

## Limit value switches - MCR-PSP-DC - 2811925

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MCR threshold value switch, programmable, with electrically isolated input and 2 relay contacts

The figure shows version MCR-PSP



### Key Commercial Data

Packing unit	1 pc
GTIN	 4 017918 105549
GTIN	4017918105549

### 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	110 mm

#### Ambient conditions

Ambient temperature (operation)	-20 °C ... 65 °C
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#### Input data

Description of the input	electrically isolated
Configurable/programmable	Yes, programmable
Voltage input signal	-30 V ... 30 V
Current input signal	-30 mA ... 30 mA
Input signal	Resistance thermometer 2, 3 or 4-wire system (in acc. with DIN 43760/ DIN IEC 751 or SAMA RC 21-4-1966), e.g. PT sensors, Ni sensors etc.

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### Technical data

#### Input data

	Thermocouple sensors (in acc. with DIN IEC 584-1/DIN 43710): B, E, J, K, L, N, R, S, T, U
	Resistance: 0 kΩ ... 8 kΩ (only 2-wire connection)
	Current: - 30 mA...+ 30 mA
	Voltage: - 30 V...+ 30 V
Input resistance of voltage input	200 kΩ
Input resistance current input	50 Ω
Discontinuous control resolution	0,1 °C / 0,01 V / 0,01 mA / 0,1 Ω
Linear resistance measuring range	0 Ω ... 8000 Ω

#### Switching output

Contact type	2 x PDT contact, / 2 switching points each, pick-up/drop-out (can be switched)
Contact material	AgNi 0,15 + HTV (hard gold-plated)
Maximum switching voltage	250 V AC
Mechanical service life	2x 10 <sup>7</sup> cycles
Setting range of the response delay	0 s ... 2 s (adjustable)
Status display	LED display
Max. switching current	2 A AC

#### Power supply

Supply voltage range	20 V DC ... 30 V DC
Max. current consumption	< 60 mA

#### 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	1
Maximum transmission error	0.1 % (of final value)
Maximum temperature coefficient	≤ 0.01 %/K
Measuring rate	2 Hz
Status display	5-position 7-segment display and LEDs
Display resolution	0,1 °C / 0,01 V / 0,01 mA / 0,1 Ω
Protective circuit	Transient protection, polarity protection



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