

Monitoring relay - EMD-SL-LL-110 - 2901137

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Monitoring relay for level monitoring of conductive fluids, minimum monitoring, maximum monitoring, 110 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

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



Key Commercial Data

Packing unit	1 pc
GTIN	
GTIN	4046356574730
Weight per Piece (excluding packing)	195.560 g
Custom tariff number	85364900
Country of origin	Austria

Technical data

Dimensions

Width	22.5 mm
Height	90 mm
Depth	113 mm

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Technical data

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

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	110 V AC -10 % ... +15% AC
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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
Overvoltage category	III, basic insulation (as per EN 50178)
Housing insulation material	Polyamide PA, self-extinguishing
Color	green
Rated insulation voltage	300 V (acc. to EN 50178)
Conformance	CE-compliant
UL, USA/Canada	UL/C-UL listed UL 508

Connection data

Conductor cross section flexible min.	0.25 mm ²
Conductor cross section flexible max.	2.5 mm ²
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
Conductor cross section AWG	20 ... 14
Tightening torque	1 Nm

Standards and Regulations

Electromagnetic compatibility	Conformance with EMC Directive 2004/108/EC
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Technical data

Standards and Regulations

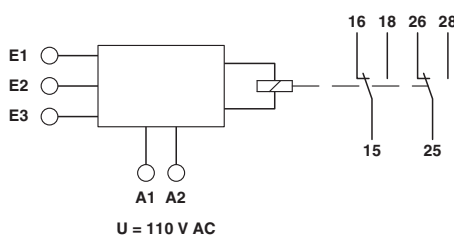
Noise emission	EN 61000-6-3
Noise immunity	EN 61000-6-2
Low Voltage Directive	Conformance with LV directive 2006/95/EC
Conformance	CE-compliant
UL, USA/Canada	UL/C-UL listed UL 508

Environmental Product Compliance

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

Drawings

Block diagram



Classifications

eCl@ss

eCl@ss 4.0	27210107
eCl@ss 4.1	27210107
eCl@ss 5.0	27371802
eCl@ss 5.1	27371800
eCl@ss 6.0	27371800
eCl@ss 7.0	27371802
eCl@ss 8.0	27371802
eCl@ss 9.0	27371802

ETIM

ETIM 3.0	EC001440
ETIM 4.0	EC001440
ETIM 5.0	EC001440
ETIM 6.0	EC001440

UNSPSC

UNSPSC 6.01	30211916
UNSPSC 7.0901	39121535
UNSPSC 11	39121535

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Classifications

UNSPSC

UNSPSC 12.01	39121535
UNSPSC 13.2	41113637

Approvals

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UL Listed / cUL Listed / EAC / cULus Listed


Ex Approvals

Approval details

UL Listed		http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	FILE E 172140
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cUL Listed		http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	FILE E 172140
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EAC		RU C- DE.A*30.B.01082
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cULus Listed	
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