

## 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 illustration shows version MCR-PSP



### Key commercial data

Packing unit	1 pc
GTIN	 4 017918 105549
Weight per Piece (excluding packing)	307.0 GRM
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	110 mm

#### Ambient conditions

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

Description of the input	electrically isolated
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### Technical data

#### Input data

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

#### 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	2 x 10 <sup>7</sup> cycles
Setting range of the response delay	0 s ... 2 s (adjustable)
Status display	LED display

#### 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/kcmil min.	24
Conductor cross section AWG/kcmil max.	14
Conductor cross section stranded min.	0.2 mm <sup>2</sup>
Conductor cross section stranded max.	2.5 mm <sup>2</sup>
Stripping length	8 mm
Screw thread	M3

#### General

No. of channels	1
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### Technical data

#### General

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
Test voltage input/power supply	1 kV AC (50 Hz, 1 min.)
Noise emission	EN 61000-6-4
Noise immunity	EN 61000-6-2:2005
Color	green
Housing material	ABS
Mounting position	any
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	27210122
eCl@ss 8.0	27210122

#### ETIM

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

#### UNSPSC

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

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### Approvals

Approvals

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Approvals

UL Recognized / cUL Recognized / GOST / cULus Recognized

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Ex Approvals


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Approvals submitted


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### Approval details

UL Recognized 

cUL Recognized 

GOST 

cULus Recognized 

### Accessories

Accessories

Arrester test system

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## Accessories

Conductor - CM-KBL-RS232/USB - 2881078



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

## Configuration and diagnostics

Configuration software - MCR/PI-CONF-WIN - 2814799



PI/MCR configuration software for programming PI-EX-RTD..., PI-EX-TC..., MCR-T..., MCR-PSP..., MCR-f..., and MCR-S... modules. This software is available to download free of charge at - phoenixcontact.com.

## Programming adapter

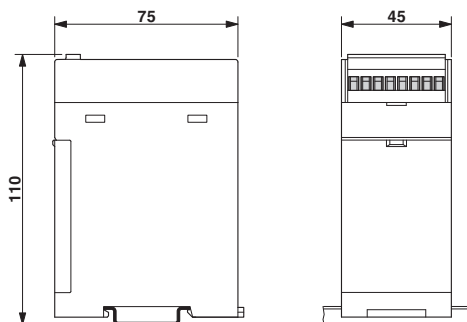
Adapter cable - MCR-TTL-RS232 - 2814391



Software adapter cable (6-pos./D-SUB 25-pos.), 1.5 m, for programming MCR-PSP modules

## Drawings

Dimensioned drawing



Circuit diagram

