

MCR-2SP-UI-DC - Limit value switch



2769873

<https://www.phoenixcontact.com/us/products/2769873>

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MCR threshold value switch, with 2 adjustable relay contacts, with electrically isolated power pack, input signal 0 ... 10 V/0 ... 20 mA. Replacement part: 2902035 MINI MCR-2-UI-REL-PT.

The figure shows version MCR-2SP-UI

Commercial data

Item number	2769873
Packing unit	1 pc
Note	Made to order (non-returnable)
Sales key	C401
Product key	DK1XXX
GTIN	4017918067694
Weight per piece (including packing)	224.9 g
Weight per piece (excluding packing)	216.06 g
Customs tariff number	85437090
Country of origin	DE

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Technical data

Product properties

Product type	Limit value switch
No. of channels	2

Insulation characteristics

Pollution degree	2
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Electrical properties

Electrical isolation between input and output	no
Maximum power dissipation for nominal condition	3 W
Test voltage input/power supply	1 kV AC (50 Hz, 60 s)
Step response (10-90%)	40 ms
Maximum temperature coefficient	≤ 0.01 %/K

Supply

Nominal supply voltage	24 V DC
Supply voltage range	20 V DC ... 30 V DC
Max. current consumption	50 mA
Power consumption	< 1.5 W

Input data

Signal

Description of the input	Analog input
Configurable/programmable	Yes
Voltage input signal	0 V ... 10 V
Max. voltage input signal	13 V
Current input signal	0 mA ... 20 mA
Max. current input signal	100 mA
Input resistance of voltage input	200 kΩ
Input resistance current input	50 Ω
Internal voltage hysteresis	approx. 100 mV
Internal current hysteresis	approx. 200 μA
Setting option	2-figure momentary-contact coding switch (0 ... 99%)
	External analog value definition
	2-figure momentary-contact coding switch (0 ... 99%) and external analog value definition

Signal

Description of the input	Setpoint input
Number of inputs	2
Configurable/programmable	Yes
Voltage input signal	0 V ... 10 V
Max. voltage input signal	13 V

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Current input signal	0 mA ... 20 mA
Max. current input signal	100 mA
Input resistance of voltage input	200 kΩ
Input resistance current input	50 Ω

Output data

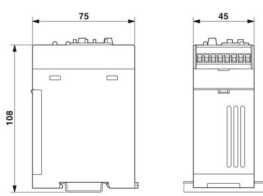
Switching: Relay

Contact switching type	2 x changeover contacts, de-energized/energized (switchable)
Contact material	Silver cadmium oxide (AgCdO)
Maximum switching voltage	250 V AC
Max. switching current	3 A
Mechanical service life	3x 10 ⁷ cycles
Setting range of the response delay	40 ms ... 4 s (adjustable)
Status display	LED

Connection data

Connection method	Screw connection
Stripping length	8 mm
Screw thread	M3
Conductor cross-section rigid	0.2 mm ² ... 2.5 mm ²
Conductor cross-section flexible	0.2 mm ² ... 2.5 mm ²
Conductor cross-section AWG	24 ... 14

Dimensions

Dimensional drawing	
Width	45 mm
Height	75 mm
Depth	108 mm

Material specifications

Color	green (RAL 6021)
Housing material	PC

Environmental and real-life conditions

Ambient conditions

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

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Approvals

CE

Certificate	CE-compliant
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UL, USA/Canada

Identification	cULus
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Mounting

Mounting type	DIN rail mounting
Mounting position	Vertical (horizontal DIN rail)

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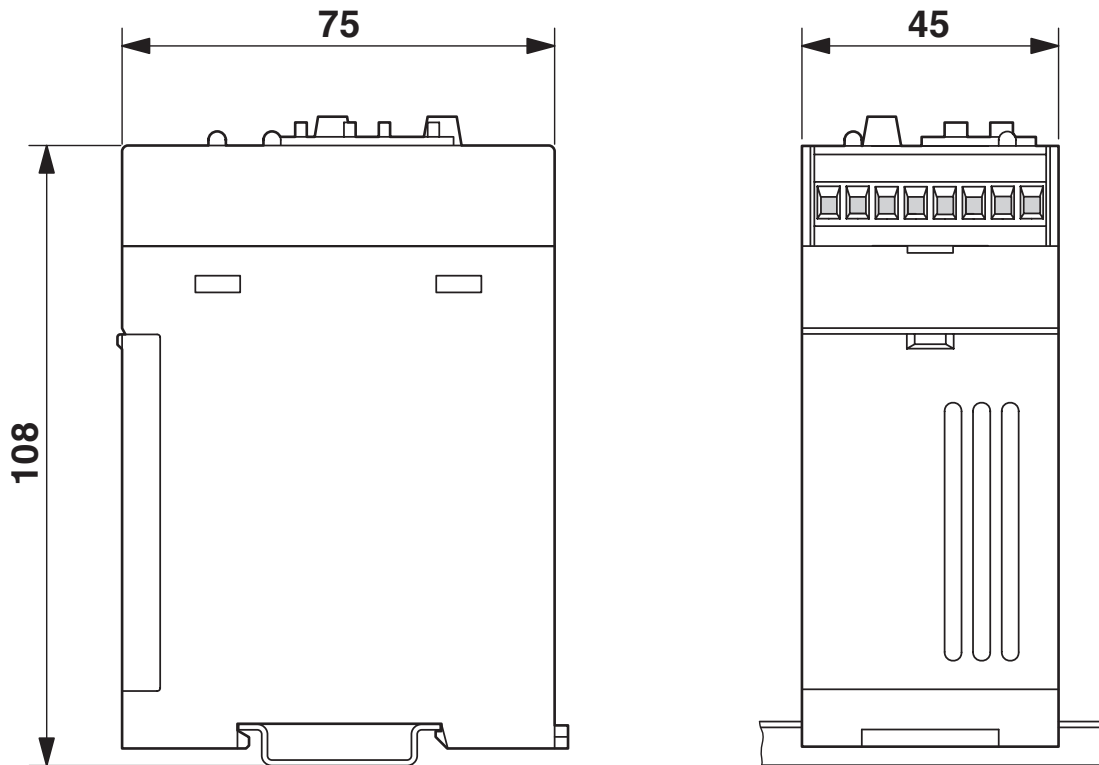


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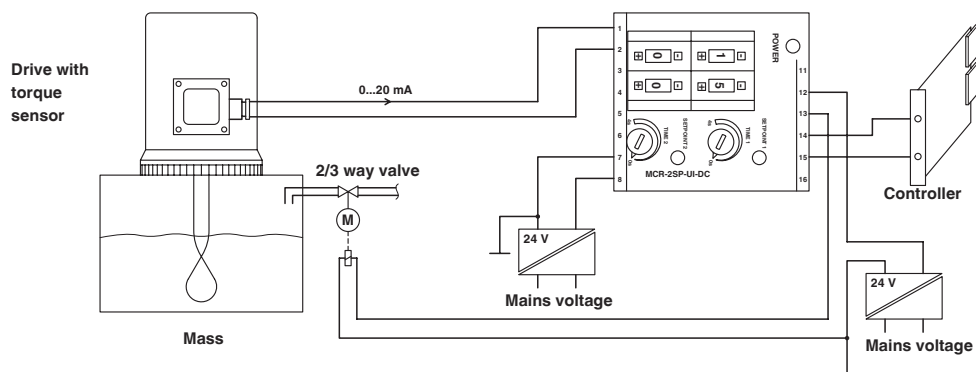
<https://www.phoenixcontact.com/us/products/2769873>

Drawings

Dimensional drawing



Application drawing

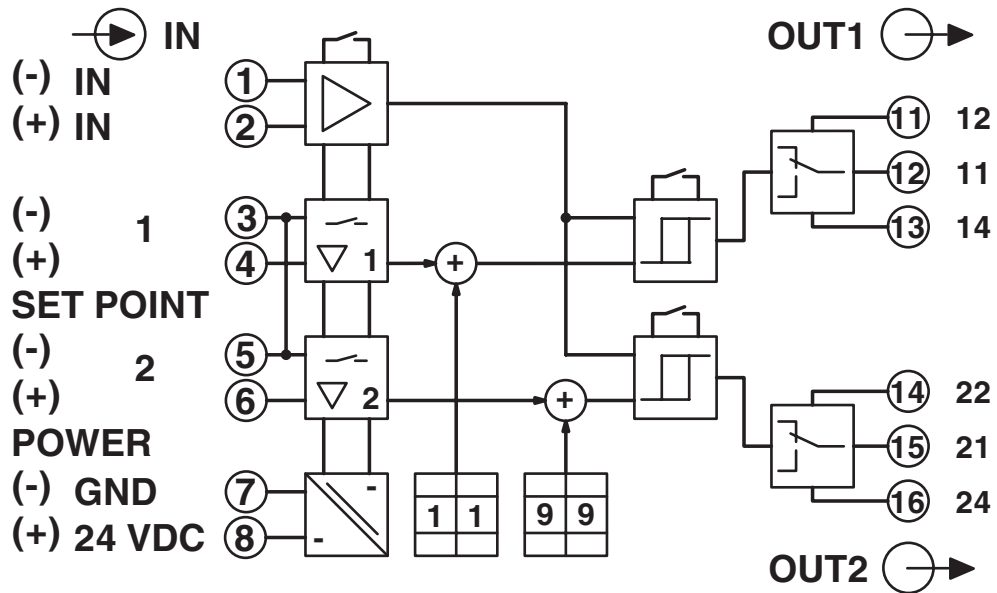


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Circuit diagram



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Environmental product compliance

China RoHS

Environment friendly use period (EFUP)	EFUP-50
	An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required.

EU REACH SVHC

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