WN 056834 45532
09/08

GB

FIXING INSTRUCTIONS

Door co-ordinator suitable for doors from 1500 mm to 2500 mm in width.
Inactive door width in the case of unequal doors min. 600 mm.

Technical Data EMF

Operating voltage:	24 V DC
Power input:	2x1,4 W = 2,8 W
Rated for continuous duty:	100 % ED
Release torque:	approx. 25 - 65 Nm at an opening angle of 90° (dependent upon the strength setting of the door closer)
Door opening angle:	max. 120°

The unit is controlled by an external smoke detector.

Approval certification
The G - SR/BG has been approved by the State Material Testing Authority, Dortmund, for use on double (two-leaf) fire/smoke check doors in Germany.
A separate approval certificate is required in conjunction with the fire/smoke check door concerned (e.g. where DIN standards apply) – check local regulations.

Abbreviations

G	= Active leaf
S	= Inactive leaf
GSR/BG	= Slide channel-type door co-ordinator
GSR EMF2/BG	= with electro-mechanical hold-open for the inactive and active leaves

The slide channels are non-handed, i.e. suitable for LH and RH doors.

Installation preparations
Mark holes as per dimensioned drawing – or use closer template.
In models featuring an electro-mechanical hold-open, lay power supply cable from the smoke detector

1a **Direct fixing**

1b **Fixing with mounting backplate**
Shorten mounting backplates so that they abut at the door centre.
Fix mounting backplates.

1c **Mounting with angle brackets**
Shorten angle brackets so that they abut at the door centre.
Fix angle brackets.

The following describes the fixing process for a left-handed (ISO 6) active leaf. The procedure for a right-handed (ISO 5) active leaf should be adapted accordingly.

2a
2b To fix the inactive leaf slide channel, proceed as indicated pictorially in steps ① - ③
2c

3a
3b To fix the active leaf slide channel, proceed as indicated pictorially in steps ① - ③
3c

Fit the closer body and arm in accordance with the TS 93 G fixing instructions, and adjust both door closers as required.

⚠ **Depending on the structural conditions, it may benecessary to limit the door opening angle.**
In order to avoid damage to the door and the door closer, position a door stop accordingly (see also TS 93 G Fixing Instructions, Fig. 12).
For door leaves with electro-mechanical hold-open the following applies: The door can be opened up to the selected hold-open point; it is at this point that a door stop should be fitted.

4 Measure dimension X ① .
Shorten connecting rod to X – 41 mm ②.

5 Close both door leaves ① ②.
Press lever with roller against the door ③ and tighten the Allen screw ④.
Remove screw ⑤ .

6 Open both door leaves ① ②.
Ensure that the adjustment sleeve has been fully wound in ③.
Move arm with roller to maximum extent in direction of the open door leaf ④.
Insert the connecting rod into the adjustment sleeve of the active leaf slide channel ⑤, and then place in the plastic slider of the inactive leaf slide channel ⑥.

7 Close both door leaves ① ②.
Unwind the adjustment sleeve by hand ③until pin drops out ④. In this process, ensure that the clamping plate remains perpendicular (90°) to the clamping rod (4.1).
Secure adjustment sleeve ⑤.
Note: The pin retains the closing mechanism in its neutral position without clamping and can be discarded once the system has been installed.

⚠ **The clamping rod will only operate smoothly if the clamping plate has been properly adjusted. Only then will the active leaf swing freely with the inactive leaf closed.**

Functional checks:
Open both door leaves and then hold the inactive leaf in its open position.
The active leaf must then stay open at any angle.
Allow the inactive leaf to close.
The active leaf should close automatically once the inactive leaf has reached its closed position.

For G - SR/BG without electro-mechanical hold open (EMF), skip to step 11.

8 Install interconnecting cabling supplied ①.
Ensure that the cable does not come into contact with any moving parts.

Connect the cable as follows:
EMF inactive leaf ②

24 V DC - from RMZ smoke detector or fire alarm installed by others ③

E = Limit switch - this releases the inactive leaf when the active leaf is pulled off/released from its hold-open position.

9 **Setting the hold-open point**
Both hold-open points can be adjusted independently of one another between approx. 80° and 120°.

Switch on power supply (24 V DC).
Open door leaves and engage hold-open ①.
Loosen screws ②.
Open door to required hold-open angle and secure ③.
Re-tighten screws ④.

⚠ **The door cannot be opened beyond the hold open point; fix a door stop at this position ⑤.**

10 **Setting the pull-off force:**
Adjust the pull-off force to suit the door width and size of door closer.
EN 1155 states that the release torque at 90° door opening angle should be between 40 and 120 Nm

⚠ **If the pull-off force is set too high, damage might occur at the hinges and fixings of the door closer system.**

Functional checks:
Open both door leaves and engage hold-open.
Then pull the active leaf closed.
The inactive leaf must be automatically released and closed.
The active leaf should also close automatically once the inactive leaf has reached its closed position.

Open active leaf and engage hold-open.
Open inactive leaf and engage hold-open.
Interrupt the power supply and ensure that the hold open mechanisms are released.
The active leaf should also close automatically once the inactive leaf has reached its closed position.

11 Clip on end cap trims.
Break out marked recess in the cover and clip cover into position.

12 Determine the required length of centre cover ① and saw to size ②.
Clip on cover ③.
Break out marked recess ④ on plastic trim for inactive leaf.
Fit plastic jointing elements ⑤.

For remainder of the installation, see fixing instructions for TS 93 G.

FINAL INSPECTION AND MAINTENANCE

☞ See instruction sheet relating to the use and application of hold-open systems.[1)]

FURTHER INFORMATION

☞ See instruction sheet relating to the use and application of hold-open systems.[1)]
See guidelines for hold-open systems published by the Institute for Building Technology, Berlin[1)], or equivalent national guidelines.

[1)] Some documents are only printed in German as they refer exclusively to the German market.

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