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## Monitoring module - MINI MCR-2-FM-RC-PT - 2904508

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Fault monitoring module with plug-in connection technology for evaluating and reporting group errors from the FM system and for monitoring the supply voltages. Error reporting via N/O contact. Push-in connection technology, standard configuration

### Product Description

The fault monitoring module with plug-in connection technology is used to evaluate and report group errors from the fault monitoring system of up to 115 connected MINI Analog Pro signal conditioners via the ME 6,2 TBUS-2 DIN rail connector (Order No.: 2869728). You can also monitor the supply voltages of MINI MCR-2-PTB(-PT) power terminals (Order No.: 2902066, 2902067). Drawing off the supply is also possible. The error is reported via an N/C contact. The error reporting module supports NFC communication.



### Key Commercial Data

Packing unit	1 STK
GTIN	 4 046356 857390

### Technical data

#### Note

Utilization restriction	EMC: class A product, see manufacturer's declaration in the download area
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#### Dimensions

Width	6.2 mm
Height	110.5 mm
Depth	120.5 mm

#### Ambient conditions

Ambient temperature (operation)	-40 °C ... 70 °C
Ambient temperature (storage/transport)	-40 °C ... 85 °C
Degree of protection	IP20

#### Input data

Description of the input	Voltage input for redundancy monitoring
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## Technical data

### Input data

Number of inputs	1
Voltage input signal	9.9 V DC ... 30 V DC

### Output data

Number of outputs	1
Voltage output signal	9.6 V DC ... 29.7 V DC
Max. output current	3.2 A

### Switching output

Output name	Switching output
Maximum switching voltage	30 V DC
Max. switching current	50 mA

### Power supply

Supply voltage range	12 V DC ... 24 V DC -20 % ... +25 % (The DIN rail bus connector (ME 6,2 TBUS-2 1,5/5-ST-3,81 GN, Order No. 2869728) can be used to bridge the supply voltage. It can be snapped onto a 35 mm DIN rail according to EN 60715))
Max. current consumption	< 16 mA (at 24 V DC)
Power consumption	< 410 mW (at 24 V DC)

### Connection data

Connection method	Push-in connection
Single conductor/terminal point, solid, with ferrule, min.	0.14 mm <sup>2</sup>
Single conductor/terminal point, solid, with ferrule, max.	2.5 mm <sup>2</sup>
Single conductor/terminal point, solid, without ferrule, min.	0.14 mm <sup>2</sup>
Single conductor/terminal point, solid, without ferrule, max.	2.5 mm <sup>2</sup>
Conductor cross section flexible min.	0.14 mm <sup>2</sup>
Conductor cross section flexible max.	2.5 mm <sup>2</sup>
Min. AWG conductor cross section, flexible	24
Max. AWG conductor cross section, flexible	12
Stripping length	10 mm

### General

Maximum temperature coefficient	< 0.01 %/K
Test voltage	1500 V AC (50 Hz, 1 min.)
Status display	Yellow LED (switching output)
Electrical isolation	Basic insulation according to EN 61010
Overvoltage category	II
Degree of pollution	2
Rated insulation voltage	50 V AC/DC (effective)
Test voltage input/output	1.5 kV AC (50 Hz, 1 min.)
Electromagnetic compatibility	Conformance with EMC Directive 2004/108/EC (valid until 19.04.2016) / 2014/30/EU (valid from 20.04.2016)
Noise emission	EN 61000-6-4

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## Technical data

### General

Noise immunity	EN 61000-6-2 When being exposed to interference, there may be minimal deviations.
Housing material	PBT
Mounting position	any
Conformance	CE-compliant
ATEX	# II 3 G Ex nA IIC T4 Gc X
UL, USA / Canada	UL 508 Listed
	Class I, Div. 2, Groups A, B, C, D T6
	Class I, Zone 2, Group IIC T6
Certificate of classification	DNV GL 14445-15HH

### Standards and Regulations

Electromagnetic compatibility	Conformance with EMC Directive 2004/108/EC (valid until 19.04.2016) / 2014/30/EU (valid from 20.04.2016)
Noise emission	EN 61000-6-4
Designation	Electromagnetic RF field
Standards/regulations	EN 61000-4-3
	EN 61000-4-4
Designation	Conducted interferences
Standards/regulations	EN 61000-4-6
Electrical isolation	Basic insulation according to EN 61010
Conformance	CE-compliant
ATEX	# II 3 G Ex nA IIC T4 Gc X
UL, USA / Canada	UL 508 Listed
	Class I, Div. 2, Groups A, B, C, D T6
	Class I, Zone 2, Group IIC T6

## Classifications

### eCl@ss

eCl@ss 4.0	27060306
eCl@ss 4.1	27060306
eCl@ss 5.0	27061801
eCl@ss 5.1	27061801
eCl@ss 6.0	27061801
eCl@ss 7.0	27061801
eCl@ss 8.0	27371801

### ETIM

ETIM 3.0	EC000237
ETIM 4.0	EC001485
ETIM 5.0	EC001438

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## Classifications

### UNSPSC

UNSPSC 6.01	26121604
UNSPSC 7.0901	26121604
UNSPSC 11	26121604
UNSPSC 12.01	26121604
UNSPSC 13.2	26121604

## Approvals

### Approvals

#### Approvals

UL Listed / cUL Listed / EAC / GL / cULus Listed

#### Ex Approvals

ATEX / UL Listed / cUL Listed / cULus Listed

#### Approvals submitted

### Approval details

UL Listed

cUL Listed

EAC

GL

cULus Listed

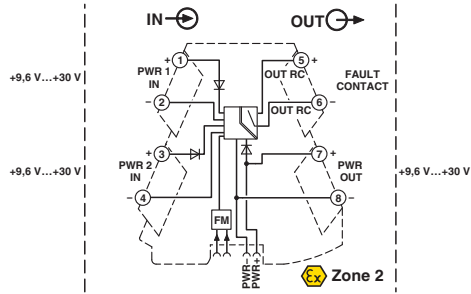
## Drawings

# Monitoring module - MINI MCR-2-FM-RC-PT - 2904508

Pictogram



Block diagram



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Product	Code	Reference	Product link
Fault monitoring module with plug-in connection technology for evaluating and reporting group errors from the FM system and for monitoring the supply voltages. Error reporting via N/O contact. Push-in connection technology, standard configuration	2904508	MINI MCR-2-FM-RC-PT	<a href="#">Buy on EAN</a>