



BACring. The powerful control system
for smoke dampers

Technical Datasheet DPM-I24C

[DUP] BACring - Control system

VERSION 1.14

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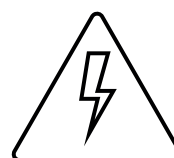


Safety Instructions and Warranty Conditions

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.

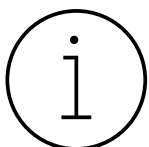


Warranty Conditions



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.

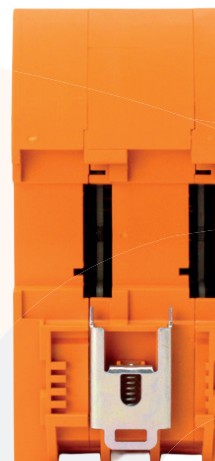


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Views





Description

The DPM-I24C control cabinet module provides a total of 24 digital inputs with 24-V logic and is designed to be completely maintenance-free.

Communication with the BACring-System is carried out via the BACring bus protocol.

LED indicators clearly display the power supply status, bus activity, as well as the individual status of inputs I1 to I24. Like the DPM-O24C output module, this module is most commonly used in applications where a large number of signals must be captured at a single location.

A typical application is installation in a fire brigade control panel. In this case, the DPM-I24C is used to interface the fire brigade switches of the individual smoke extraction zones (positions: Auto, On, Off) and reliably feeds these signals into the BACring-System.

Naturally, the DPM-I24C can also be used for other applications where a large number of digital signals need to be acquired.

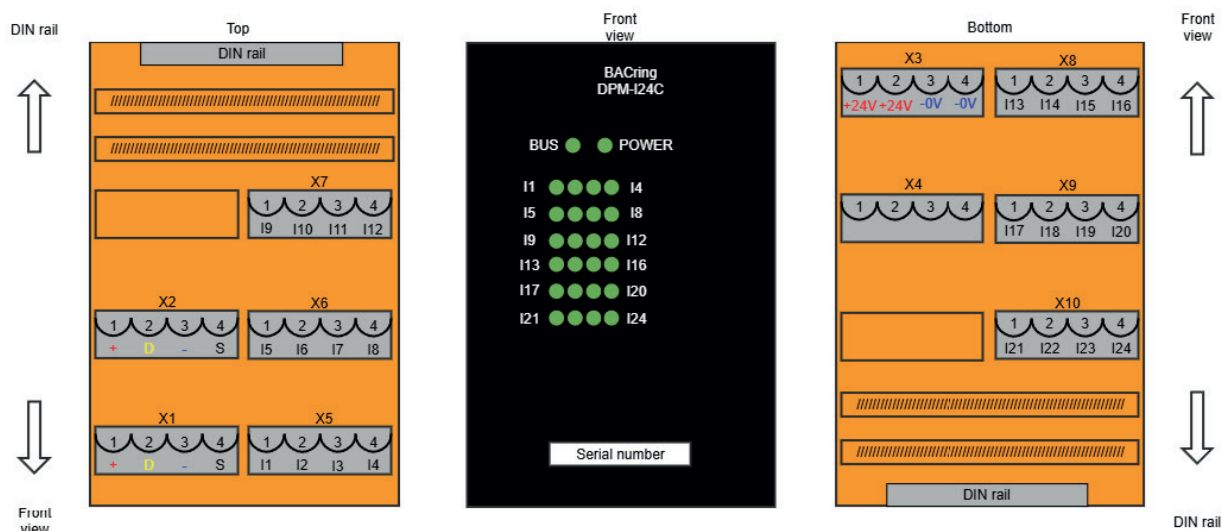


Technical Data

Power Supply bus	20 V DC $\pm$ 2 % (via DPB-Buscontroller)
Power Supply 24V inputs	+18 - 26V DC / own current < 0,1 A
Indicators	2 green LED's for "POWER" and "BUS Activity"; 24 green LED's shows the actual state of all inputs I1 - I24
Operating keys	None
Ring bus ports A and B	4-pin BACring bus port A and B, (3-wires BACring bus plus shield)
Bus protocol	BACring protocol; Polling the inputs within < 1.5 s (independent of the size of the ring bus)
Connectors	Bus ports: 2 x Phoenix Contact FKCT 2,5/4-STKMGY (4-pin, female); 24 inputs: 6 x Phoenix Contact FKCT 2,5/4-STKMGY (4-pin, female); +24V supply: 1 x Phoenix Contact FKCT 2,5/4-STKMGY (4-pin, female);
EMC conformity	2014/35/EU, EN61000-6-1, EN61000-6-3, EN61000-4-2...-5
Maintenance	Maintenance-free
Mounting	DIN-rail mounting
Storage temperature	-20° to +100°C
Operation temperature	-10° to +75°C
Humidity	Storage: 0% - 80%, non-condensing; Operation: 0% - 70%, non-condensing
Protection Class	IP 20
Dimensions (W x H x D)	46 mm x 114 mm x 120 mm
Housing	Phoenix ME MAX (orange)
Weight	Approx. 0.3 kg



Connection Diagram



Terminal	Description
BUS	LED indicating bus activity
POWER	LED indicating 24 V power supply for the inputs
I1 - I24 LED	LED indication for inputs I1–I24. LED ON = input = logic 1
X1	Bus Port A connection (PLUS (1), DATA (2), MINUS (3), SHIELD (4))
X2	Bus Port B connection (PLUS (1), DATA (2), MINUS (3), SHIELD (4))
X3	24 V Power Supply Connection for inputs, 18–26 V DC, internal consumption approx. 0.1 A (+24 V (1,2), 0 V (3,4))
X4	Not used
X5	Connection for inputs I1 (1), I2 (2), I3 (3), I4 (4)
X6	Connection for inputs I5 (1), I6 (2), I7 (3), I8 (4)
X7	Connection for inputs I9 (1), I10 (2), I11 (3), I12 (4)
X8	Connection for inputs I13 (1), I14 (2), I15 (3), I16 (4)
X9	Connection for inputs I17 (1), I18 (2), I19 (3), I20 (4)
X10	Connection for inputs I21 (1), I22 (2), I23 (3), I24 (4)