

Monitoring module - MINI MCR-2-FM-RC - 2904504

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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 message via N/C contact. Screw 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 pc |
| GTIN |  4 046356 857406 |
| GTIN | 4046356857406 |

Technical data

Note

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

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 |

Input data

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|--------------------------|---|
| Description of the input | Voltage input for redundancy monitoring |
|--------------------------|---|

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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 | 9.6 V DC ... 30 V DC (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 | Screw connection |
| Single conductor/terminal point, solid, with ferrule, min. | 0.2 mm ² |
| Single conductor/terminal point, solid, with ferrule, max. | 1.5 mm ² |
| Single conductor/terminal point, solid, without ferrule, min. | 0.2 mm ² |
| Single conductor/terminal point, solid, without ferrule, max. | 2.5 mm ² |
| Conductor cross section flexible min. | 0.2 mm ² |
| Conductor cross section flexible max. | 1.5 mm ² |
| Min. AWG conductor cross section, flexible | 24 |
| Max. AWG conductor cross section, flexible | 12 |
| Stripping length | 10 mm |
| Screw thread | M3 |

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 |

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General

| | |
|--|---|
| Noise emission | EN 61000-6-4 |
| 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 |
| Fire protection for rail vehicles (DIN EN 45545-2) R22 | HL 1 - HL 2 |
| Fire protection for rail vehicles (DIN EN 45545-2) R23 | HL 1 - HL 2 |
| Fire protection for rail vehicles (DIN EN 45545-2) R24 | HL 1 - HL 2 |

Standards and Regulations

| | |
|--|--|
| Electromagnetic compatibility | Conformance with EMC directive |
| Noise emission | EN 61000-6-4 |
| Standards/regulations | EN 61000-4-2 |
| Designation | Electromagnetic RF field |
| Standards/regulations | EN 61000-4-3 |
| | EN 61000-4-4 |
| | EN 61000-4-5 |
| 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 |
| Fire protection for rail vehicles (DIN EN 45545-2) R22 | HL 1 - HL 2 |
| Fire protection for rail vehicles (DIN EN 45545-2) R23 | HL 1 - HL 2 |
| Fire protection for rail vehicles (DIN EN 45545-2) R24 | HL 1 - HL 2 |

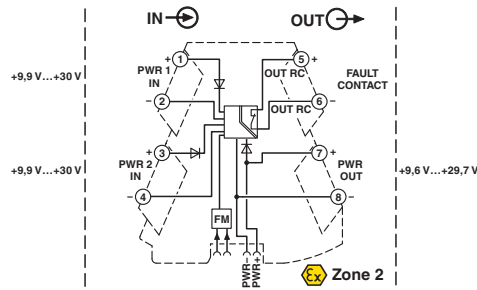
Environmental Product Compliance

| | |
|------------|---|
| China RoHS | Environmentally Friendly Use Period = 50 |
| | For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration" |

Drawings

Monitoring module - MINI MCR-2-FM-RC - 2904504

Block diagram



Approvals

Approvals

Approvals

GL / UL Listed / cUL Listed / cULus Listed

Ex Approvals

ATEX / UL Listed / cUL Listed / cULus Listed

Approval details

| | | | |
|--------------|--|---|---------------|
| GL | | http://exchange.dnv.com/tari/ | 14445-15 HH |
| UL Listed | | http://database.ul.com/cgi-bin/XYVV/template/LISEXT/1FRAME/index.htm | FILE E 238705 |
| cUL Listed | | http://database.ul.com/cgi-bin/XYVV/template/LISEXT/1FRAME/index.htm | FILE E 238705 |
| cULus Listed | | | |

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