## dormakaba 🚧



# TS 99 FL/FLR

EN 2-5

Free-swing slide channel door closer in Contur design

## For easy use of fire and smoke check doors combined with safe closing in an emergency

The TS 99 FL in the Contur design is a hold-open device with a free-swing function from a door opening angle of >0°, which, combined with a smoke detector system (e.g. RMZ), can be used as a hold-open system for fire doors. An integrated solution, i.e. hold-open device with free-swing function from a door opening angle of >0°, plus built-in smoke detector system, is also available in the form of the TS 99 FLR or TS 99 FLR-K. In both systems, the door can be operated without resistance thanks to their free-swing feature. In the event of an alarm or power failure, however, the door is reliably closed by the re-instated action of the door closer. Certified to ISO 9001.

#### Plus points

#### For the trade

- Ideal complement to the product range
- Clear range structure for easy stock management

#### For the installer/fabricator

- · Easy and quick to fit
- Flexible application suitability thanks to standard leaf or overhead transom installation

#### For the architect/specifier

- · Meets legal requirements for barrier-free building
- Universally suitable for single or double doors
- Uniform appearance matching all products of the dormakaba Contur design

#### For the user

- Free-swing function from a door opening angle of >0°
  Resistance-free opening of doors in passive/preventive
- fire protection applications
- Maximum degree of user safety

#### F Approval certification

#### TS 99 FL

The TS 99 FL is approved and certified by the MPA NRW, Dortmund, to EN 1155. When using the TS 99 FL in a transom-mounted arrangement, a certificate of compliance in conjunction with the relevant fire and smoke check door is mandatory.

#### **TS 99 FLR**

The TS 99 FLR is approved and certified by the MPA NRW, Dortmund, to EN 1155. Approved by the German Institute for Building Technology, Berlin, for use as a hold-open system. An acceptance inspection is mandatory. Certificate of compliance in conjunction with the fire and smoke check door concerned is additionally required.

#### TS 99 FLR-K

The TS 99 FLR-K is certified and approved by the MPA NRW, Dortmund, to EN 1155. Approved by the German Institute for Building Technology, Berlin, for use as a hold-open system. An acceptance inspection is mandatory.

#### Note

According to the regulations governing hold-open systems issued by the Institute of Building Technology (DIBt), Berlin, a manual release switch (e.g. dormakaba HT) must be provided for free-swing door closers. This switch must be red and carry the inscription "Close Door". The switch must be located in the immediate vicinity of the door and must not be hidden by the opened door.

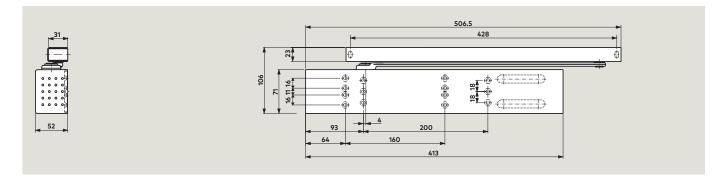
Data and feat	tures		TS 99 FL	TS 99 FLR	TS 99 FLR-K	
Adjustable sp strength setti	-	Size		EN 2-5		
Standard doc	ors	1250 mm		•		
Fire and smol doors	ke check	≤ 1250 mm		٠		
Non-handed				•		
Slide channel				•		
Closing speed	l adjustable	at valve		•		
Latching action		•				
Cushioned lim	nit stay, me	chanical	0			
Free-swing fu a door openin				•		
Weight in kg			5.2	5.9	5.7	
Dimensions ir (without slide		Length Overall depth Height	413 52 71	785 52 71	413 52 71	
Door closer co	ompliant wi	_		•		
Hold-open de EN 1155				•		
Hold-open device compliant with DIN EN 14637			under preparation			
$\boldsymbol{CE}$ mark for b	uilding proc	lucts	٠		•	
Functions	Smoke de Release c Power su	levice	- • -		•	
Smoke detection	Scattere principle	d light Optical sensor	-		•	
Connection o	Connection of other detectors				•	
Total installed load (max.) for further detectors in W			-	7.8		
LED indicators Alarm			-		•	
	Standby		-		•	
	Maintena Contami		_		•	
Input voltage			24 V DC ±15%	230 V AC +10%/-15%		
Output voltage			-	24 V DC		
Power consumption in W			2	14.8		
Floating change-over contact, safety extra low voltage (SELV)			-	24 V AC/DC 1 A		
Reset	Manual r		-		•	
Connection terminals for external manual release			-		•	
Degree of pro			_	IF	20	

● yes – no O optional

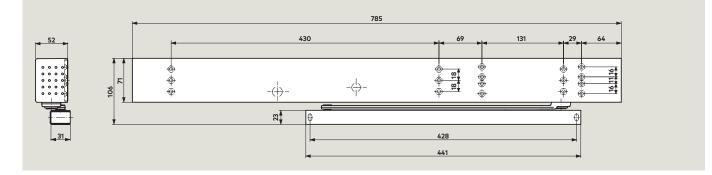
#### TS 99 FLR / FLR-K

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.

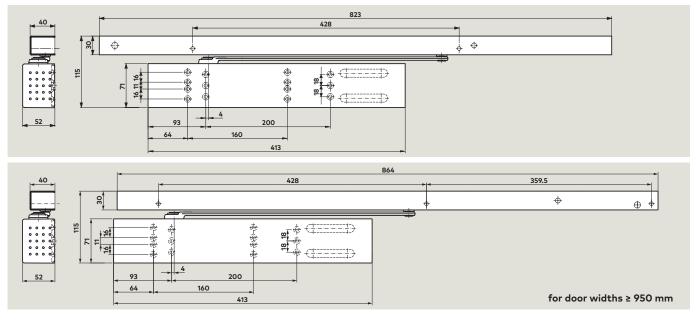
## TS 99 FL



## **TS 99 FLR**

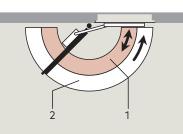


## **TS 99 FLR-K**



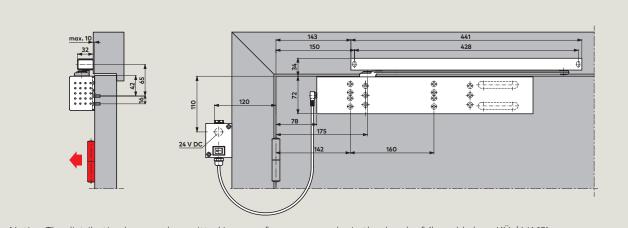
#### Free-swing function from an opening angle > 0°

As the door is opened, the free-swing function is activated from an opening angle of >0°. The free-swing function enables the door to be opened with ease by reducing the amount of resistance encountered by the user. The door remains freely operable and is not automatically closed, facilitating access in both directions in heavily frequented zones and passageways. In the event of a fire or power failure, the door is automatically and safely closed by the door closer. This system is ideal for ensuring the closure of fire and smoke check doors in senior homes, centres for the disabled, hospitals and clinics.



- Free-swing range
   Fully controlled closing action (mechanical)

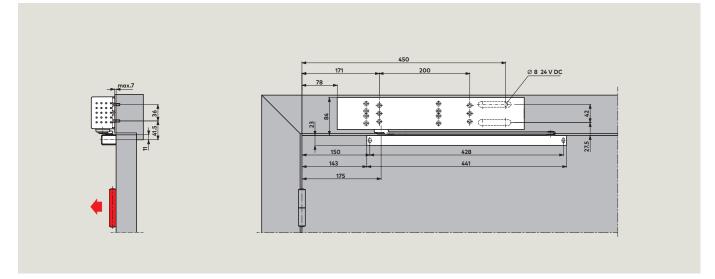
## TS 99 FL – Applications and fixing



Notice: The distribution box may be omitted in case of a power supply via the door leaf (by cable loop KÜ / LK 12).

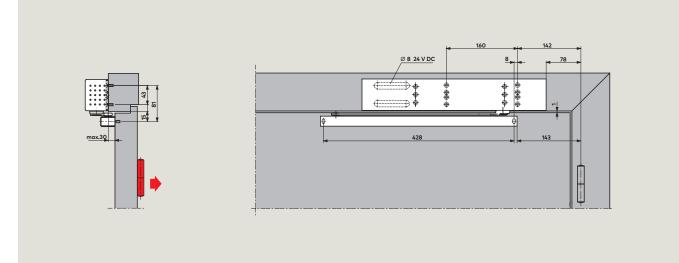
#### Door closer **TS 99 FL in standard application** (door leaf fixing)

Examples: Anticlockwise-closing (ISO 6/LH) door; mirrored arrangements apply to clockwise-closing (ISO 5/RH) doors



#### Door closer **TS 99 FL in frame mounted** (transom fixing)

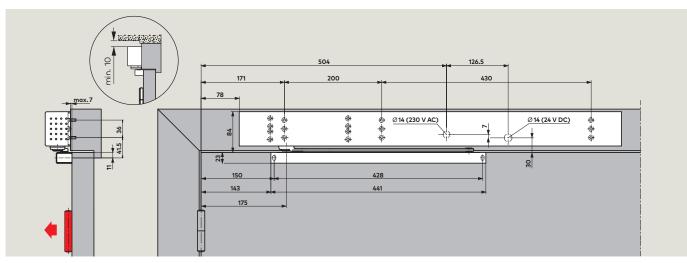
Examples: Anticlockwise-closing (ISO 6/LH) door; mirrored arrangements apply to clockwise-closing (ISO 5/RH) doors



Door closer **TS 99 FL in frame mounted on push side** (transom fixing)

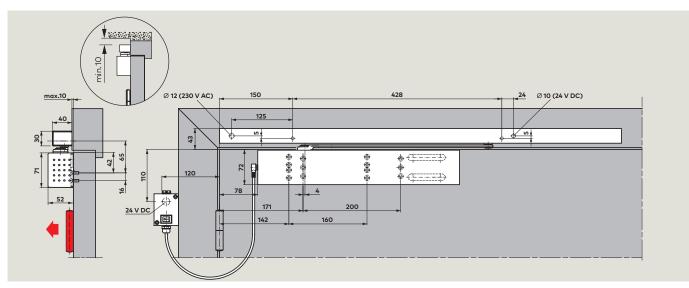
Examples: Anticlockwise-closing (ISO 6/LH) door; mirrored arrangements apply to clockwise-closing (ISO 5/RH) doors

## TS 99 FLR – Applications and fixing



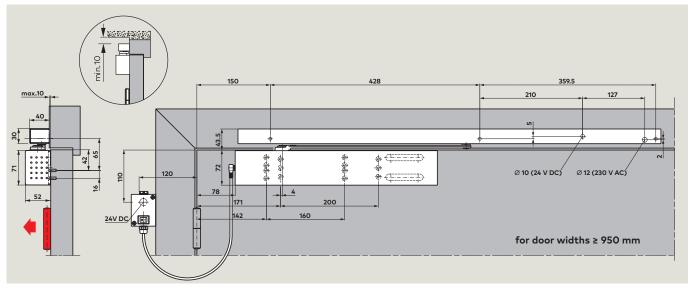
#### Door closer **TS 99 FLR**

Examples: Anticlockwise-closing (ISO 6/LH) door; mirrored arrangements apply to clockwise-closing (ISO 5/RH) doors



#### Door closer **TS 99 FLR-K**

Examples: Anticlockwise-closing (ISO 6/LH) door; mirrored arrangements apply to clockwise-closing (ISO 5/RH) doors



#### Door closer **TS 99 FLR-K**

Examples: Anticlockwise-closing (ISO 6/LH) door; mirrored arrangements apply to clockwise-closing (ISO 5/RH) doors

## TS 99 FL – Application on double doors

The modular TS 93 GSR system also enables the use of the TS 99 FL EN 2-5 on the active leaf of double doors.

As the door is opened, the free-swing function is activated from an opening angle

of >0° at the active leaf. The door remains freely operable and is not automatically closed, which facilitates access in doors located in heavily frequented areas.

The GSR system ensures the closure of double doors in the correct sequence: first the inactive leaf then the active leaf. The system operates independently of the door closer hydraulics using a push rod clamping arrangement with protective overload release.

The door release/closer activator mechanism is integrated in the slide channel.

#### TS 99 FL GSR – Door co-ordinator with freeswinging active leaf

The GSR system ensures the closure of double doors in the correct sequence: first the inactive leaf then the active leaf.

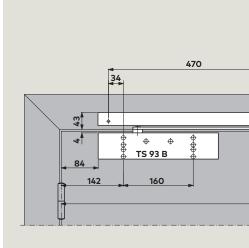
#### TS 99 FL GSR-EMF 1 – Door co-ordinator with free-swinging active leaf and electro-mechanical hold-open of the inactive leaf

The GSR-EMF 1 system ensures the closure of double doors in the correct sequence: first the inactive leaf then the active leaf. It also facilitates the combined hold-open of both door leaves. The inactive leaf can be held at an angle between 80° and 130°, and the active leaf is held open at any angle up to max. 150° by the door co-ordinator.

In the event of an alarm or power failure, the holdopen is released and the door co-ordinator ensures that the door leaves close in the correct sequence. The release signal is emitted by external smoke detectors (e.g. RMZ in the Contur design). RM-N units can also be connected as a second and third detector. With adjustable pull-off force (no tools required), the hold-open can also be readily released by hand.

#### Note

The hold-open point of the inactive leaf is always located at the maximum door opening angle – install a door stop at this position.



#### TS 99 FL GSR-EMR 1 -

#### Door coordinator with free-swinging active leaf, electro-mechanical hold-open of the inactive leaf and integral smoke detector

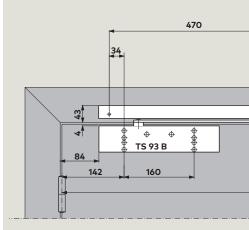
The GSR-EMR 1 system ensures the closure of double doors in the correct sequence: first the inactive leaf then the active leaf. It also facilitates the combined hold-open of both door leaves. The inactive leaf can be held at an angle between 80° and 130°, and the active leaf is held open at any angle up to max. 150° by the door co-ordinator.

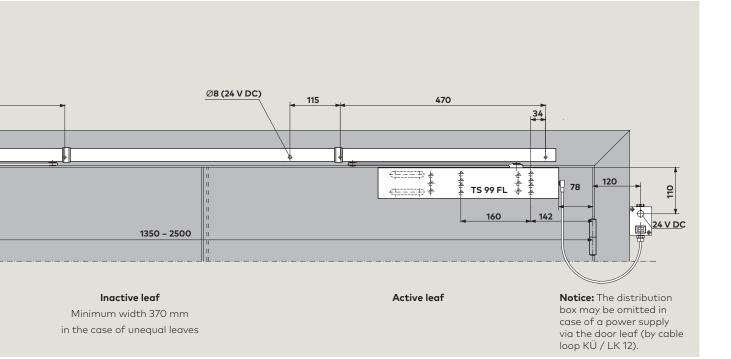
In the event of an alarm or power failure, the holdopen is released and the door co-ordinator ensures that the door leaves close in the correct sequence. Hold-open release is initiated by the GSR-EMR via a smoke detector integrated in the door coordinator. RM-N units can also be connected as a second and third detector. With adjustable pull-off force (no tools required), the hold-open can also be readily released by hand.

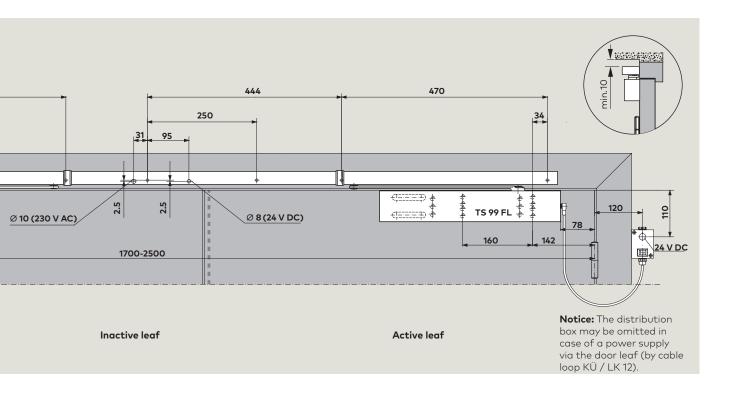
#### Note

The hold-open point of the inactive leaf is always located at the maximum door opening angle – install a door stop at this position.

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.



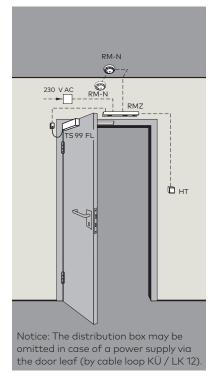


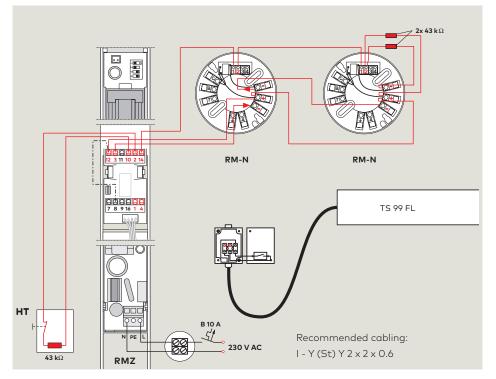


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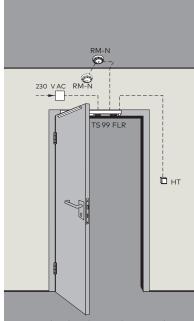
## TS 99 FL – Application examples Hold-open system



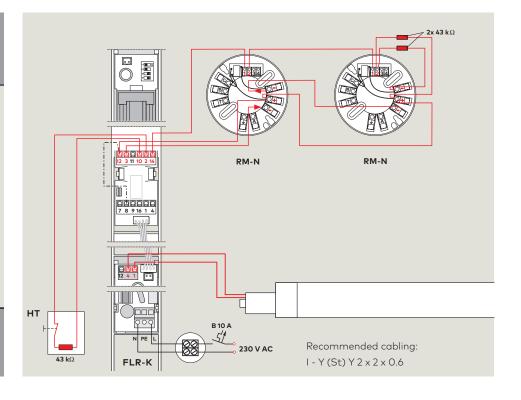




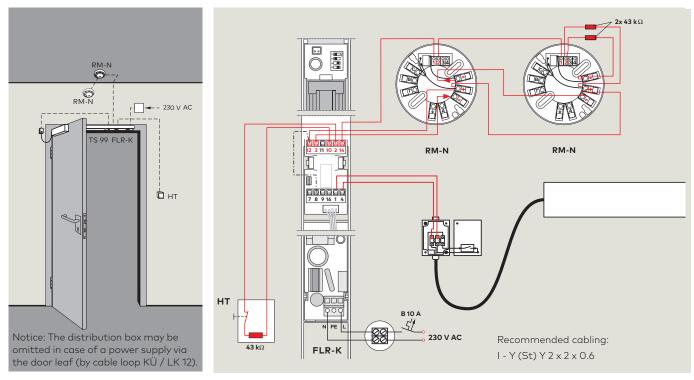
#### TS 99 FLR + 2x RM-N



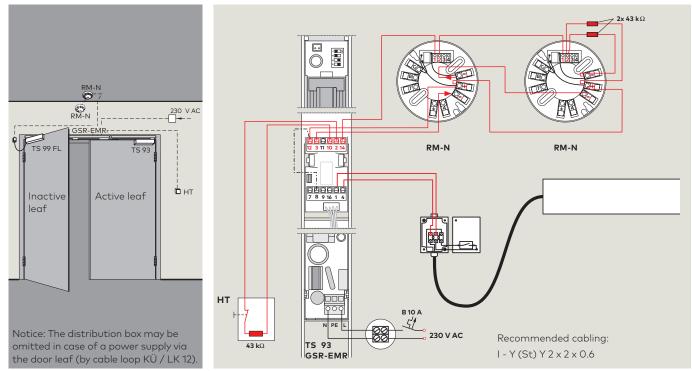
Notice: The distribution box may be omitted in case of a power supply via the door leaf (by cable loop KÜ / LK 12).



#### TS 99 FLR-K + 2x RM-N



#### TS 99 FL GSR-EMR 1 + 2x RM-N



## Smoke detectors

The RMZ in the Contur design and RM-N smoke detectors provide the ideal complement to the TS 99 FL 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 holdingopen fire and smoke check doors – whatever the situation.

#### RMZ

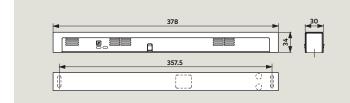
The RMZ smoke detector in the Contur design provides a 24 V DC supply for all the hold-open devices connected to it.

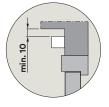
In the event of an alarm or power failure, it de-energizes the devices (release function). It has an automatic reset which can be switched to manual mode if required.

A floating (no-volt) change-over contact and connections for both further detectors and for an external manual release device are also provided.

The unit is available in the RMZ version with a stabilised power pack, or in the RMZ DCW® version without a power pack for integration in building management and control systems via a DCW® bus and the TMS door management system.

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.





Data and features	i	RMZ	RM-N
Functions	Smoke detector Release device Power supply unit	•	•  
Smoke detection	Scattered light principle (optical sensor)	•	•
Fixing	Lintel or transom-mounted Ceiling-mounted	•	-
Connection of oth	•	_	
Total installed load device and other d	9.8	-	
Power consumptic detectors in W	on of internal	1.2	0.65
LED indicators	Alarm Standby Maintenance due Contaminated	• • •	• - -
Input voltage		230 V AC ± 10 %	24 V DC +15%, -10%
Output voltage	24 V DC	-	
Detector operatin	24 V DC +15%, -10%	24 V DC	
Input current (max	75	20	
Floating (no-volt) Safety extra low v	24 V AC/DC 1 A	30 V AC/DC 1 A	
Reset	Automatic Can be changed to manual reset <sup>1)</sup>	•	•
Functional check	Smoke detection	٠	٠
Connection termir for external manua	•	_	
Degree of protect	IP 30	IP 43	
Ambient temperat	-20, +40	-10, +60	
Weight in kg		0.25	0.15
Dimensions in mm	Length Overall depth Height	379 34 30	ø 100 44
Compliant with EN	•	•	
€ mark for buildin			-

• yes – no

<sup>1)</sup> Required in connection with TS 99 FL and ITS 96 FL

#### RM-N

The RM-N smoke detector ensures the early detection both of smouldering fires and open fires with smoke evolution. It can be connected to all dormakaba hold-open systems.



#### F Approval certification

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

## Hold-open systems regulations/information

The use of hold-open systems is subject to special regulations based on official approval requirements. These relate in particular to the final inspection (acceptance), continuous monitoring and maintenance. The regulations and instructions provided below are intended as an aid, pursuant to statutory regulations that apply e.g. in Germany, to ensure that all participants are properly informed of the most important requirements that relate to the installation and operation of hold-open systems.

1.2 Wherever possible, smoke detectors

should be used for hold-open systems.

For hold-open systems for fire doors in

emergency escape routes, smoke

detectors must be used.

Further information can be found in the following documents:

- Code of practice relating to holdopen systems issued by the German Institute for Building Technology, Berlin
- General building regulations pertaining to the approval of the hold-open system concerned
- EN 1155
- DIN EN 14637

#### 1. General

**1.1** In the case of fire doors (and similar shutters/closures/barriers) that are held open by hold-open systems, the sweep area necessary for the closing operation must be kept constantly clear. This area must be clearly identified by lettering, floor markings or similar. Where necessary, structural measures must also be implemented to ensure that cables, leads, lines, pipes, stored/ deposited goods or components (e.g. false ceilings or other overhead items/elements) are reliably prevented from falling into the sweep area.

#### 2. 2. Final inspection (acceptance)

2.1 In Germany and countries governed by DIN regulations: Following on-site installation of the operable hold-open system, its functional integrity and quality of installation must be confirmed by an acceptance inspection procedure. The acceptance inspection may only be performed by skilled personnel of manufacturers of monitoring and/or hold-open devices, skilled personnel authorized by same, or skilled personnel from an accredited inspection agency. 2.2 In Germany and countries governed by DIN regulations: Once the acceptance inspection has been successfully completed, the operator shall permanently fix on the wall in the immediate vicinity of the door, a plate supplied by the manufacturer of the hold-open system measuring 105 mm x

#### Hold-open system

Inspected by...

(company logo with month and year of acceptance inspection) or equivalent.

52 mm and carrying the inscription

**1.3** Each hold-open device must also be capable of being released by hand, without adversely affecting the functional capabilities of the automatic release device.

In the case of door closers with electro-magnetic hold-open, the manual release may be performed by a small tug applied to the door leaf. If holding electro-magnets or free-swing door closers are used, a pushbutton must be provided to facilitate manual release.

The manual release pushbuttons employed for this purpose must be red and carry the wording "Close Door" or equivalent. The pushbutton must be located in the immediate vicinity of the door and must not be concealed by the door when this is held open.

**2.3** The operator is to be provided with a certificate detailing the successful acceptance inspection; this certificate must be retained by the operator.

#### 3. Periodic surveillance

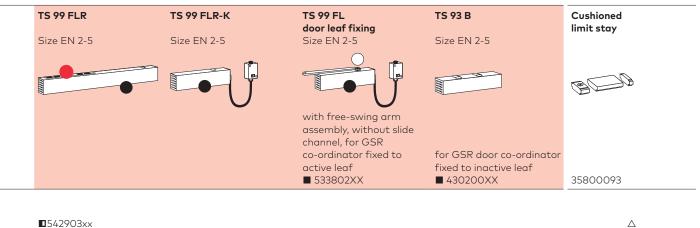
**3.1** The hold-open system must be kept by the operator in a constantly good operating condition, and inspected at least once a month to ensure that it is functioning properly. **3.2** In addition, the operator is obliged at least once a year, or at shorter intervals if specified in the approval certificate, to inspect all the devices to ensure that they are operating and interacting properly and without fault, and to carry out or instigate adequate maintenance. The associated test, inspection and the maintenance work may only be performed by an expert or an appropriately trained person.

**3.3** The scope, result and time of the periodic inspection are to be recorded. These records must be retained by the operator.

## Standard equipment and accessories

	<b>TS 99 FL</b> door leaf fixing Size EN 2-5	<b>TS 99 FL</b> transom fixing Size EN 2-5	<b>TS 99 FL</b> <b>transom fixing, push side</b> Size EN 2-5
Slide channel with free-swing arm assembly	■ 533202xx	∎533302xx	∎533202xx
Slide channel with free-swing arm assembly			
Slide channel with free-swing arm assembly for door widths ≥ 950 mm			
G-SR			
G-SR-EMF 1			
G-SR-EMR 1			
RMZ smoke detector 648000xx	Δ	Δ	Δ
RM-N smoke detector 64830900 packaging unit 2 pcs.	Δ	Δ	Δ
Manual release pushbutton           HT-UP         35901531           HT-AP         35901532	Δ	Δ	Δ
	·		

- Hold-open device tested to EN 1155 (max. EN 5)
- RMZ smoke detector
- O Free-swing action
- Closer body complete with slide channel assembly
- Closer separate
- □ Slide channel assembly separate
- $\bigtriangleup$  Optional accessory



 $\triangle$ 

∎ 543001xx

**1** 543101xx

			1 x 🔳		1x∎	
			1x∎		1x ■	
			1x∎		1x ■	
Δ	Δ	Δ	7.1)	Δ	1)	
Δ	Δ	Z	Δ	2	2	
Δ	Δ	2	2	2	2	

#### Colour хх

01 Silver

White (RAL 9016) 11

09 Special colour

Also available in matching "Design" finishes

04 Stainless steel

TS 99 FLR only available in 01 and 04

 $^{\star}$  "Design"  $\,$  refers to the surface finish of the products

 $^{\scriptscriptstyle 1\!\!\!0}$  Not necessary in the case of the G-SR-EMR 1

## **Specification texts**

#### TS 99 FL EN 2-5

Slide channel door closer compliant with EN 1154, with CE mark, in the Contur design, for door widths up to 1250 mm, with electrohydraulic hold-open, compliant with EN 1155, with free-swing action from a door opening angle of >0°.

Closing speed and latching action adjustable. Non-handed. Operating voltage 24 V DC.

Approved by the German Institute for Building Technology, Berlin, for use in a hold-open system.

Acceptance inspection mandatory in Germany. In transom-mounted arrangement, a certificate of compliance in conjunction with the relevant fire and smoke check door is mandatory.

#### TS 99 FLR EN 2-5

Slide channel door closer compliant with EN 1154, with CE mark, in the Contur design, for door widths up to 1250 mm, with electrohydraulic hold-open, compliant with EN 1155, with free-swing action from a door opening angle of > 0°.

Closing speed and latching action adjustable. Non-handed. Additional connections available for further detectors, external manual release device and floating (no-volt) alarm contact. Power supply 230V AC.

Operating voltage 24 V DC.

Approved by the German Institute for Building Technology, Berlin, for use as a hold-open system.

Acceptance inspection mandatory in Germany.

Approval certification with the relevant fire and smoke check door mandatory.

#### TS 99 FLR-K EN 2-5

Slide channel door closer compliant with EN 1154, with CE mark, in the Contur design, for door widths up to 1250 mm, with electrohydraulic hold-open, compliant with EN 1155, with free-swing action from a door opening angle of  $> 0^\circ$ .

Closing speed and latching action adjustable. Non-handed. Slide channel with integral power pack and smoke detector, with standby and maintenance due indicators. Overall height 30 mm. Additional connections available for further detectors, external manual release device and floating (no-volt) alarm contact. Power supply 230V AC. Operating voltage 24 V DC.

Approved by the German Institute for Building Technology, Berlin, for use as a hold-open system.

Acceptance inspection mandatory in Germany.

#### RMZ

Smoke detector in the Contur design, with standby and maintenance due indicators, integral power pack and optical smoke sensor for transom/lintel fixing. For release activation of dormakaba hold-open devices. A floating (no-volt) alarm contact and connections for further detectors and external manual release devices are provided. Can be switched to manual reset. One-piece cover. Overall height 30 mm.

General building approval granted by DIBt, Berlin, for use in a hold-open system. Acceptance inspection of the system is mandatory in Germany.

#### RM-N

Optical smoke detector, 24 V DC, for ceiling fixing. For use as second and third triggering detector on all DORMA hold-open systems. With floating (no-volt) change-over contact.

General building approval granted by DIBt, Berlin and the VdS, Cologne; compliant to EN 54, Part 7.

Acceptance inspection mandatory in Germany.

#### Model

- □ Leaf-fixed/pull side
- □ Transom-fixed/pull side

#### Color

- □ Silver
- □ White (sim. to RAL 9106)
- □ Stainless steel "Design"
- □ Special color (sim. to RAL)

#### Model

□ Transom-fixed/pull side

#### Color

□ Silver □ Stainless steel "Design"

Model □ Leaf-fixed/pull side

#### Color

Model

- □ Silver
- □ White (sim. to RAL 9106)
- □ Stainless steel "Design"

## □ RMZ

- with integrated power pack. Power supply 230 V AC Operating voltage 24 V DC. RMZ DCW<sup>®</sup>
- Smoke detector without power pack for connection to DCW<sup>®</sup> bus.
- Optional integral alarm module adding an audible signal to the visual indicator.

#### Color

□ White (sim. to RAL 9003)

Make

Color

Make

RMZ

RMZ DCW®

□ Silver

□ White (sim. to RAL 9106)

Special color (sim. to RAL)

Stainless steel "Design"

RM-N

## Make

#### TS 99 FLR-K

- Special color (sim. to RAL)

#### Make

Make

TS 99 ELR

TS 99 FL

#### TS 99 FL GSR EN 2-5

Slide channel door closer on the active leaf, compliant with EN 1154, with CE mark, in the Contur design, for door widths up to 1250 mm, with electro-hydraulic hold-open, compliant with EN 1155, and with a free-swing function from a door opening angle of > 0°.Closing speed and latching action adjustable. Non-handed. Operating voltage 24 V DC.

Slide channel with integral mechanical door coordinator, compliant with EN 1158. This system operates independently of the door closer hydraulics using a push rod clamping system with a protective overload release and one-piece cover. Overall height 30 mm. Non-handed.

Cam-action door closer on the inactive leaf: TS 93 EN 2-5. Approved by the German Institute for Building Technology, Berlin, for use in a hold-open system. Acceptance inspection mandatory in Germany.

#### TS 99 FL GSR-EMF 1 EN 2-5

Slide channel door closer on the active leaf, compliant with EN 1154, with CE mark, in the Contur design, for door widths up to 1250 mm, with electro-hydraulic hold-open, compliant with EN 1155, and with a free-swing function from a door opening angle of >0°. Closing speed and latching action adjustable. Non-handed. Operating voltage 24 V DC.

Slide channel with integral mechanical door coordinator, compliant with EN 1158.

Electro-mechanical hold-open, 24 V DC, compliant with EN 1155. Hold-open point 80° – 130° and pull-off force adjustable. This system operates independently of the door closer hydraulics using a push rod clamping system with a protective overload release and one-piece cover. Overall height 30 mm. Non-handed.

Cam-action door closer on the inactive leaf: TS 93 EN 2-5. Approved by the German Institute for BuildingTechnology, Berlin, for use in a hold-open system. Acceptance inspection mandatory in Germany.

#### TS 99 FL GSR-EMR 1 EN 2-5

Slide channel door closer on the active leaf, compliant with EN 1154, with CE mark, in the Contur design, for door widths up to 1250 mm, with electro-hydraulic hold-open, compliant with EN 1155, and with a free-swing function from a door opening angle of >0°. Closing speed and latching action adjustable. Non-handed. Operating voltage 24 V DC.

Smoke detector with standby and maintenance due indicators fully integrated in the housing of the door coordinator.

Additional connections available for further detectors, external manual release device and floating (no-volt) alarm contact. Power supply 230V AC.

Operating voltage 24 V DC.

Slide channel with integral mechanical door coordinator, compliant with EN 1158.

Electro-mechanical hold-open, 24 V DC, compliant with EN 1155. Hold-open point  $80^{\circ}$  –  $130^{\circ}$  and pull-off force adjustable.

This system operates independently of the door closer hydraulics using a push rod clamping system with a protective overload release and one-piece cover. Overall height 30 mm. Non-handed.

Cam-action door closer on the inactive leaf: TS 93 EN 2-5. Approved by the German Institute for Building Technology, Berlin, for use as a hold-open system. Acceptance inspection mandatory in Germany.

#### Model

 Leaf-fixed/pull side
 (TS 99 FL on active leaf, TS 93 on inactive leaf)

### Color

- □ Silver □ White (sim. to RAL 9106)
- ☐ Stainless steel "Design"
- Special color

(sim. to RAL)

#### Model

□ Leaf-fixed/pull side (TS 99 FL on active leaf, TS 93 on inactive leaf)

#### Color

- SilverWhite (sim. to RAL 9106)
- Stainless steel "Design"
- Special color (sim. to RAL)

#### Model

 Leaf-fixed/pull side
 (TS 99 FL on active leaf, TS 93 on inactive leaf)

#### Color

- Silver
- □ White (sim. to RAL 9106)
- □ Stainless steel "Design"
- Special color (sim. to RAL)

TS 99 FL GSR-EMF 1

Make

Make

TS 99 FL GSR

Make

TS 99 FL GSR-EMR 1

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