

## Limit value switches - MCR-2SP-UI-DC - 2769873

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MCR limit value switch, with two adjustable relay contacts, with electrically isolated auxiliary power supply, input signal 0...10 V/0...20 mA

The illustration shows version MCR-2SP-UI



### Key Commercial Data

Packing unit	1 pc
GTIN	 4 017918 067694
Weight per Piece (excluding packing)	256.9 g
Custom tariff number	85389091
Country of origin	Germany

### Technical data

#### Note

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

Width	45 mm
Height	75 mm
Depth	108 mm

#### Ambient conditions

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

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### Technical data

#### Input data

Description of the input	Analog input
Configurable/programmable	Yes
Voltage input signal	0 V ... 10 V
Current input signal	0 mA ... 20 mA
Max. input voltage	13 V
Max. input current	100 mA
Input resistance of voltage input	200 k $\Omega$
Input resistance current input	50 $\Omega$
Internal hysteresis	approx. 100 mV
	approx. 200 $\mu$ A
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
Description of the input	Setpoint input
Number of inputs	2
Configurable/programmable	Yes
Voltage input signal	0 V ... 10 V
Current input signal	0 mA ... 20 mA
Max. input voltage	13 V
Max. input current	100 mA
Input resistance of voltage input	200 k $\Omega$
Input resistance current input	50 $\Omega$

#### Switching output

Output name	Relay output
Contact type	2 PDT contact, pick-up/drop-out (can be switched)
Contact material	Silver cadmium oxide (AgCdO)
Maximum switching voltage	250 V AC
Mechanical service life	3 x 10 <sup>7</sup> cycles
Setting range of the response delay	40 ms ... 4 s (adjustable)
Status display	LED
Max. switching current	3 A

#### Power supply

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

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### Technical data

#### Connection data

Connection method	Pluggable screw connection
Conductor cross section solid min.	0.2 mm <sup>2</sup>
Conductor cross section solid max.	2.5 mm <sup>2</sup>
Conductor cross section AWG min.	24
Conductor cross section AWG max.	14
Conductor cross section flexible min.	0.2 mm <sup>2</sup>
Conductor cross section flexible max.	2.5 mm <sup>2</sup>
Stripping length	8 mm
Screw thread	M3

#### General

No. of channels	2
Maximum temperature coefficient	≤ 0.01 %/K
Step response (10-90%)	40 ms
Degree of pollution	2
Test voltage input/power supply	1 kV AC (50 Hz, 1 min.)
Color	green
Housing material	PC
Mounting position	Vertical (horizontal DIN rail)
Conformance	CE-compliant
UL, USA / Canada	cULus

#### Standards and Regulations

Connection in acc. with standard	CUL
Conformance	CE-compliant
UL, USA / Canada	cULus

### Classifications

#### eCl@ss

eCl@ss 4.0	27200303
eCl@ss 4.1	27200303
eCl@ss 5.0	27200303
eCl@ss 5.1	27200303
eCl@ss 6.0	27200303
eCl@ss 7.0	27142316
eCl@ss 8.0	27210122

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## Classifications

### ETIM

ETIM 2.0	EC001440
ETIM 3.0	EC001440
ETIM 4.0	EC001440
ETIM 5.0	EC002654

### UNSPSC

UNSPSC 6.01	30211506
UNSPSC 7.0901	39121008
UNSPSC 11	39121008
UNSPSC 12.01	39121008
UNSPSC 13.2	39121008

## Approvals

### Approvals

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#### Approvals

UL Recognized / cUL Recognized / EAC / cULus Recognized

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#### Ex Approvals


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#### Approvals submitted

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## Approval details

UL Recognized 
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cUL Recognized 
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EAC
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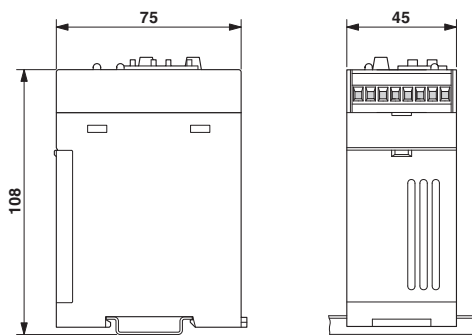
# Limit value switches - MCR-2SP-UI-DC - 2769873

## Approvals

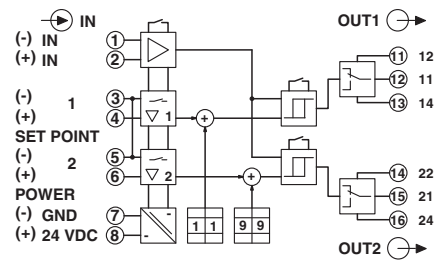


## Drawings

Dimensional drawing



Circuit diagram



Application drawing

