



BACring. The powerful control system
for smoke dampers

Technical Datasheet DPM-I4

[DUP] BACring - Control system

VERSION 1.14

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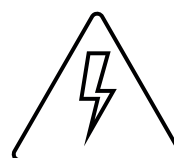


Safety Instructions and Warranty Conditions

WARNING: DANGER TO LIFE!



Before working on the device, it must be disconnected from the power supply (unplug the mains plug). Work on the device may only be carried out by a qualified electrician.

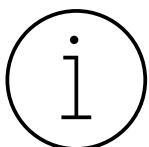


Warranty Conditions



Installation and commissioning must be performed by a qualified electrician! Please read the technical data sheet before installation.

Information



The individual modules are built and tested in accordance with applicable standards and laws and left the factory in perfect condition. To maintain this condition and ensure safe operation, the instructions contained in the user manual must be observed.

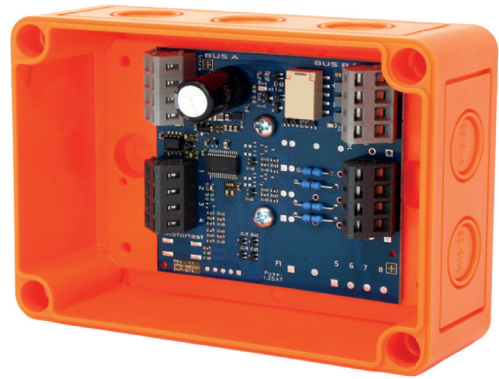
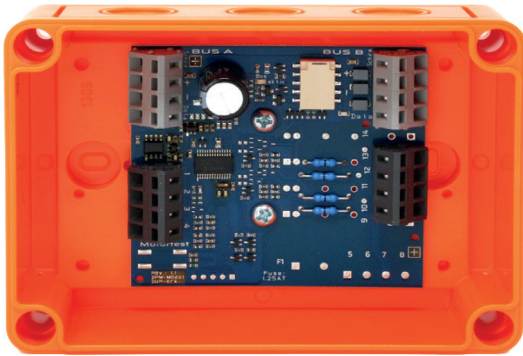


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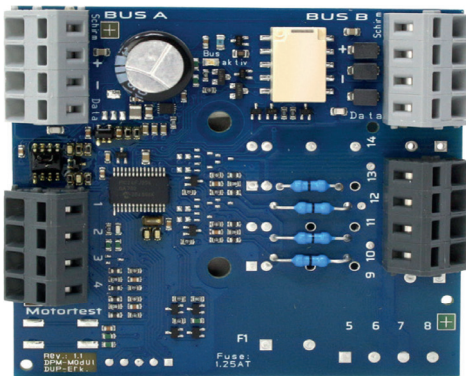
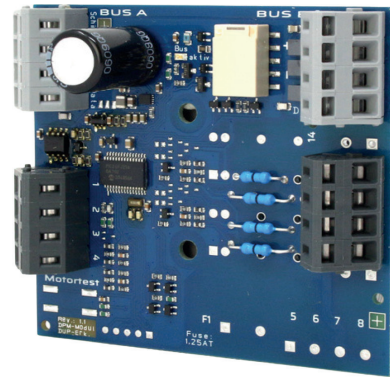
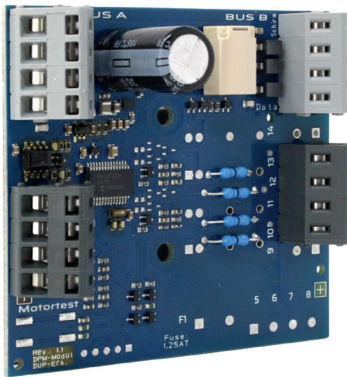


Views





Views





Description

The DPM-I4 fieldbus module is used for acquiring up to four potential-free contacts and is particularly suitable for connecting limit switches of thermal fire dampers. In addition, other potential-free signaling contacts can be integrated, such as fire detectors, smoke detectors, as well as feedback signals from doors, gates, or other safety-relevant devices. All recorded events are reliably transmitted to the DPB-Buscontroller via the BACring bus protocol. Thanks to its spring-loaded terminals, the module is completely maintenance-free and enables fast and secure wiring. For applications with increased requirements regarding functional integrity, the DPM-I4 fieldbus module can be integrated into the DPH-Fire Safety-E90 enclosure. In combination with the DPH-Fire Safety-E90 enclosure, the DPM-I4 fieldbus module fulfills the requirements of DIN EN 1363-1:2020-05 for functional integrity in accordance with Section 5.3.1 of MLAR 2005 and thus achieves the required functional integrity of at least 90 minutes.

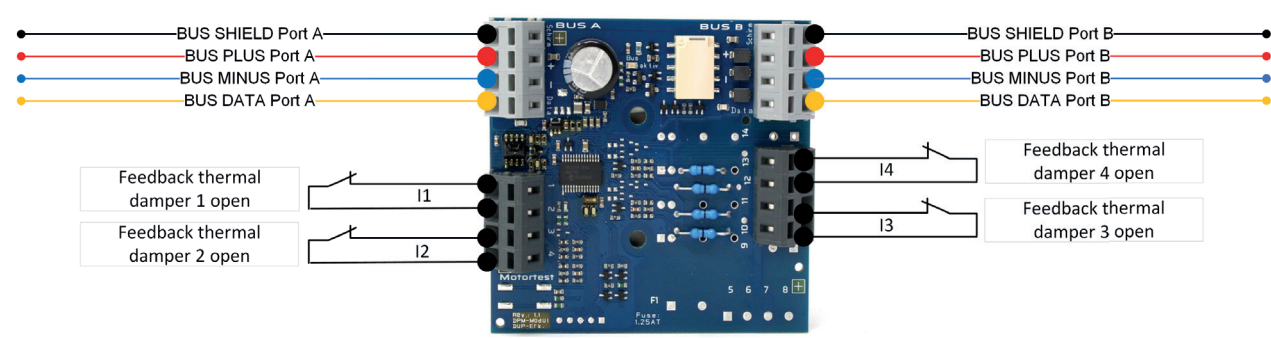


Technical Data

Power Supply bus	20 V DC $\pm$ 2 % (via DPB-Buscontroller)
Indicators	Green LED for "BUS activity"
Operating keys	None
Bus protocol	BACring protocol; Polling the inputs within < 1.5 s (independent of the size of the ring bus)
Digital inputs	4 digital inputs for limit contacts, not isolated, referring to bus ground
Connectors	Bus ports : WAGO cage-clamp terminals type 236 , light gray; Inputs : WAGO cage-clamp terminals type 236 , dark gray
EMC conformity	2014/35/EU, EN61000-6-1, EN61000-6-3, EN61000-4-2..-5
Maintenance	Maintenance-free
Mounting	Wall mount
Storage temperature	-30° to +100°C
Operation temperature	-20° to +75°C
Humidity	Storage: 0% - 100%, non-condensing; Operation: 0% - 100%, non-condensing
Protection Class	IP 66 (M20, M25 fittings)
Dimensions (W x H x D)	130 mm x 57 mm x 94 mm
Housing	Spelsberg (TK PS 1309-6-tm)
Weight	Approx. 0.4 kg



Connection Diagram



Connection diagram
DPM-I4 fieldbus module,
Status • 2026-02-11