

Limit value switches - MCR-PSP-DC



2811925

<https://www.phoenixcontact.com/us/products/2811925>

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



Commercial Data

Item number	2811925
Packing unit	1 pc
Minimum order quantity	1 pc
Note	Made to Order (non-returnable)
Sales Key	C01
Product Key	CK1843
Catalog Page	Page 138 (C-7-2015)
GTIN	4017918105549
Weight per Piece (including packing)	307.8 g
Weight per Piece (excluding packing)	307.8 g
Customs tariff number	85389091
Country of origin	DE

Technical Data

Notes

Utilization restriction

EMC note	EMC: class A product, see manufacturer's declaration in the download area
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Product properties

Product type	Threshold value switch
No. of channels	1
Display resolution	0,1 °C / 0,01 V / 0,01 mA / 0,1 Ω

Electrical properties

No. of channels	1
Maximum power dissipation for nominal condition	1.8 W
Measuring rate	2 Hz
Test voltage input/power supply	1 kV AC (50 Hz, 60 s)
Protective circuit	Transient protection, polarity protection
Maximum temperature coefficient	≤ 0.01 %/K
Maximum transmission error	0.1 % (of final value)

Supply

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

Input data

Signal:

Description of the input	electrically isolated
Configurable/programmable	Yes, programmable
Voltage input signal	-30 V ... 30 V
Current input signal	-30 mA ... 30 mA
Available input sources	Resistance temperature detectors in 2-, 3- or 4-conductor technology (in accordance with DIN 43760/DIN IEC 751 or SAMA RC 21-4-1966), e.g., PT sensors, Ni sensors, etc. 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 (2-conductor circuit only) 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

Measurement

	-200 °C ... 850 °C (freely adjustable)
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Sensor type:	-200 °C ... 850 °C (freely adjustable)
	-200 °C ... 850 °C (freely adjustable)
	-200 °C ... 850 °C (freely adjustable)
	-200 °C ... 850 °C (freely adjustable)
	-60 °C ... 180 °C (freely adjustable)
	-60 °C ... 180 °C (freely adjustable)
	-60 °C ... 180 °C (freely adjustable)
	-60 °C ... 180 °C (freely adjustable)
	-60 °C ... 180 °C (freely adjustable)
	-50 °C ... 160 °C (freely adjustable)
	-70 °C ... 500 °C (freely adjustable)
	-200 °C ... 600 °C (freely adjustable)
	-200 °C ... 400 °C (freely adjustable)
	-200 °C ... 900 °C (freely adjustable)
	-210 °C ... 1200 °C (freely adjustable)
	-226 °C ... 1000 °C (freely adjustable)
	-200 °C ... 1372 °C (freely adjustable)
	-200 °C ... 1300 °C (freely adjustable)
	-50 °C ... 1768 °C (freely adjustable)
	-50 °C ... 1768 °C (freely adjustable)
	500 °C ... 1820 °C (freely adjustable)
Linear resistance measuring range	0 Ω ... 8000 Ω

Output data

Switching: Relay

Contact type	2 x changeover contacts / 2 switching points each, de-energized/energized (switchable)
Contact material	AgNi 0,15 + HTV (hard gold-plated)
Maximum switching voltage	250 V AC
Max. switching current	2 A AC
Mechanical service life	2x 10 ⁷ cycles
Setting range of the response delay	0 s ... 2 s (adjustable)
Status display	LED display

Connection data

Connection method	Pluggable screw connection
Stripping length	8 mm
Screw thread	M3
Conductor cross section solid	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

LED signaling

Status display	5-position 7-segment display and LEDs
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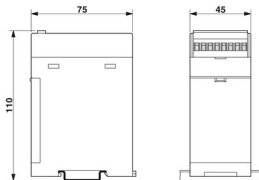
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Dimensions

Dimensional drawing		
Width		45 mm
Height		75 mm
Depth		110 mm

Material specifications

Housing material	ABS
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Environmental and real-life conditions

Ambient conditions

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

CE

Certificate	CE-compliant
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UL, USA / Canada

Identification	cULus
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EMC data

Noise emission	EN 61000-6-4
Noise immunity	EN 61000-6-2:2005

Mounting

Mounting type	DIN rail mounting
Mounting position	any

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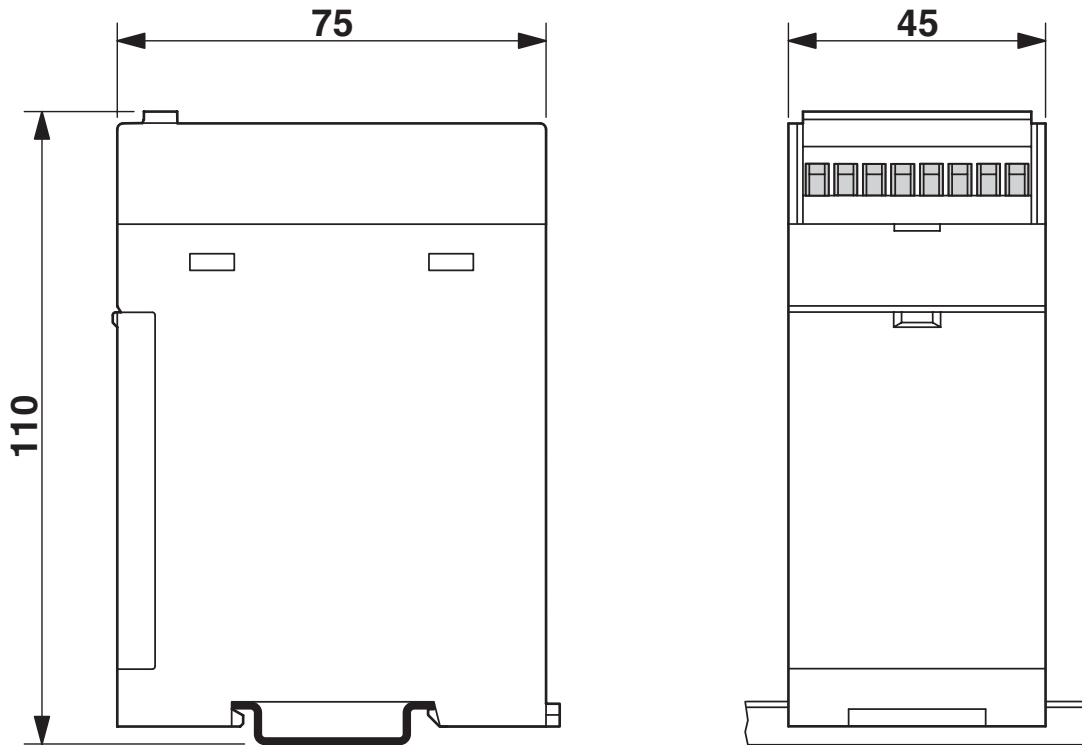
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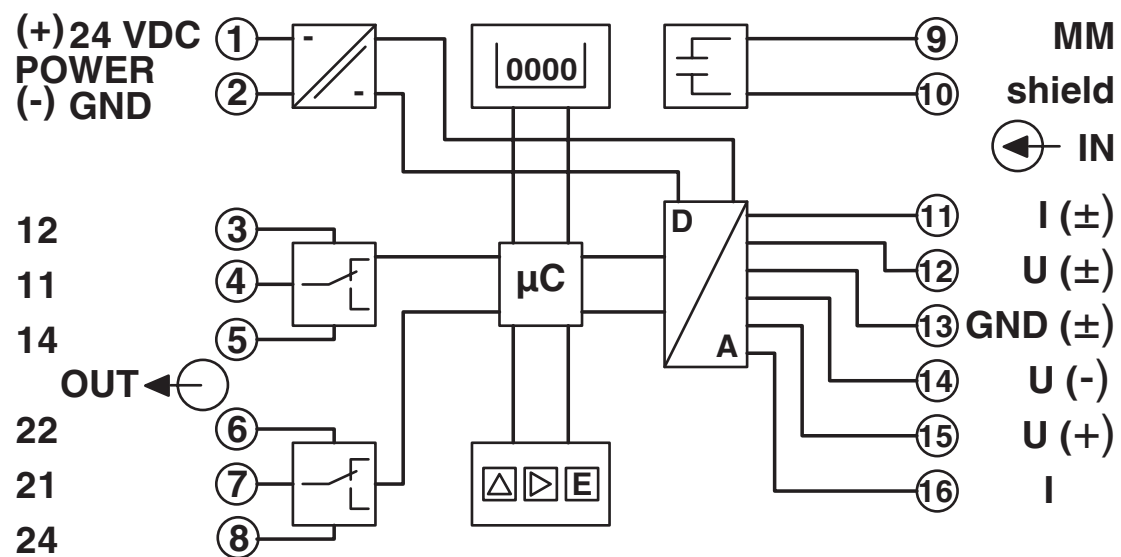


Drawings

Dimensional drawing



Circuit diagram



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Classifications

ECLASS

ECLASS-9.0	27210120
ECLASS-10.0.1	27210120
ECLASS-11.0	27210120

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Accessories

Cable

Cable - CM-KBL-RS232/USB - 2881078

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Connecting cable D-9-SUB to USB, with adapter D-9-SUB to D-25-SUB.



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