

Concealed cam-action door closer system

DORMA ITS 96





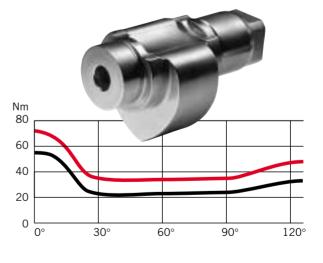
Concealed cam-action door closer system DORMA ITS 96

Flawless beauty

To ensure that prestigious doors retain all their inherent attraction, they can now be fitted with a concealed camaction door closer system the DORMA ITS 96. This is the first system of its kind, one which can be integrated in the door leaf and frame with the utmost elegance. Where the emphasis is on appearance, the disappearing DORMA System ITS 96 is the ideal solution for your doors: Advanced technology accommodated within the tightest of spaces, totally out of sight and featuring the proven heart-shaped cam which characterises all

DORMA slide channel door closers. The cam is literally at the

heart of DORMA slide channel door closers - it guarantees secure closing while at the same time offering a rapidly decreasing opening force so that even children, the elderly and disabled people encounter only minimum resistance as they open the door. However, it is not only these categories of user who benefit. Thanks to the substantial reduction in effort required, this technology offers the ultimate in user convenience to all.

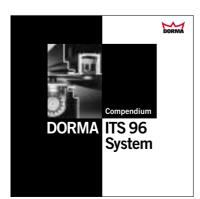


Force profile of an ITS 96 cam action door closer (Size EN 3 – 6, max. closing strength setting)

Opening forceClosing force







This CD-ROM contains the necessary information concerning DORMA ITS 96 System. Orders for the CD-ROM can be placed online under www.dorma.com

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Uncompromising technical sophistication

The DORMA ITS 96 has ushered in a new era in door closer technology. The closer body and slide channel are so compact that they can be installed out of sight in doors and their frames. These devices offer the same high quality expected of DORMA door closers, as characterised by their ease of operation for the user, and wide range of functions. Thanks to the exceptionally

slender dimensions of the unit, the DORMA ITS 96 can be installed in virtually all doors with thicknesses of 40 mm or more, and offers all the advantages of quality assured manufacture with third-party auditing.



Plus points...

... for the trade

- Low inventory costs and reduced stocking requirements thanks to streamlined modular system and separate packaging of closer body and slide channel assemblies.
- Tailor-made applications with special accessories.

... for the installer

- Non-handed system.
 Can be incorporated within the door pre-fabrication process, allowing complete installation in the factory.
- Easy adjustment of the closing strength, closing speed and latch action after hanging of the doors.

... for the specifier/architect

- Unblemished appearance of prestige doors thanks to concealed installation.
- Ideal for doors integral to the interior design.

... for the user

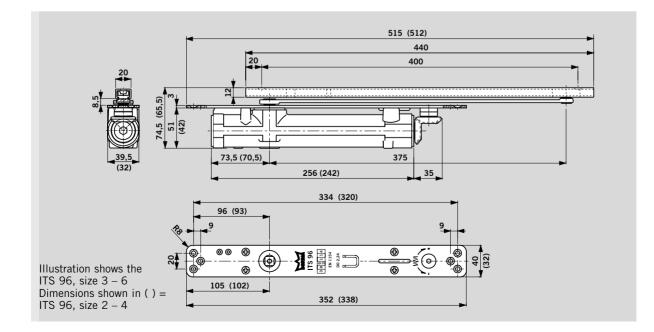
- Optimum protection against vandalism thanks to the concealed installation.
- Enhanced user convenience and fully controlled, reliable closing with
- adjustable latch action.
 Cushioned limit stay with progressive damping for protection of wall and door.

Data and features		ITS	96	
Variable closing force	Spring strength	EN 2-4	EN 3–6	
Standard doors	•	•		
External doors, outward oper	_	_		
Fire and smoke check doors	up to 1100 mm up to 1400 mm	•	•	
Door leaf thickness	equal to/greater than 40 mm equal to/greater than 50 mm	•	-	
Max. door leaf weight in kg		100	180	
Non-handed design (closer)		•	•	
Arm	Slide channel			
Closing force variable by mea of adjustable screw	•	•		
Closing speed adjustable by	•	•		
Latching speed adjustable by means of valve	•	•		
Cushioned limit stay, mechai	nical	•	•	
Delayed action		-	-	
Hold-open		0	0	
Max. door opening angle (depends on door design)		approx	k. 120°	
Weight in kg		1.3	2.5	
Dimensions in mm	277 32 42	291 39.5 51		
Door closer tested to EN 115		•		
Hold-open devices tested to		•		
Door co-ordinators tested to	EN 1158		Ð	
• Yes - No Option				

Yes − No ○ Option

Further information

Additional information about many of our products is available from a range of electronic media (Internet, CD-ROM, diskettes). The abbreviated codes next to the computer symbol \square indicate the search terms.





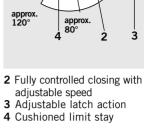
Adjustment of settings

The functions of the DORMA ITS 96 can be individually adapted to the local conditions of each application. The closing strength can be easily varied in accordance with the door width via the adjustment screw accessible from the top. The closing speed and the latch action can likewise be modified at any time using adjustment screws at the top, even after the door has been hung.

Cushioned limit stay

The integrated mechanically cushioned limit stay of the DORMA ITS 96 is progressively damped to protect the wall and doors from the damage arising from the door being opened too wide (under conditions of normal usage). It can be adjusted to an opening angle between approx. 80° and max. 120°. The cushioned limit stay feature is not an overload protection device and in many cases cannot replace a doorstop.

1 Screw for adjusting the closing strength 2 Valve for adjusting the closing speed **3** Valve for adjusting the latching speed



Approval certification

The DORMA ITS 96 is approved by the State Material Testing Authority, Dortmund, in accordance with EN 1154 A. Additionally, the model size EN 2 - 4 and EN 3 - 6 has CERTIFIRE approval for use on timber FD30 and FD60 doors (code ITT), when installed with the approved intumescent gasket set for FD30 or FD60 supplied by DORMA UK.

The length, width and hight of mortice for the body and slide channel must be increased by 2 mm to accommodate the gasket.

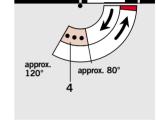
Specification text

Cam-action door closer integrated in the door leaf or frame, tested to EN 1154 A, with rapidly decreasing opening torque/force. Closing strength, closing speed and latch action adjustable. Nonhanded, with slide channel... (see pages 8 - 15)

Size □ EN 2 – 4 □ EN 3 – 6

Make DORMA ITS 96 **L** ITS96/2-4 ITS96/3-6





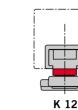
4 Cushioned limit stay

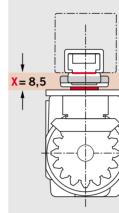
The DORMA ITS 96 concealed cam action door closer system is suitable for various door designs and different rebate clearance dimensions. This adaptability is achieved through the combination of different spindle lengths in the closer

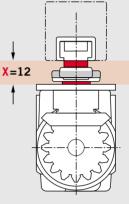
and the two different slide channel types available. Installation suggestions for the DORMA ITS 96 door closer system relating to the most common door types are available from DORMA on request. G 96 N G 96 EMF G 96 GSR/GSR-EMF

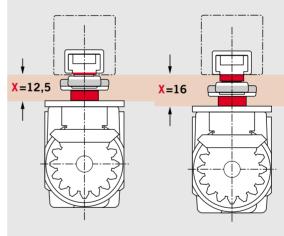
К 8

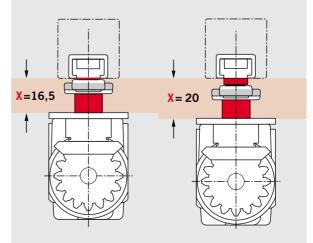
G 96 N G 96 EMF G 96 GSR/GSR-EMF



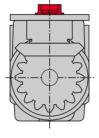




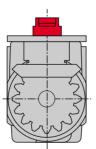




ITS 96 2–4 ITS 96 3–6



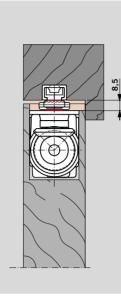
ITS 96 2–4 ITS 96 3–6 with 4 mm extended spindle



ITS 96 2–4 ITS 96 3–6 with 8 mm extended spindle

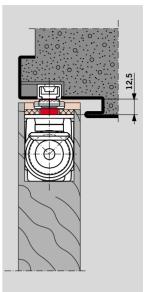


Timber door, flush-closing, clearance 8.5 mm, with ITS 96 EN 3–6 and slide channel G 96 N20 K8.



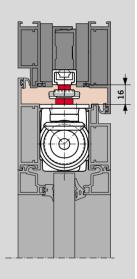
Timber door with steel frame, flush closing, clearance 12.5 mm, with ITS 96 EN 3–6, 4 mm extended spindle and slide channel G 96 N20 K8.

Please check dimensions carefully

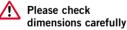


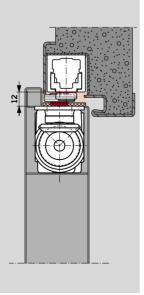
Tubular steel frame door, flush-closing, clearance 12 mm, with ITS 96 EN 3–6 and slide channel G 96 N20 K12.

Aluminium tubular frame door, flush-closing, clearance 16 mm, with ITS 96 EN 3–6, 4 mm extended spindle and slide channel G 96 N20 K12.

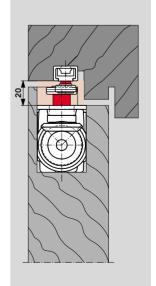


Hollow steel door with steel frame, over-rebated, clearance 12 mm, with ITS 96 EN 3–6, 4 mm extended spindle and slide channel G 96 EMF K8.



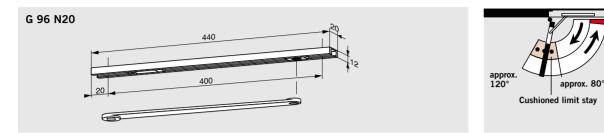


Timber door with solid frame, double rebated, clearance 20 mm, with ITS 96 EN 3–6, 8 mm extended spindle and slide channel G 96 N20 K12.

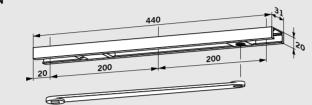


Slide channels

Standard model



G 96 N



The **DORMA G 96 N20** resp. **G 96 N** slide channel pack includes the arm, slide channel, slide block, cushioned limit stay and fixing screws, and can be combined with both door closer sizes in the DORMA ITS 96 range. The DORMA G 96 N20 slide channel can be adjusted to K8/K12.

Note:

If a hold-open unit (RF) is to be installed, use the G 96 N slide channel.

Approval certification

The G 96 N20 and G 96 N slide channel is tested to EN 1154 A in conjunction with the DORMA ITS 96. Additionally, it has CERTIFIRE approval for use on timber FD30 and FD60 doors (code ITT), when installed with the approved intumescent gasket set for FD30 or FD60 supplied by DORMA UK. The length, width and hight of mortice for the slide channel must be increased by 2 mm to accommodate the gasket.

Specification text

DORMA ITS 96 ... door closer (see pages 4 and 5) with slide channel

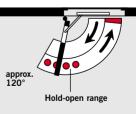
- □ G 96 N20 Version □ LH (ISO 6) K8/K12 □ RH (ISO 5) K8/K12
- □ G 96 N Version □ LH (ISO 6) □ RH (ISO 5) □ K8 □ K12

Make DORMA ITS 96 N

LTS96/2-4 ITS96/3-6

Hold-open unit





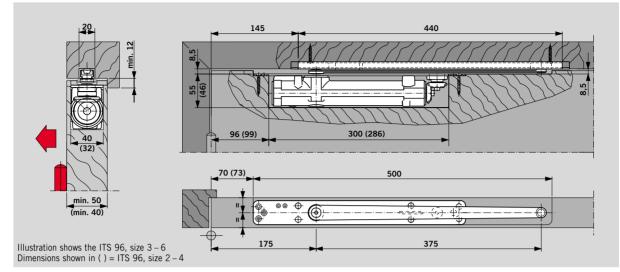
The **DORMA RF** hold-open unit enables doors to be securely held without any fall-back at precisely the required position up to an opening angle of approx. 120°. The hold-open function can be easily switched on and off by the user, and the release force can be adjusted to the door type concerned. The DORMA RF mechanism is non-handed and has been specifically designed for retrofitting to the G 96 N slide channel. Not for fire and smoke check doors.

Accessories

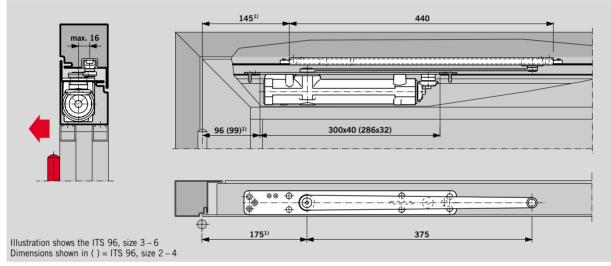
□ Hold-open unit DORMA RF Version □ K8 □ K12

LITS96RF/2-4 ITS96RF/3-6

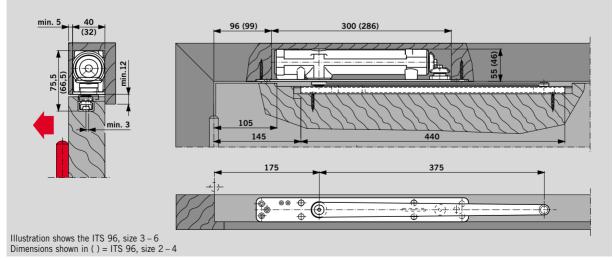




DORMA ITS 96 door closer with DORMA G 96 N20 slide channel in a **timber door** Example: Anticlockwise-closing (ISO 6) door; mirror image applies to clockwise-closing (ISO 5) doors.

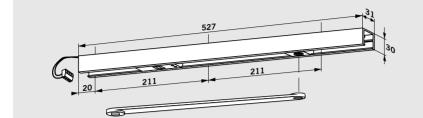


DORMA ITS 96 door closer with DORMA G 96 N20 slide channel in an **aluminium framed door** Example: Anticlockwise-closing (ISO 6) door; mirror image applies to clockwise-closing (ISO 5) doors. ¹⁾ Add 25 mm for aluminium profile frames with corner-angle reinforcement.



DORMA ITS 96 door closer with DORMA G 96 N20 slide channel in a timber door-transom fixing Example: Anticlockwise-closing (ISO 6) door; mirror image applies to clockwise-closing (ISO 5) doors.

Electro-mechanical hold-open



The **DORMA G 96 EMF** slide channel assembly enables the door to be held open securely at a pre-selected position without fall-back. The hold-open point can be adjusted within an opening angle of approx. 80° and 120°.

The hold-open point also

constitutes the max. door

stop accordingly).

opening angle (position door

Note:

In the event of an alarm or a fault in the power supply, the hold-open is released and the door is closed by the door closer. The release is triggered by a signal from external smoke detectors (e.g. DORMA RMZ-K/S or DORMA RM). The release force for the hold-open mechanism can be adjusted without tools and is rated to ensure that the door can also be easily released manually.

The DORMA G 96 EMF slide channel assembly comprises the arm, slide channel, slide block, electro-mechanical hold-open unit and fixing screws, and can be combined with both door closer sizes in the DORMA ITS 96 range.

In the case of particulary large and heavy doors (over 1250 mm), we recommended that DORMA EM hold-open magnets be employed instead of the electromechanical hold-open unit.

approx. 120°	approx. 80°
	pen range
	p q

Specification text

DORMA ITS 96 ... door closer (see pages 4 and 5) with G 96 EMF slide channel assembly, with integrated 24 V DC electro-mechanical hold-open, tested to EN 1155. Hold-open point (80° – 120°) and release force adjustable. Approved by the Institute for Building Technology, Berlin, for general use in hold-open systems. Acceptance inspection of the system is mandatory in Germany.

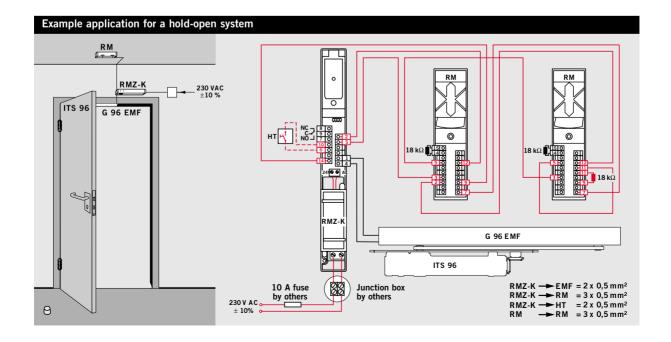
lechnical data	
Operating voltage:	24 V DC, ± 15%
Power input:	1.4 W
Rated for continuous duty:	100%
Release force:	Adjustable

Version

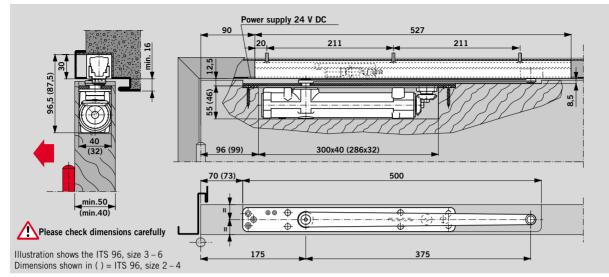
 01011
LH (ISO 6)
RH (ISO 5)
K8
K12

Make DORMAITS 96 EMF

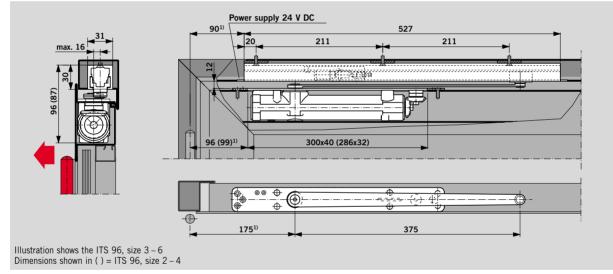
LITS96EMF/2-4 ITS96EMF/3-6







DORMA ITS 96 door closer with DORMA G 96 EMF slide channel assembly in a **timber door** Example: Anticlockwise-closing (ISO 6) door; mirror image applies to clockwise-closing (ISO 5) doors.



DORMA ITS 96 door closer with DORMA G 96 EMF slide channel assembly in an **aluminium framed door** Example: Anticlockwise-closing (ISO 6) door; mirror image applies to clockwise-closing (ISO 5) doors. ¹⁾ Add 25 mm for aluminium profile frames with corner-angle reinforcement.

F Approval certification

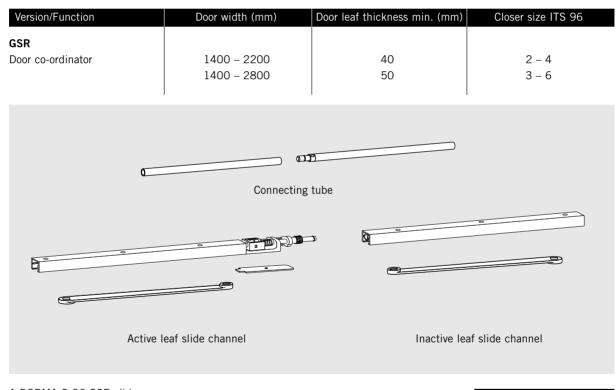
The DORMA ITS 96 EMF has been tested by the State Material Testing Authority, Dortmund, to EN 1155, Electrically Powered Hold-open Devices.

Regulations/Information

The use of hold-open devices may be subject to certain conditions – see page 25.

Door co-ordinator

The **DORMA G 96 GSR** slide channel with integral door co-ordinator for pairs of doors ensures that the active leaf always closes after the inactive leaf. The DORMA G 96 GSR slide channel door co-ordinator features a push rod clamping system. As this system operates independently of door closer hydraulics, it offers maximum safety and reliability. An overload release protects the door co-ordinator and the door set from damage. The DORMA G 96 GSR can be combined with both door closer sizes of the DORMA ITS 96 range.



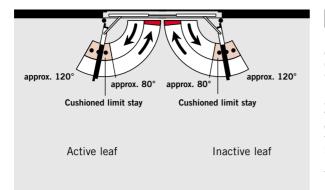
A DORMA G 96 GSR slide channel door co-ordinator encompasses an active leaf and an inactive leaf slide channel with cushioned limit stay, a connecting tube, a cover for the co-ordinator mechanism on the active leaf slide channel, and two arms.

The DORMA ITS 96 GSR has been tested to EN 1158, Door Co-ordinator Devices by the State Material Testing Authority,

Dortmund/Germany.

Approval certification





Specification text

DORMA ITS 96 ... door closer (see pages 4 – 5) with G 96 GSR slide channel, featuring integrated mechanical door co-ordinator using a push rod clamping system with overload release which operates independently of the closer hydraulics. Standard design – door leaves with no hold-open. Tested to EN 1158.

Approved by the Institute of Building Technology, Berlin, for general use in conjunction with fire and smoke check doors.

Version

□ K8 □ K12

Make

DORMA ITS 96 GSR

LITS96GSR/2-4 ITS96GSR/3-6

Example application			
	ITS 96 G 96 GSR	ITS 96	
Active leaf		Inactive leaf	
		l l	
		Ĭ.,	

Door co-ordinator with electro-mechanical hold-open

This door co-ordinator not only ensures the correct closing sequence of pairs of doors, but also allows the door leaves to be individually held open by an electromechanical device. The hold-open point for both door leaves lies between approx. 80° and 120°. **Note:**

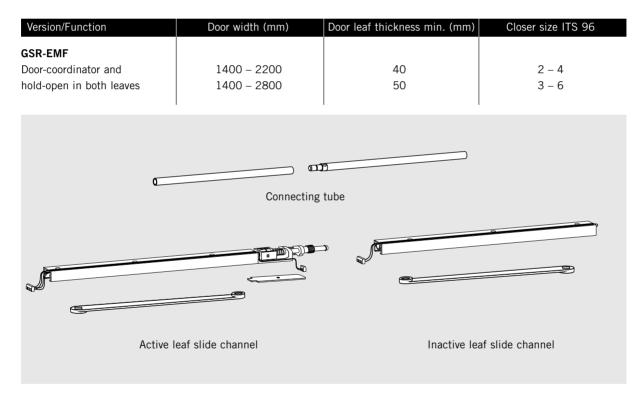
The hold-open point also constitutes the max. door opening angle – position door stop accordingly.

In the event of an alarm or a fault in the power supply, the hold-open is released and the door is closed by the door closer. The release is initiated by a signal from external smoke detectors (e.g. DORMA RMZ-K/S or DORMA RM) or other fire alarm. The release force for the

hold-open mechanism can be adjusted without tools and is rated to ensure that the door can also be easily released manually. The DORMA G 96 GSR-EMF slide channel door co-ordinator can be combined with both door closer sizes of the DORMA ITS 96 range. In the case of particulary large and heavy doors (over 2500 mm), we recommended that DORMA EM hold-open magnets be employed instead of the electromechanical hold-open unit.

Regulations/Information

The use of hold-open devices may be subject to certain conditions – see page 25.



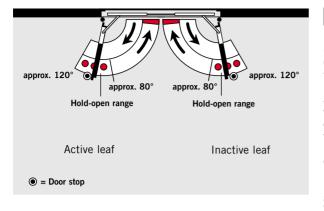
A DORMA G 96 GSR slide channel door co-ordinator encompasses an active leaf and an inactive leaf slide channel with electromechanical hold-open, a connecting tube, a cover for the co-ordinator mechanism on the active leaf slide channel, and two arms.

Technical data	
Operating voltage:	24 V DC, ± 15%
Power input:	2.8 W
Rated for continuous duty:	100%
Release force:	Adjustable

Approval certification

The DORMA ITS 96 GSR-EMF has been tested by the State Materials Testing Authority, Dortmund, to EN 1158, Door Co-ordinator Devices, and EN 1155, Electrically Powered Hold Open Devices.





Specification text

DORMA ITS 96 ... door closer (see pages 4 - 5) with G 96 GSR-EMF slide channel, featuring integrated mechanical door co-ordinator using a push rod clamping system with overload release which operates independently of the closer hydraulics, with integrated electro-mechanical hold-open, 24 V DC. Hold-open point (80° -120°) and release force adjustable. Tested to EN 1158 and EN 1155.

Approved by the Institute of Building Technology, Berlin, for general use in hold-open systems. Acceptance inspection of the system is mandatory in Germany.

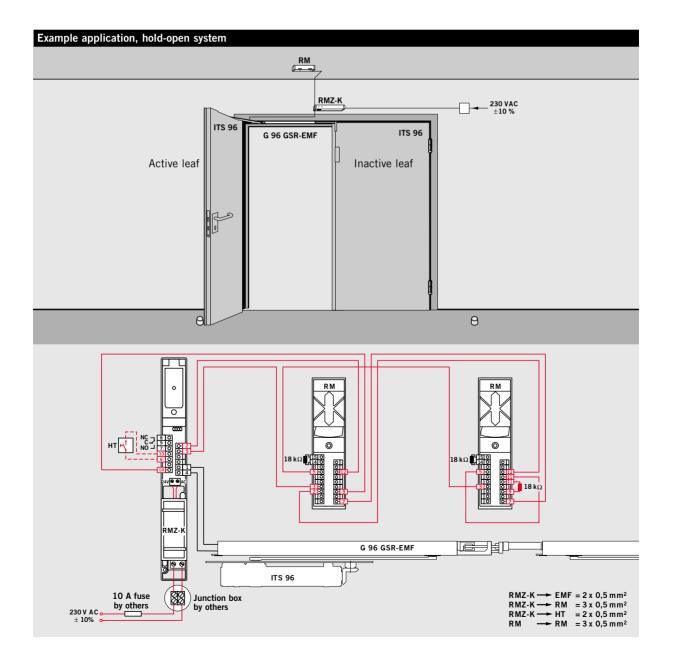
Version

□ K8 □ K12

Make

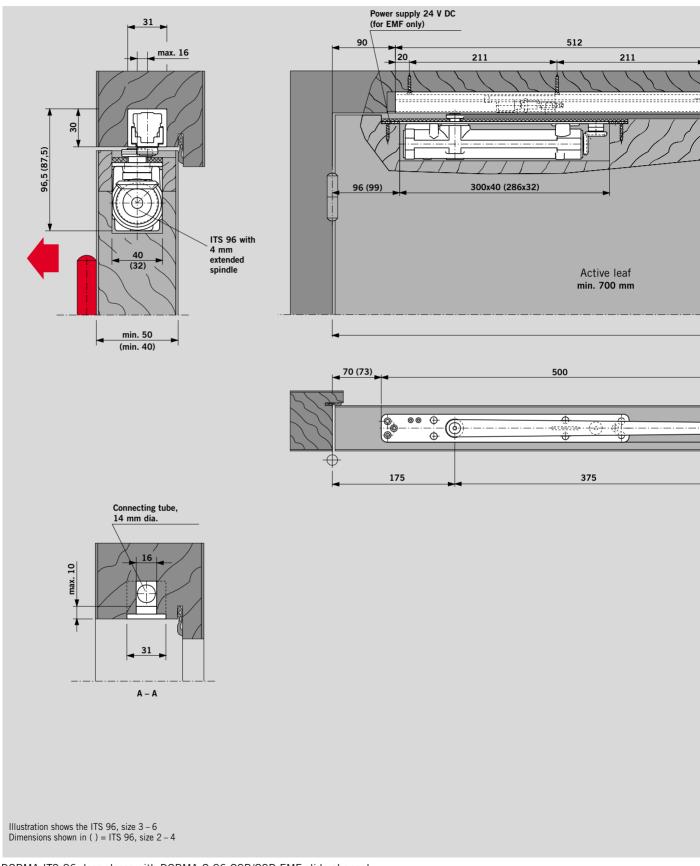
DORMA ITS 96 GSR-EMF

LITS96GSR-EMF/2-4 ITS96GSR-EMF/3-6



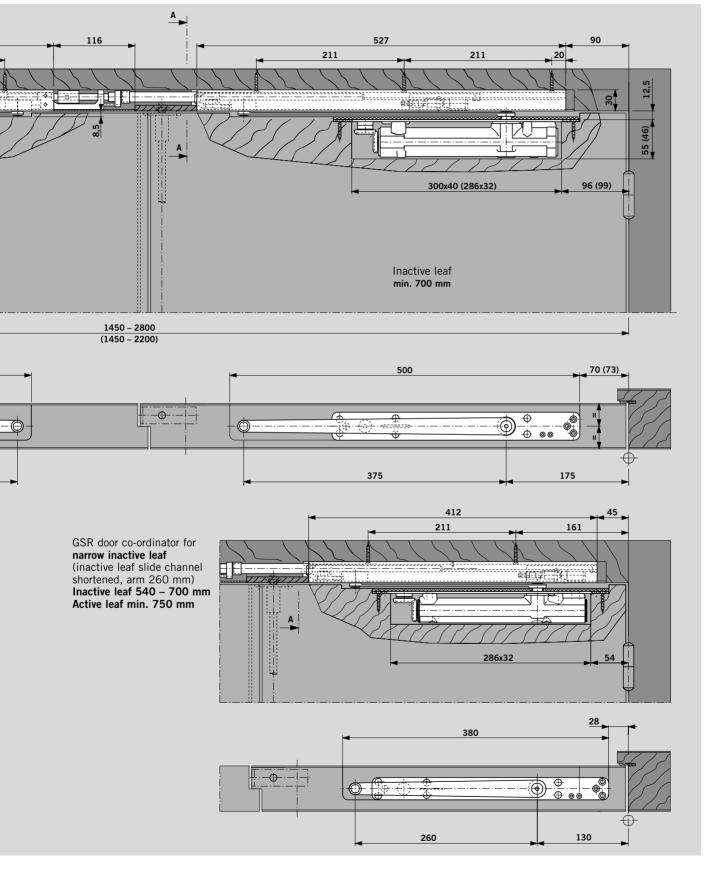
Slide channel door co-ordinators

Installation in a timber door



DORMA ITS 96 door closer with DORMA G 96 GSR/GSR-EMF slide channel Example: Anticlockwise-closing (ISO 6) active leaf; mirror image applies to clockwise-closing (ISO 5) active leaf.

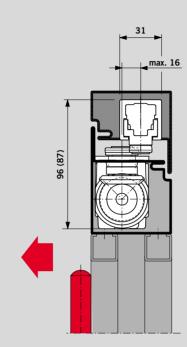


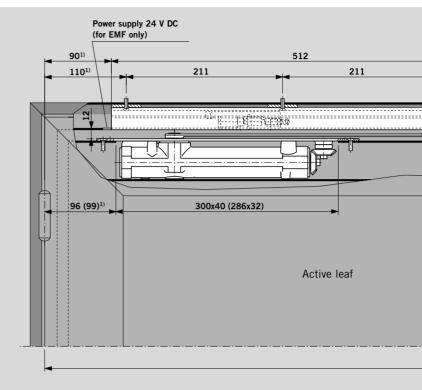


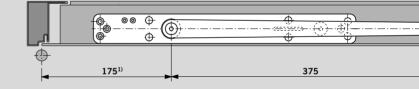
F When installed in fire and smoke check doors, ensure that the DORMA MK 397 carry bar is also fitted.

Slide channel door co-ordinators









¹⁾ Profile frames with corner angle reinforcement

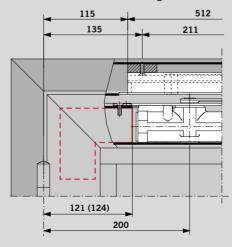
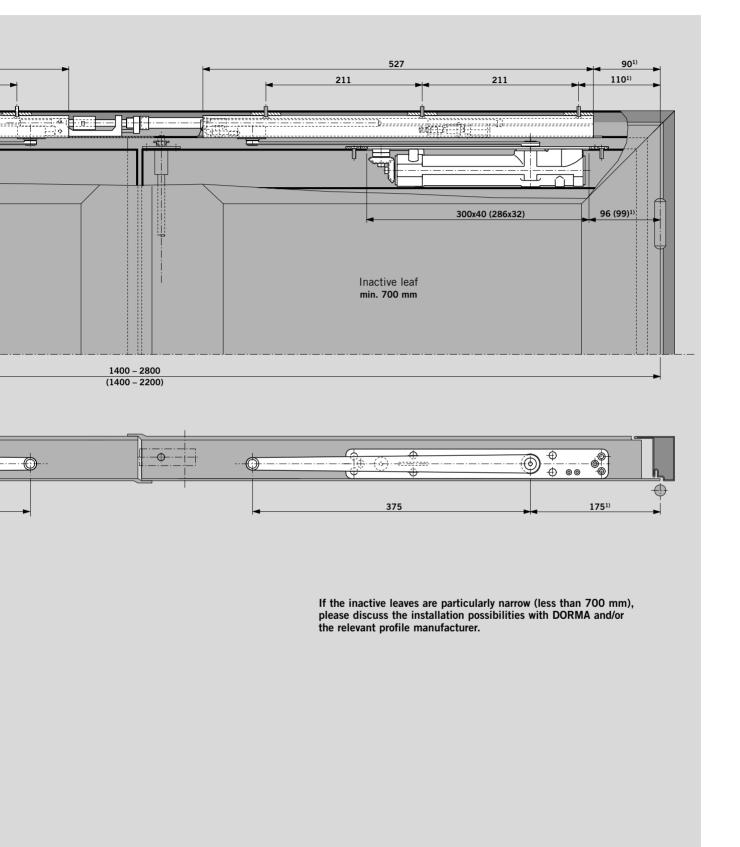


Illustration shows the ITS 96, size 3-6Dimensions shown in () = ITS 96, size 2-4

DORMA ITS 96 door closer with DORMA G 96 GSR/GSR-EMF slide channel Example: Anticlockwise-closing (ISO 6) active leaf; mirror image applies to clockwise-closing (ISO 5) active leaf.





F When installed in fire and smoke check doors, ensure that the DORMA MK 397 carry bar is also fitted.

Frame and ceiling-mounted smoke detectors

The DORMA RM7-K/S framemounted smoke detector and the DORMA RM frame and ceiling-mounted smoke detector provide the ideal complement to the successful, service-proven DORMA ITS 96 range of preventive fire protection products. 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 doors -

whatever the situation. The innovative design of these devices has ensured a high degree of compactness so that there are no installation or positioning problems. And their attractive Softline styling blends in with any surroundings.

Approval certification

DORMA RMZ-K/S and DORMA RM units have been approved by the German Institute for Building Technology, Berlin, as holdopen release devices.

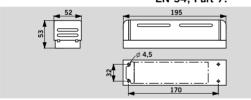
DORMA RMZ-K/S

Frame-mounted smoke detector with stabilised power supply unit. This detector is available as an Enhanced or Standard model. In the event of an alarm or a power failure, this unit deenergises all the hold-open devices connected to it (release function).



DORMA RM

Designed as a smoke switch; actuates a floating (volt-free) change-over contact in the event of an alarm or power failure. Also suitable as an add-on smoke detector for the DORMA TS 73 EMR, TS 93 EMR and RMZ. Tested by VdS Cologne to EN 54, Part 7.



Specification texts

RMZ-K/S

Smoke detector for frame mounting with integrated power supply unit and optical smoke sensor. For release of DORMA hold-open devices. With connections for further smoke detectors. Floating (volt-free) changeover contact and connection terminals for external manual release. Input voltage 230 V AC Operating voltage 24 V DC Approved by the Institute for Building Technology in Berlin as a hold-open release device.

Colour

□ silver □ dark brown white, like RAL □ 9010 □ 9016 □ stainless steel □ polished brass

□ special colour __ (like RAL __)

Model

Enhanced model with optional connection of additional detectors, external manual release and floating (volt-free) alarm contact.
 Make DORMA RMZ-K

□ Standard model with optional connection of additional 2-wire detectors Make DORMA RMZ-S



Data and f	eatures	RMZ-K	RMZ-S	RM	
Functions Smoke detector Release device Power supply unit		•	•••	•	
Smoke detection	Scattered light principle (optical sensor)	•	٠	•	
Fixing	Frame-mounted Ceiling-mounted	•	• -	•	
Connection of other detectors	2-wire smoke switches	•	•	•	
Total installed for hold-open and other dete	device ectors in W	4.4	4.4	Depends on power supply unit	
Power input o internal detec		0.5	0.5	0.6	
Indicators	Alarm – red LED Armed – green LED	•	• •	•	
Input voltage		230 V AC 230 V AC ± 10 %		24 V DC +15%, -10%	
Output voltage		24 V DC	24 V DC	24 V DC	
Detector opera	ating voltage	24 V DC	24 V DC	24 V DC +15%, -10%	
Input current power supply	(max.) with external unit, in A	-	-	2	
Current input	(max.) in mA	111	91	25	
Floating change- over contact Switching current (max.) Switching current (max.) Switching capacity (max.)		60 V DC/ 25 V AC 2 A 60 W	-	60 V DC/ 25 V AC 2 A 60 W	
Automatic reset can be change to manual reset		•	•	•	
Test port for f	unctional checking	•	•	•	
Connection terminals for external manual release		•	_	•	
Degree of protection		IP 20 IP 20		IP 20	
Ambient temp	perature in °C	-15, +60	-15, +60 -15, +60 -		
Weight in kg		0.6 0.6		0.4	
Dimensions Length in mm Overall depth Height		336 336 50 50 30 30		195 53 52	

• yes - no

For more detailed information, see RMZ/RM brochure

RM

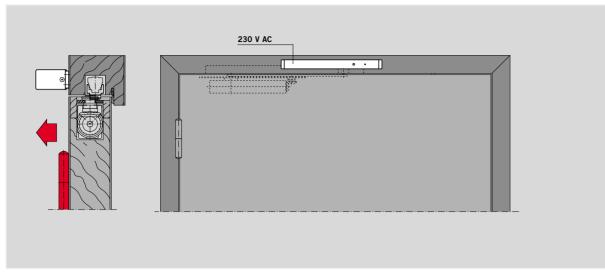
Non-directional, universal optical smoke detector (24 V DC) for frame and ceiling installation. Can be employed as smoke switch and monitoring device for hold-open devices. With connections for further smoke detectors, floating (volt-free) change-over contact and connection terminals for external manual release. Approved by the Institute for Building Technology, Berlin for general use as a holdopen release device and tested by the VdS Cologne to EN 54 Part 7.

Colour

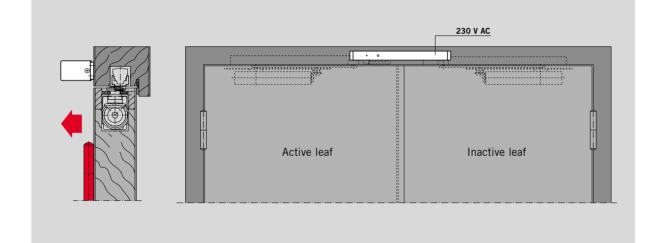
□ silver □ dark brown white, like RAL □ 9010 □ 9016 □ stainless steel □ polished brass □ special colour _ (like RAL_)

🖳 RM

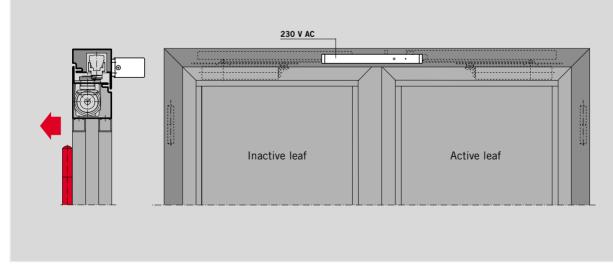




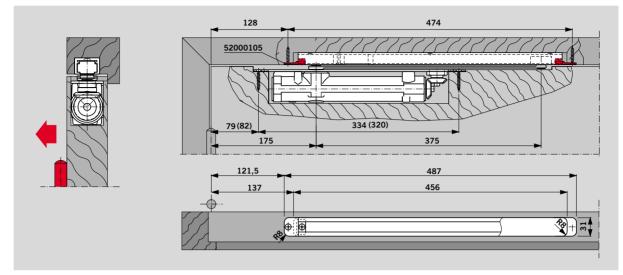
RMZ-K/S frame-mounted smoke detector on the pull side connected to an ITS 96 EMF Example: Anticlockwise-closing (ISO 6) door; mirror image applies to clockwise-closing (ISO 5) doors.



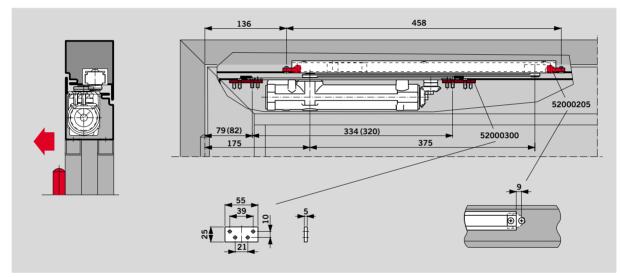
RMZ-K/S frame-mounted smoke detector on the pull side connected to an ITS 96 GSR-EMF Example: Anticlockwise-closing (ISO 6) active leaf; mirror image applies to clockwise-closing (ISO 5) active leaf.



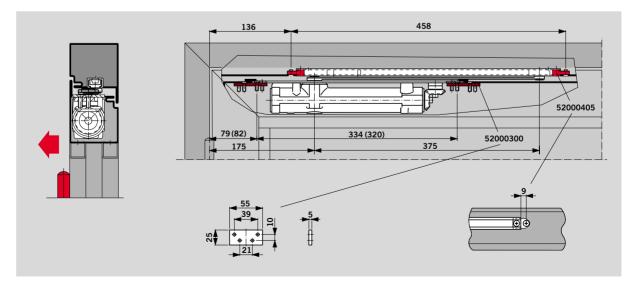
RMZ-K/S frame-mounted smoke detector on the push side connected to an ITS 96 GSR-EMF Example: Anticlockwise-closing (ISO 6) active leaf; mirror image applies to clockwise-closing (ISO 5) active leaf.



Fixings for G 96 N in conjunction with **timber doors** Example: Anticlockwise-closing (ISO 6) door; mirror image applies to clockwise-closing (ISO 5) doors.



Fixings for ITS 96 and G 96 N in conjunction with aluminium framed doors Example: Anticlockwise-closing (ISO 6) door; mirror image applies to clockwise-closing (ISO 5) doors.



Fixings for ITS 96 and G 96 N20 in conjunction with **aluminium framed doors** Example: Anticlockwise-closing (ISO 6) door; mirror image applies to clockwise-closing (ISO 5) doors.



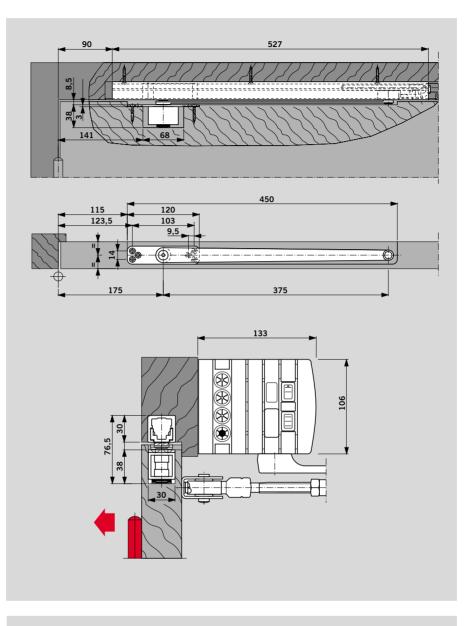
If the DORMA G 96 GSR door co-ordinators are required to operate independently of the ITS 96 door closers, e.g. in combination with the ED 200 automatic swing door operator, the connection between the door co-ordinator and the door leaf is provided by means of GSR pivot blocks.

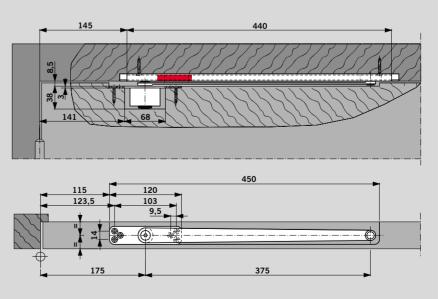
Specification text

Pivot bearing for closer-independent door co-ordination with DORMA G 96 GSR door co-ordinators.

Make

DORMA ITS GSR pivot block





The pivot bearing used in conjunction with the G 96 N20 slide channel also acts as a **cushioned limit stay**. Routing jig DORMA offers a routing jig as a useful accessory. It enables accurate cutting of the requisite recesses in the door leaf and/or door frame using a hand-held router. The routing jig consists of an aluminium base frame into which fit the templates for the door closer and the slide channel including the fixing accessories. Further accessories available: Carbide tip cutting tool, 16 mm dia., 150 mm or 170 mm long. The routing jig is suitable both for flush closing and over-rebated timber doors.

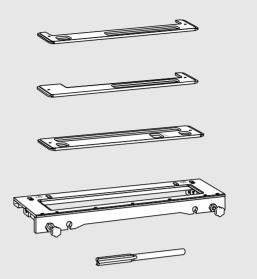
Routing template for ITS 96 EN 3 – 6

Routing template for ITS 96 EN 2 - 4

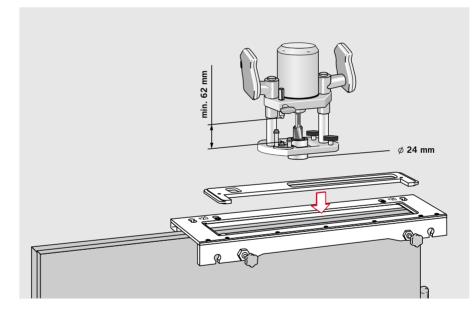
Routing template for slide channel G 96 N and fixing accessories frame

Base frame

Carbide tip cutting tool 16 mm dia., 150 or 170 mm long



The router must have a plunging stroke of at least 62 mm and be fitted with a guide bush of 24 mm dia.





The use of hold-open devices may be subject to certain conditions. These usually deal particularly with the relevant acceptance, routine inspection and maintenance requirements.

The information given on this page is designed to inform all relevant persons of the most important measures to be implemented in order to ensure best practice governing the operation of hold-open systems.

Further details can be found in the following documents:

- Guidelines for hold-open systems, published by the German Institute for Building Technology, Berlin.
- Building Regulations, England and Wales
- Other national building regulations
- EN 1155

1 General

1.1 In respect of doors etc. which are held open by hold-open systems, the area needed for closure must be kept permanently free of obstructions. This area should be clearly indicated by means of lettering, floor markings or similar. If necessary, structural measures may need to be taken in order to ensure that wiring/ducting, stored goods or structural components (e.g. false ceilings or other components) do not fall down into the area to be kept clear.

1.2 As far as possible, smoke detectors should be used for hold-open systems. Smoke detectors should be used for hold-open systems for doors etc. in emergency exits and escape routes.

1.3 All hold-open devices should allow manual release without their operational readiness being adversely affected. Door closers with electro-magnetic hold-open systems can be released by pressing lightly on the door leaf. If hold-open magnets or free-swing door closers are used, the release function is triggered by pressing a switch. The switch must be located in the immediate proximity of the door and must not be covered when the door is held open.

2 Commissioning

2.1 After the system has been fitted ready for use on site, it should be commissioned to check that its operation is problem-free and that its installation complies with all relevant regulations. The commissioning should only be performed by qualified technical personnel.

3 Routine Inspection

3.1 The operator should keep the hold-open system in a permanently fit state for use and must inspect it at least once a month to ensure its functional integrity.

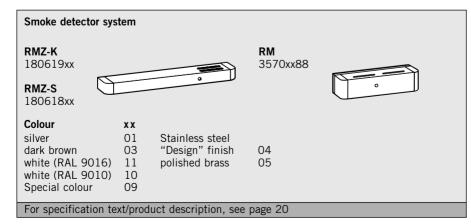
3.2 In addition, it is the responsibility of the operator to ensure that all devices are checked and maintained/ serviced to ensure their combined functional integrity, this to be performed at least once a year, unless a shorter time period is stipulated in the national regulations. This inspection and servicing activity should only be carried out by a specialist or suitably qualified person.

3.3 The scope, result and time of the routine inspections should be recorded, and these records should be retained by the operator.

For exception to the second description					EN	96 2 - 4 52400150 3 - 6 52250150 4	EN 3 -	mm led e - 4 410150	EN 3 - 522	mm ed e 4 420150
For specification text/product description, s	see page	-	_	-		4		4	ľ	4
G 96 N20	K8/K12	2 —	52003705200380	- 8		-		-		-
G 96 N	K8 	L R L R	 5200190 5200200 5200220 5200220 5200230 	1 1 1		-		-		-
G 96 EMF	K8 	L R	□ 5200150 □ 5200150 □ 5200160 □ 5200240 □ 5200250	1 1 1 1		-		-		
G 96 GSR	5 K12	60 ¹⁾		$\frac{1}{1}$ 12		2x 2x		2x 2x		2x 2x
G 96 GSR-EMF	K8 2	60 ¹⁾	5 200170	1 1 1 1		2x 2x		2x 2x		2x 2x
Fixing plates for ITS 96			5200030	0 22	2	#	#	ŧ	#	ŧ
Routing jigRouting template forITS 96 EN 3 - 652001000Routing template forITS 96 EN 2 - 452000900Routing template forG 96 Nand baseframe52000700Product description, see page 24			150 r 170 r	nm	5200	mm dia. 1200 1300	<pre> [] = # = L = R = ¹⁾ GS for 54 (in</pre>	\frown	annel s al acces LH/anti closing RH-cloo closing co-ordin e leaf of mm af slide	eparate sory clockwis (ISO 6) ckwise (ISO 5) ator channe



RF hold-open unit for G 96 N	RF hold-open unit for G 96 GSR, inactive leaf	Fixings for mounting the G 96 N on timber doors	Fixings for mounting the G 96 N on aluminium doors	Fixings for mounting the G 96 N20 aluminium doors	Pivot bearing	Carry bar MK 397	
K8/K12 52003600	K8/K12 52003500	52000105	52000205	52000405	52003400 ¹⁾	470029xx ²⁾	
8	-	22	22	22	23	-	
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¹⁾ Pivot bearing with 4 mm and 8 mm extended spindle available on request

²⁾ MK 397 Colour xx galvanised 00 special colour 30





DORMA GmbH + Co. KG

Postfach 4009 D-58247 Ennepetal Breckerfelder Straße 42–48 D-58256 Ennepetal Tel. +49(0)2333/793-0 Fax +49(0)2333/793495 www.dorma.com

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