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# Monitoring module - MINI MCR-SL-FM-RC-SP-NC - 2902962

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The figure shows a version with a screw connection

The fault monitoring module is used to evaluate and report group errors from the fault monitoring system and to monitor the supply voltages. The error is reported via an N/O contact. Spring-cage connection, standard configuration.

## Product Description

The MINI MCR-SL-FM-RO-(SP) fault monitoring module is used to evaluate and report group errors from the fault monitoring system.
It can be used to monitor the supply voltages of a MINI MCR-SL-PTB-FM-(-SP) power terminal block (Order No. 2902958, 2902959). It also offers the option of detecting and reporting errors from MINI Analog measuring transducers which support fault monitoring and are connected to the fault monitoring module via the ME 6,2 TBUS-2 DIN rail connector (Order No. 2869728). Drawing off the supply is also possible. The error message is reported via an N/C contact. A maximum of 80 measuring transducers can be monitored as a group.

## Key Commercial Data

| | |
|---|---|
| Packing unit | 1 STK |
| GTIN | 4 046356 702843 |

## Technical data

### Note

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

### Dimensions

| | |
|---|---|
| Width | 6.2 mm |
| Height | 93.1 mm |
| Depth | 102.5 mm |

### Ambient conditions

| | |
|---|---|
| Ambient temperature (operation) | -20 °C ... 65 °C |
| Ambient temperature (storage/transport) | -40 °C ... 85 °C |
| Degree of protection | IP20 |

### Input data

| | |
|---|---|
| Description of the input | Voltage input for redundancy monitoring |
| Voltage input signal | 9.6 V DC ... 30 V DC |

### Output data

| | |
|---|---|
| Voltage output signal | 8.8 V DC ... 29.2 V DC |

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## Technical data

### Output data

| | |
|---|---|
| Max. output current | 2 A |

### Switching output

| | |
|---|---|
| Output name | Switching output |
| Maximum switching voltage | 30 V AC/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 | < 5 mA (at 24 V DC) |
| Power consumption | < 120 mW (at 24 V DC) |

### Connection data

| | |
|---|---|
| Connection method | Spring-cage connection |
| Conductor cross section solid min. | 0.2 mm² |
| Conductor cross section solid max. | 2.5 mm² |
| Conductor cross section AWG min. | 24 |
| Conductor cross section AWG max. | 12 |
| Conductor cross section flexible min. | 0.2 mm² |
| Conductor cross section flexible max. | 2.5 mm² |
| Stripping length | 8 mm |

### General

| | |
|---|---|
| Maximum temperature coefficient | < 0.01 %/K |
| Status display | Yellow LED (switching output active), red LED (error) |
| Electrical isolation | Basic insulation according to EN 61010 |
| Overvoltage category | II |
| Degree of pollution | 2 |
| Rated insulation voltage | 50 V AC/DC |
| Test voltage input/output | 1.5 kV AC (50 Hz, 1 min.) |
| Electromagnetic compatibility | Conformance with EMC Directive 2004/108/EC |
| Noise emission | EN 61000-6-4 |
| Noise immunity | EN 61000-6-2 When being exposed to interference, there may be minimal deviations. |
| Color | green |
| Conformance | CE-compliant |
| ATEX | # II 3 G Ex nA nC IIC T4 Gc X |
| UL, USA / Canada | UL 508 Listed |
| | Class I, Div. 2, Groups A, B, C, D T5 applied for |
| | Class I, Zone 2, Group IIC |
| Certificate of classification | DNV GL 14085-15HH |

# Monitoring module - MINI MCR-SL-FM-RC-SP-NC - 2902962

## Technical data

### Standards and Regulations

| | |
|---|---|
| Electromagnetic compatibility | Conformance with EMC Directive 2004/108/EC |
| 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 nC IIC T4 Gc X |
| UL, USA / Canada | UL 508 Listed |
| | Class I, Div. 2, Groups A, B, C, D T5 applied for |
| | Class I, Zone 2, Group IIC |

## 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 | 27149214 |

### ETIM

| | |
|---|---|
| ETIM 3.0 | EC000237 |
| ETIM 4.0 | EC001485 |
| ETIM 5.0 | EC002848 |

### UNSPSC

| | |
|---|---|
| UNSPSC 6.01 | 26121604 |
| UNSPSC 7.0901 | 26121604 |
| UNSPSC 11 | 26121604 |
| UNSPSC 12.01 | 26121604 |
| UNSPSC 13.2 | 26121604 |

## Approvals

### Approvals

# Monitoring module - MINI MCR-SL-FM-RC-SP-NC - 2902962

## Approvals

Approvals

UL Listed / cUL Listed / GL / cULus Listed

Ex Approvals

ATEX / UL Listed / cUL Listed / cULus Listed

Approvals submitted

### Approval details

UL Listed

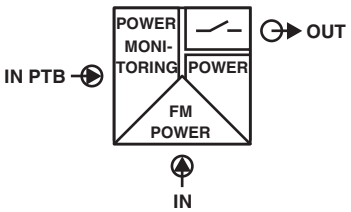
cUL Listed

GL

cULus Listed

## Drawings

Pictogram



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| Product | Code | Reference | Product link |
|---|---|---|---|
| The fault monitoring module is used to evaluate and report group errors from the fault monitoring system and to monitor the supply voltages. The error is reported via an N/O contact. Spring-cage connection, standard configuration. | 2902962 | MINI MCR-SL-FM-RC-SP-NC | Buy on EAN |