf.

Options
☐ Mechanical hold-open unit
Note: Not suitable for fire and smoke doors.

Packaging unit: pcs.

Tender specifications texts

ITS 96 EN 3-6
dormakaba ITS 96 EN 3-6, door closer for 1-leaf doors

Designation: ITS 96 EN 3-6
Design: Integrated in door leaf, with standard slide channel

Functions: optionally selectable
Manufacturer: dormakaba

Product description/functions
Closing unit dimensions W x H x D (mm): 291 x 51 x 39.5
Closing force: EN 3-6, significantly decreased opening force for easy door opening, infinitely adjustable closing speed, 7° to 0° latching action, including cushioned limit stay in the slide channel.

Authorisation and certificates
Manufactured to DIN ISO 9001, environmental product declaration under ISO 14025 and EN 15804, EPD declaration number: EPD-DOR-20150184-IBB1-DE, tested to EN 1154, CE marking, barrier-free to DIN 18040 up to 1,250 mm door width, significantly reduced opening force pursuant to DIN SPEC 1104.

EN 1154 classification
Closing from 105° door opening: Class 3; 500,000 cycles continuous function: Class 8; door closer size: EN 3-6; applicability on fire and smoke doors: Class 1; safety: Class 1; very high corrosion resistance: Class 4.

Areas of application
- Single-leaf doors
- Internal doors
- Smoke and fire doors
- Escape and rescue route doors
- Barrier-free doors

Door type
1-leaf, door leaf width: up to 1,400 mm

Installation position
Integrated in door leaf.

Options
☐ Mechanical hold-open unit
Note: Not suitable for fire and smoke doors.

Packaging unit: pcs.

Tender specifications texts

ITS 96 GSR EMF EN 2-4
dormakaba ITS 96 GSR EMF EN 2-4

Designation: ITS 96 GSR EMF EN 2-4
Design: Integrated in door leaf,
with door coordinator integrated in the slide channel
Functions: optionally selectable
Manufacturer: dormakaba

Closing unit product description/functions
Closing unit dimensions W x H x D (mm): 277 x 42 x 32
Closing force: EN 2-4, significantly decreased opening force for easy door opening, infinitely adjustable closing speed, 7° to 0° latching action.

Slide channel product description/functions
Slide channels with integrated mechanical door coordinator. Door coordination independent of the closing hydraulics via push rod clamping with overload release, overall height 30 mm. Electro-mechanical hold-open unit integrated in the slide channel system, 24 V DC, to EN 1155. Infinitely adjustable hold-open point (between 80° and 120°) and release force via electro-mechanical hold-open unit in the active and inactive leaf.

Authorisation and certificates
Manufactured to DIN ISO 9001, environmental product declaration under ISO 14025 and EN 15804, EPD declaration number: EPD-DOR-20150184-IBB1-DE, door closer tested to EN 1154, CE marking for construction products, barrier-free to DIN 18040 up to 1,100 mm door width, significantly reduced opening force pursuant to DIN SPEC 1104, slide channel with door coordinator and electro-mechanical hold-open unit tested to EN 1158 and EN 1155, evidence of suitability in conjunction with the respective fire and smoke door required. General building approval by DIBt, Berlin, for the use in hold-open systems.

EN 1154 classification
Closing from 180° door opening: Class 4; 500,000 cycles continuous function: Class 8; door closer size: EN 2-4; applicability on fire and smoke doors: Class 1; safety: Class 1; very high corrosion resistance: Class 4.

EN 1155 classification
Application class 3; 500,000 cycles continuous function: Class 8; hold-open size: EN 3-5; applicability on fire and smoke doors: Class 1; safety: Class 1; high corrosion resistance: Class 3.

EN 1158 classification
Application class 3; 500,000 cycles continuous function: Class 8; door coordinator size 3-7; applicability on fire and smoke doors: Class 1; safety: Class 1; high corrosion resistance: Class 3.

Areas of application
- Double-leaf doors
- Internal doors
- Smoke and fire doors
- Escape and rescue route doors
- Barrier-free doors

Door type
2-leaf, door leaf width: up to 1,100 mm each door leaf

Installation position
Integrated in door leaf.

Options
☐ dormakaba RMZ smoke detection control in Contour design
Dimensions W x H x D (mm): 379 x 34 x 30 With alarm threshold tracking for consistent response behaviour, with operating and maintenance indicator, integrated power supply unit and optical smoke detector for lintel installation. For actuating dormakaba hold-open devices. Option to connect additional detectors and external manual releases, potential-free alarm contact. Can be switched to manual reset, overall height 30 mm. General building approval by DIBt Berlin. Acceptance test mandatory.
☐ RS alarm module, acoustic alarm module for retrofitting to the smoke detection control

Colour RMZ smoke detection control
☐ Silver, similar RAL 9006 (P600)
☐ White, similar RAL 9016 (P100)
☐ White, similar RAL 9010 (P210)
☐ Stainless steel design
☐ Gold (P750)
☐ Special colour

☐ dormakaba RM-N ceiling smoke detector
Can be used as a secondary and tertiary detector on all dormakaba hold-open systems. With potential-free changeover contact. General building approval by DIBt Berlin. Acceptance test mandatory.

Colour RM-N ceiling smoke detector
White, cf. RAL 9003

Packaging unit: pcs.

Tender specifications texts

ITS 96 GSR EMF EN 3-6
dormakaba ITS 96 GSR EMF EN 3-6

Designation: ITS 96 GSR EMF EN 3-6
Design: Integrated in door leaf,
with door coordinator integrated in the slide channel
Functions: optionally selectable
Manufacturer: dormakaba

Closing unit product description/functions
Closing unit dimensions W x H x D (mm): 291 x 51 x 39.5
Closing force: EN 3-6, significantly decreased opening force for easy door opening, infinitely adjustable closing speed, 7° to 0° latching action.

Slide channel product description/functions
Slide channels with integrated mechanical door coordinator.
Door coordination independent of the closing hydraulics via push rod clamping with overload release, overall height 30 mm.
Electro-mechanical hold-open unit integrated in the slide channel system, 24 V DC, to EN 1155, infinitely adjustable hold-open point (between 80° and 120°) and release force via electro-mechanical hold-open unit in the active and inactive leaf.

Authorisation and certificates
Manufactured to DIN ISO 9001, environmental product declaration under ISO 14025 and EN 15804, EPD declaration number: EPD-DOR-20150184-IBB1-DE, door closer tested to EN 1154, CE marking for construction products, barrier-free to DIN 18040 up to 1,250 mm door width, significantly reduced opening force pursuant to DIN SPEC 1104, slide channel with door coordinator and electro-mechanical hold-open unit tested to EN 1158 and EN 1155, evidence of suitability in conjunction with the respective fire and smoke door required. General building approval by DIBt, Berlin, for the use in hold-open systems.

EN 1154 classification
Closing from 180° door opening: Class 4; 500,000 cycles continuous function: Class 8; door closer size: EN 3-6; applicability on fire and smoke doors: Class 1; safety: Class 1; very high corrosion resistance: Class 4.

EN 1155 classification
Application class 3; 500,000 cycles continuous function: Class 8; hold-open size: EN 3-5; applicability on fire and smoke doors: Class 1; safety: Class 1; high corrosion resistance: Class 3.

EN 1158 classification
Application class 3; 500,000 cycles continuous function: Class 8; door coordinator size 3-7; applicability on fire and smoke doors: Class 1; safety: Class 1; high corrosion resistance: Class 3.

Areas of application
- Double-leaf doors
- Internal doors
- Smoke and fire doors
- Escape and rescue route doors
- Barrier-free doors

Door type
2-leaf, door leaf width: up to 1,250 mm each door leaf

Installation position
Integrated in door leaf.

Options
☐ dormakaba RMZ smoke detection control in Contour design
Dimensions W x H x D (mm): 379 x 34 x 30 With alarm threshold tracking for consistent response behaviour, with operating and maintenance indicator, integrated power supply unit and optical smoke detector for lintel installation. For actuating dormakaba hold-open devices. Option to connect additional detectors and external manual releases, potential-free alarm contact. Can be switched to manual reset, overall height 30 mm. General building approval by DIBt Berlin. Acceptance test mandatory.
☐ RS alarm module, acoustic alarm module for retrofitting to the smoke detection control

Colour RMZ smoke detection control
☐ Silver, similar RAL 9006 (P600)
☐ White, similar RAL 9016 (P100)
☐ White, similar RAL 9010 (P210)
☐ Stainless steel design
☐ Gold (P750)
☐ Special colour

☐ dormakaba RM-N ceiling smoke detector
Can be used as a secondary and tertiary detector on all dormakaba hold-open systems. With potential-free changeover contact. General building approval by DIBt Berlin. Acceptance test mandatory.

Colour RM-N ceiling smoke detector
White, cf. RAL 9003

Packaging unit: pcs.

Tender specifications texts

ITS 96 GSR EN 2-4
dormakaba ITS 96 GSR EN 2-4

Designation: ITS 96 GSR EN 2-4
Design: Integrated in door leaf,
with door coordinator integrated in the slide channel
Functions: optionally selectable
Manufacturer: dormakaba

Closing unit product description/functions
Closing unit dimensions W x H x D (mm): 277 x 42 x 32
Closing force: EN 2-4, significantly decreased opening force for easy door opening, infinitely adjustable closing speed, 7° to 0° latching action.

Slide channel product description/functions
Slide channels with integrated mechanical door coordinator. Door coordination independent of the closing hydraulics via push rod clamping with overload release, overall height 30 mm.

Authorisation and certificates
Manufactured to DIN ISO 9001, environmental product declaration under ISO 14025 and EN 15804, EPD declaration number: EPD-DOR-20150184-IBB1-DE, tested to EN 1154, CE marking, barrier-free to DIN 18040 up to 1,100 mm door width, significantly reduced opening force pursuant to DIN SPEC 1104, slide channel with door coordinator tested to EN 1158.

EN 1154 classification
Closing from 105° door opening: Class 3; 500,000 cycles continuous function: Class 8; door closer size: EN 2-4; applicability on fire and smoke doors: Class 1; safety: Class 1; very high corrosion resistance: Class 4.

EN 1158 classification
Application class 3; 500,000 cycles continuous function: Class 8; door coordinator size 3-7; applicability on fire and smoke doors: Class 1; safety: Class 1; high corrosion resistance: Class 3.

Areas of application
- Double-leaf doors
- Internal doors
- Smoke and fire doors
- Escape and rescue route doors
- Barrier-free doors

Door type
2-leaf, door leaf width: up to 1,100 mm each door leaf

Installation position
Integrated in door leaf.

Packaging unit: pcs.

Tender specifications texts

ITS 96 GSR EN 3-6
dormakaba ITS 96 GSR EN 3-6

Designation: ITS 96 GSR EN 3-6
Design: Integrated in door leaf,
with door coordinator integrated in the slide channel
Functions: optionally selectable
Manufacturer: dormakaba

Closing unit product description/functions
Closing unit dimensions W x H x D (mm): 291 x 51 x 39.5
Closing force: EN 3-6, significantly decreased opening force for easy door opening, infinitely adjustable closing speed, 7° to 0° latching action.

Slide channel product description/functions
Slide channels with integrated mechanical door coordinator. Door coordination independent of the closing hydraulics via push rod clamping with overload release, overall height 30 mm.

Authorisation and certificates
Manufactured to DIN ISO 9001, environmental product declaration under ISO 14025 and EN 15804, EPD declaration number: EPD-DOR-20150184-IBB1-DE, tested to EN 1154, CE marking, barrier-free to DIN 18040 up to 1,250 mm door width, significantly reduced opening force pursuant to DIN SPEC 1104, slide channel with door coordinator tested to EN 1158.

EN 1154 classification
Closing from 105° door opening: Class 3; 500,000 cycles continuous function: Class 8; door closer size: EN 3-6; applicability on fire and smoke doors: Class 1; safety: Class 1; very high corrosion resistance: Class 4.

EN 1158 classification
Application class 3; 500,000 cycles continuous function: Class 8; door coordinator size 3-7; applicability on fire and smoke doors: Class 1; safety: Class 1; high corrosion resistance: Class 3.

Areas of application
- Double-leaf doors
- Internal doors
- Smoke and fire doors
- Escape and rescue route doors
- Barrier-free doors

Door type
2-leaf, door leaf width: up to 1,400 mm each door leaf

Installation position
Integrated in door leaf.

Packaging unit: pcs.

Our Sustainability Commitment

We are committed to foster a sustainable development along our entire value chain in line with our economic, environmental and social responsibilities toward current and future generations. Sustainability at product level is an important, future-oriented approach in the field of construction. In order to give quantified disclosures of a product's environmental impact through its entire life cycle, dormakaba provides Environmental Product Declarations (EPD), based on holistic life cycle assessments.

www.dormakaba.com/sustainability

Our offering

Access Automation Solutions

Entrance Automation
Entrance Security

Access Control Solutions

Electronic Access & Data
Escape and Rescue Systems
Lodging Systems

Access Hardware Solutions

Door Closers
Architectural Hardware
Mechanical Key Systems

Services

Technical Support
Installation and commissioning
Maintenance and Repair

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