

FIXING INSTRUCTIONS
Technical Data EMF

Operating voltage:	24 V DC
Power input:	1,4 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.

1a Installation on the pull side (hinge side)

Drill fixing points for closer and slide channel using template **TS 93 B** or as per dimensioned drawing. For electro-mechanical hold-open, wire in power supply from the smoke detector.

1b Installation on the push side (opposite hinge side)

A separate approval certificate may be required in conjunction with the fire/smoke door concerned (e.g. where DIN standards apply) – check local regulations. Drill fixing points for closer and slide channel using template **TS 93 G** or as per dimensioned drawing. For electro-mechanical hold-open, wire in power supply from the smoke detector.

- 2** Install door closer and arm as specified in the fixing instructions for the TS 93. Lead the 24 DC cable through the end cap ①②③. Insert end cap in the slide channel ④. Fix the side channel ⑤. Connect cable and stow in the hollow chamber of the slide channel ⑥. Connect the arm and slide shoe of the slide channel as per TS 93 instructions, and adjust door closer settings.

- 3 Setting the hold-open point:**
 Switch on power supply (24 V DC). Open door leaf and engage hold-open. Loosen screws. Open door to required hold-open angle and secure in this position. Re-tighten screws.



The door cannot be opened beyond the holdopen point; fix a door stop at this position.

- 4 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 the fixings of the door closer system.

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


Functional checks:

Open the door and engage hold-open. Interrupt the power supply and ensure that the hold-open mechanism releases the door.

FINAL INSPECTION AND MAINTENANCE

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

FURTHER INFORMATION

 See instruction sheets relating to the use and application of hold-open systems¹⁾. See guidelines for hold-open systems¹⁾ published by the Institute for Building Technology, Berlin, or equivalent national guidelines.

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