

# EMD-SL-LL-230 - Monitoring relay



2885906

<https://www.phoenixcontact.com/us/products/2885906>

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

## 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

## Commercial data

Item number	2885906
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	C440
Product key	DK6634
GTIN	4046356144148
Weight per piece (including packing)	193 g
Weight per piece (excluding packing)	193 g
Customs tariff number	85364900
Country of origin	AT

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## Technical data

### Product properties

Product type	Level monitoring relay
Number (Inputs)	3
Operating mode	100% operating factor
Mechanical service life	approx. $2 \times 10^7$ cycles

### Insulation characteristics

Insulation	Basic insulation
Overvoltage category	III
Pollution degree	2

### Electrical properties

Service life electrical	$2 \times 10^5$ cycles at ohmic load, 1000 VA
Mains type	1-phase
Rated insulation voltage	300 V

### Supply

Supply voltage	230 V AC -15 % ... +15 % AC
Supply voltage range	195.5 V AC ... 264.5 V AC
Nominal power consumption	2 VA (1.5 W)

### Input data

Input name	Measuring input
Description of the input	Conductive probe, type: SK1, SK2, SK3
Frequency range	48 Hz ... 63 kHz
Typical response time	0.5 s ... 10 s
Function	Pump up (minimum monitoring) Pump down (maximum monitoring) Variable sensitivity
Recovery time	500 ms
Max. probe voltage	16 V AC
Max. probe current	7 mA
Length of probe cable	< 1000 m (Line capacity 100 nF/km; set value < 50%) < 100 m (Line capacity 100 nF/km; set value 100%)
Switching Threshold	0.25 k $\Omega$ ... 100 k $\Omega$ (4 mS ... 1 $\mu$ S)

### Output data

#### Switching

Contact switching type	2 floating changeover 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, $\leq$ 5 mm spacing) 1250 VA (5 A/250 V AC, module not aligned, $\geq$ 5 mm spacing)

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Output fuse	5 A (fast-blow)
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## Connection data

Connection method	Screw connection
Stripping length	8 mm
Conductor cross-section rigid	0.5 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>
Conductor cross-section flexible	0.25 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>
Conductor cross-section AWG	20 ... 14

## Dimensions

Width	22.5 mm
Height	90 mm
Depth	113 mm

## Material specifications

Color	green (RAL 6021)
Housing insulation material	Polyamide PA, self-extinguishing

## Environmental and real-life conditions

### Ambient conditions

Degree of protection (Housing)	IP40 (Housing)
Degree of protection (Connection terminal blocks)	IP20 (Connection terminal blocks)
Ambient temperature (operation)	-25 °C ... 55 °C -25 °C ... 40 °C (corresponds to UL 508)
Ambient temperature (storage/transport)	-25 °C ... 70 °C
Climatic class	3K3 (in acc. with EN 60721)
Permissible humidity (operation)	15 % ... 85 %

## Approvals

### CE

Certificate	CE-compliant
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### UL, USA/Canada

Identification	UL/C-UL Listed UL 508
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## EMC data

Electromagnetic compatibility	Conformance with EMC directive
Low Voltage Directive	Conformance with Low Voltage Directive
Noise immunity	EN 61000-6-2

### Noise emission

Standards/regulations	EN 61000-6-3
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## Standards and regulations

Standards/regulations	EN 50178
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## Mounting

Mounting type	DIN rail mounting
Assembly note	on standard DIN rail NS 35 in accordance with EN 60715
Mounting position	any

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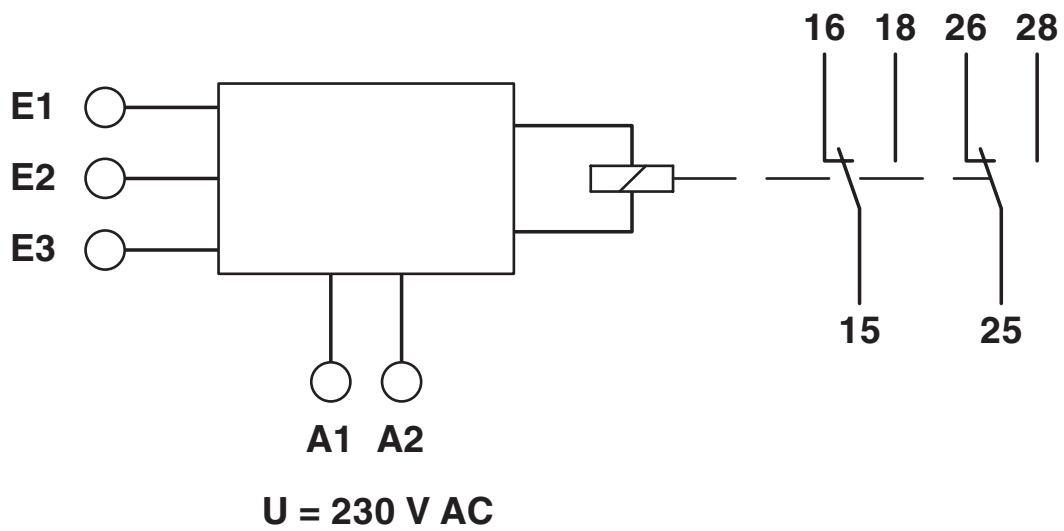
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## Drawings

Block diagram



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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/2885906>



**EAC**

Approval ID: RU\*C-DE.\*08.B.00010



**UL Listed**

Approval ID: FILE E 172140



**cUL Listed**

Approval ID: FILE E 172140

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## Classifications

### ECLASS

ECLASS-13.0	27371813
ECLASS-15.0	27371813

### ETIM

ETIM 10.0	EC011206
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### UNSPSC

UNSPSC 21.0	39121100
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## Environmental product compliance

### EU RoHS

Fulfills EU RoHS substance requirements	Yes, No exemptions
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### China RoHS

Environment friendly use period (EFUP)	EFUP-E
	No hazardous substances above the limits

### EU REACH SVHC

REACH candidate substance (CAS No.)	No substance above 0.1 wt%
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