

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

package_quantity	1
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.
Input signal	Thermocouple sensors (in acc. with DIN IEC 584-1/DIN 43710): B, E, J, K, L, N, R, S, T, U
Input signal	Resistance: 0 kΩ ... 8 kΩ (only 2-wire connection)
Input signal	Current: - 30 mA...+ 30 mA
Input signal	Voltage: - 30 V...+ 30 V

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Input data

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

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 ⁷ 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 ²
Conductor cross section solid max.	2.5 mm ²
Conductor cross section AWG/kcmil min.	24
Conductor cross section AWG/kcmil max	14
Conductor cross section stranded min.	0.2 mm ²
Conductor cross section stranded max.	2.5 mm ²
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
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

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Technical data

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

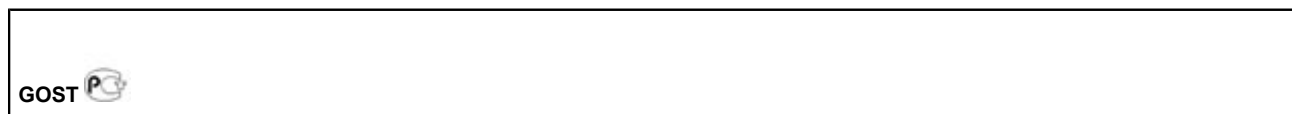
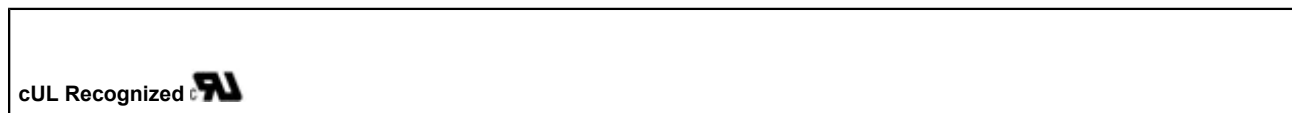
UNSPSC

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

approvals

UL Recognized / cUL Recognized / GOST / cULus Recognized /

Approval details



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approvals

cULus Recognized  US

accessories

Configuration and diagnostics

MCR/PI-CONF-WIN - 2814799



Programming adapter

MCR-TTL-RS232 - 2814391



Arrester test system

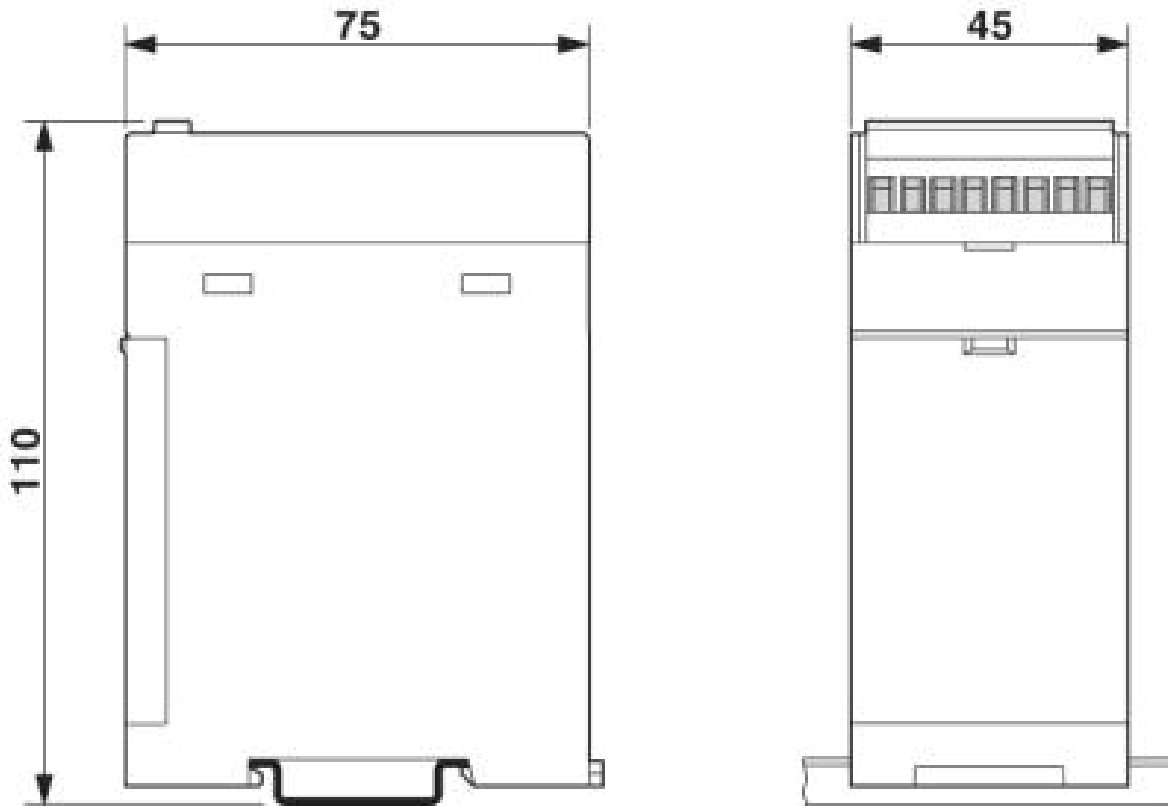
CM-KBL-RS232/USB - 2881078



Drawings

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Dimensioned drawing



Circuit diagram

