

Monitoring relay - EMD-SL-LL-230 - 2885906

Please be informed that the data shown in this PDF Document is generated from our Online Catalog. Please find the complete data in the user's documentation. Our General Terms of Use for Downloads are valid (<http://phoenixcontact.com/download>)



Monitoring relay for level monitoring of conductive fluids, minimum monitoring, maximum monitoring, 230 V AC supply voltage, 2 PDTs

Product Description

Increasingly higher demands are being placed on safety and system availability - across all sectors. Processes are becoming more and more complex, not only in mechanical engineering and the chemical industry, but also in plant and automation technology. Demands on power engineering are also increasing constantly.

Error-free and therefore cost-effective operation can only be achieved through continuous monitoring of important network and system parameters. Electronic monitoring relays in the EMD series are available for a wide range of monitoring tasks to avoid the consequences of errors or to keep them within limits.


The operating states are indicated using colored LEDs, errors that may occur can be sent to a control system via a floating contact or can shut down a part of the system. Some device versions are equipped with startup and response delays in order to briefly tolerate measured values outside the set monitoring range.

Your advantages

- Short-circuit and open-circuit monitoring
- Test function with integrated test/reset button
- Variable supply voltage range



Key Commercial Data

| | |
|--------------------------------------|---|
| Packing unit | 1 pc |
| GTIN |  4 046356 144148 |
| GTIN | 4046356144148 |
| Weight per Piece (excluding packing) | 180.000 g |
| Custom tariff number | 85364900 |
| Country of origin | Austria |

Technical data

Dimensions

Monitoring relay - EMD-SL-LL-230 - 2885906

Technical data

Dimensions

| | |
|--------|---------|
| Width | 22.5 mm |
| Height | 90 mm |
| Depth | 113 mm |

Ambient conditions

| | |
|---|--|
| Ambient temperature (operation) | -25 °C ... 55 °C |
| | -25 °C ... 40 °C (corresponds to UL 508) |
| Ambient temperature (storage/transport) | -25 °C ... 70 °C |
| Permissible humidity (operation) | 15 % ... 85 % |
| Degree of protection | IP40 (Housing) |
| | IP20 (Connection terminal blocks) |
| Noise immunity | EN 61000-6-2 |

Input data

| | |
|---------------|--|
| Function | Pumping up (minimum monitoring), pumping down (maximum monitoring) |
| Recovery time | 500 ms |

Contact side

| | |
|---------------------------------------|--|
| Contact type | 2 floating PDT contacts |
| Maximum switching voltage | 250 V AC (in acc. with IEC 60664-1) |
| Interrupting rating (ohmic load) max. | 750 VA (3 A/250 V AC, module aligned, ≤ 5 mm spacing) |
| | 1250 VA (5 A/250 V AC, module not aligned, ≥ 5 mm spacing) |
| Output fuse | 5 A (fast-blow) |

Power supply

| | |
|----------------|-----------------------------|
| Supply voltage | 230 V AC -15 % ... +15 % AC |
|----------------|-----------------------------|

General

| | |
|-------------------------------|--|
| Mechanical service life | approx. 2×10^7 cycles |
| Operating mode | 100% operating factor |
| Mounting position | any |
| Assembly instructions | on standard DIN rail NS 35 in accordance with EN 60715 |
| Electromagnetic compatibility | Conformance with EMC Directive 2004/108/EC |
| Housing insulation material | Polyamide PA, self-extinguishing |
| Color | green |

Connection data

| | |
|----------------------------------|--|
| Connection method | Screw connection |
| Stripping length | 8 mm |
| Conductor cross section solid | 0.5 mm ² ... 2.5 mm ² |
| Conductor cross section flexible | 0.25 mm ² ... 2.5 mm ² |

Monitoring relay - EMD-SL-LL-230 - 2885906

Technical data

Connection data

| | |
|-----------------------------|-----------|
| Conductor cross section AWG | 20 ... 14 |
| Tightening torque | 1 Nm |

Standards and Regulations

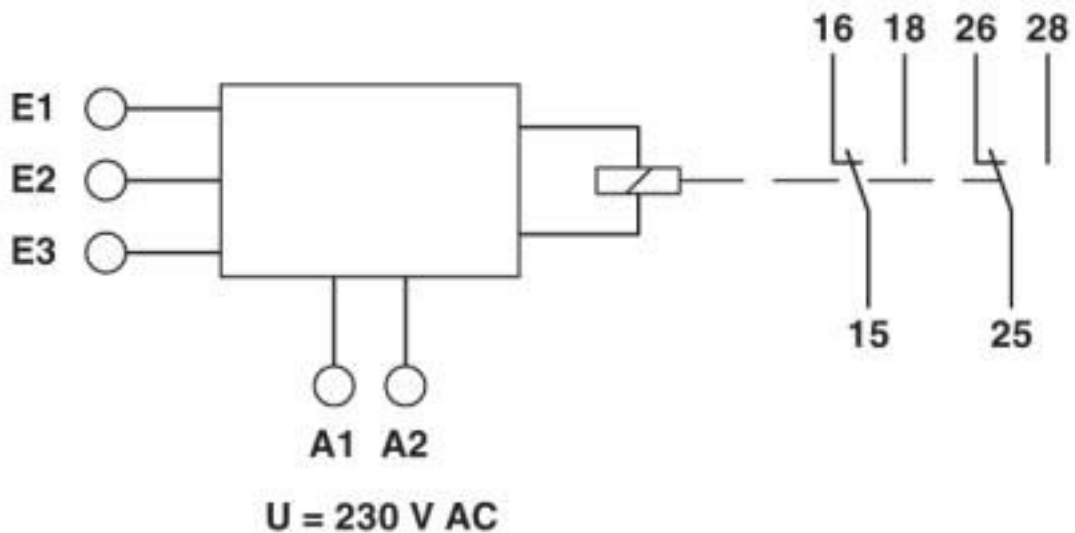
| | |
|-------------------------------|--|
| Electromagnetic compatibility | Conformance with EMC Directive 2004/108/EC |
| Noise emission | EN 61000-6-3 |
| Noise immunity | EN 61000-6-2 |
| Standards/regulations | EN 50178 |
| Rated insulation voltage | 300 V |
| Insulation | Basic insulation |
| Pollution degree | 2 |
| Overvoltage category | III |
| Low Voltage Directive | Conformance with LV directive 2006/95/EC |

Environmental Product Compliance

| | |
|------------|---|
| China RoHS | Environmentally friendly use period: unlimited = EFUP-e |
| | No hazardous substances above threshold values |

Drawings

Block diagram



Monitoring relay - EMD-SL-LL-230 - 2885906

Classifications

eCl@ss

| | |
|---------------|----------|
| eCl@ss 10.0.1 | 27371813 |
| eCl@ss 4.0 | 27371100 |
| eCl@ss 4.1 | 27371100 |
| eCl@ss 5.0 | 27371800 |
| eCl@ss 5.1 | 27371800 |
| eCl@ss 6.0 | 27371800 |
| eCl@ss 7.0 | 27371806 |
| eCl@ss 8.0 | 27371802 |
| eCl@ss 9.0 | 27371813 |

ETIM

| | |
|----------|----------|
| ETIM 2.0 | EC001438 |
| ETIM 3.0 | EC001438 |
| ETIM 4.0 | EC001447 |
| ETIM 5.0 | EC001447 |
| ETIM 6.0 | EC001443 |
| ETIM 7.0 | EC001443 |

UNSPSC

| | |
|---------------|----------|
| UNSPSC 6.01 | 30211916 |
| UNSPSC 7.0901 | 39121535 |
| UNSPSC 11 | 39121535 |
| UNSPSC 12.01 | 39121535 |
| UNSPSC 13.2 | 39121106 |
| UNSPSC 18.0 | 39121106 |
| UNSPSC 19.0 | 39121106 |
| UNSPSC 20.0 | 39121106 |
| UNSPSC 21.0 | 39121106 |

Approvals

Approvals

Approvals






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

Ex Approvals

Monitoring relay - EMD-SL-LL-230 - 2885906

Approvals

Approval details

| | | | |
|--------------|---|---|-------------------------|
| UL Listed |  | http://database.ul.com/cgi-bin/XYVV/template/LISEXT/1FRAME/index.htm | FILE E 172140 |
| cUL Listed |  | http://database.ul.com/cgi-bin/XYVV/template/LISEXT/1FRAME/index.htm | FILE E 172140 |
| EAC |  | | TR_TS_D_00573_c |
| EAC |  | | RU*C- DE.*08.B.00010 |
| cULus Listed |  | | |