MCR-SL-D-U-I - Digital display

2864011

https://www.phoenixcontact.com/us/products/2864011

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MCR digital display, for measurement and display of standard signals, 5-fig. display

Your advantages

- 48 x 24 mm display
- 8 mm LED, 7-segment
- Min./max. value saving
- 5-digit display
- For 0 ... 10 V and 0(4) ... 20 mA standard analog signals
- Electrical isolation
- Programmable
- Freely programmable decimal point display

Commercial data

Item number	2864011
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	C401
Product key	DK1141
GTIN	4017918820718
Weight per piece (including packing)	86 g
Weight per piece (excluding packing)	96 g
Customs tariff number	90303370
Country of origin	DE

Technical data

Product properties

Product type	Digital displays
Configuration	Keyboard

System properties

Functionality

Configuration	Keyboard

Electrical properties

Maximum power dissipation for nominal condition	1.46 W
Test voltage (Input/supply)	500 V_{rms} (50/60 Hz, 1 min.)
Maximum temperature coefficient	< 0.07 %/K
Maximum transmission error	± 0.1 % (of final value)

Supply

Supply voltage range	10 V DC ... 30 V DC
Max. current consumption	50 mA
Power consumption	≤ 1.5 W

Input data

Signal

Voltage input signal	0 V ... 10 V
	2 V ... 10 V
Max. voltage input signal	30 V DC
Current input signal	0 mA ... 20 mA
	4 mA ... 20 mA
Max. current input signal	50 mA
Switching level "1" signal	4 V DC ... 30 V DC
Switching level "0" signal	0 V DC ... 2 V DC
Input resistance of voltage input	> 1 MΩ
Input resistance current input	approx. 100 Ω with 5 mA / approx. 70 Ω with 20 mA
Resolution inputs (voltage)	1 mV
Resolution inputs (current)	2 µA
System hum suppression	Digital filtering 50/60 Hz
Input latch signal	Display stop
Measuring rate	$0.1s^{-1}$ / $0.5s^{-1}$

Output data

Signal

D/A converter resolution	14 bit
Number of positions displayed	5

Display	7-segment LED; 8 mm; red

Connection data

Connection method	Screw connection
Stripping length	8 mm
Screw thread	M3
Conductor cross-section rigid	0.14 mm² ... 1.5 mm²
Conductor cross-section flexible	0.14 mm² ... 1.5 mm²
Conductor cross-section AWG	26 ... 16

Dimensions

Width	48 mm
Height	24 mm
Depth	68 mm

Material specifications

Housing material	Macrolon 2405

Environmental and real-life conditions

Ambient conditions

Degree of protection	IP65 (Front)
Ambient temperature (operation)	-20 °C ... 65 °C
Ambient temperature (storage/transport)	-25 °C ... 70 °C

Approvals

CE

Certificate	CE-compliant

UL, USA/Canada

Identification	UL 863

EMC data

Noise immunity	EN 61000-6-2
	EN 61000-4-2

Noise emission

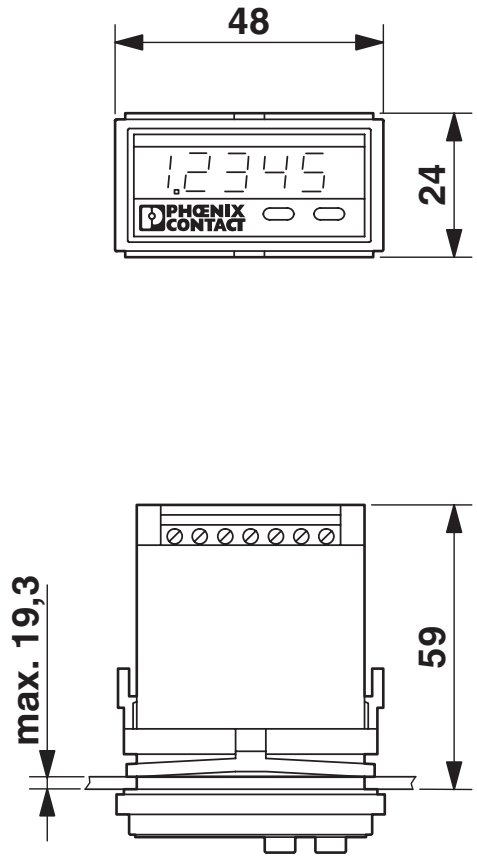
Standards/regulations	EN 55011 / class B

Mounting

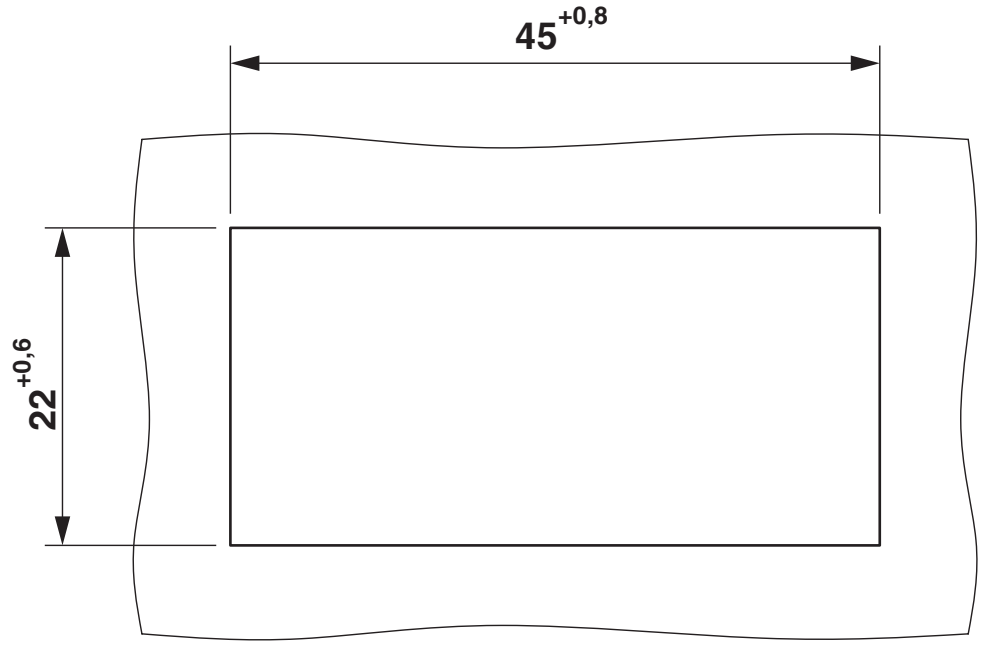
Mounting type	Panel mount

Drawings

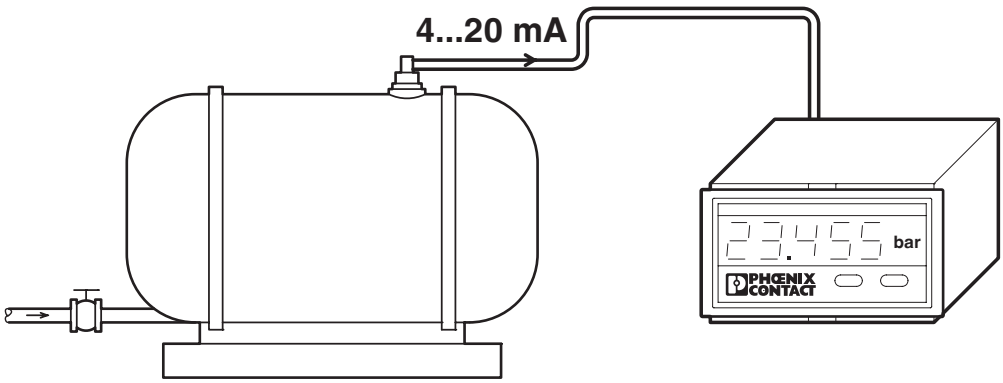
Dimensional drawing



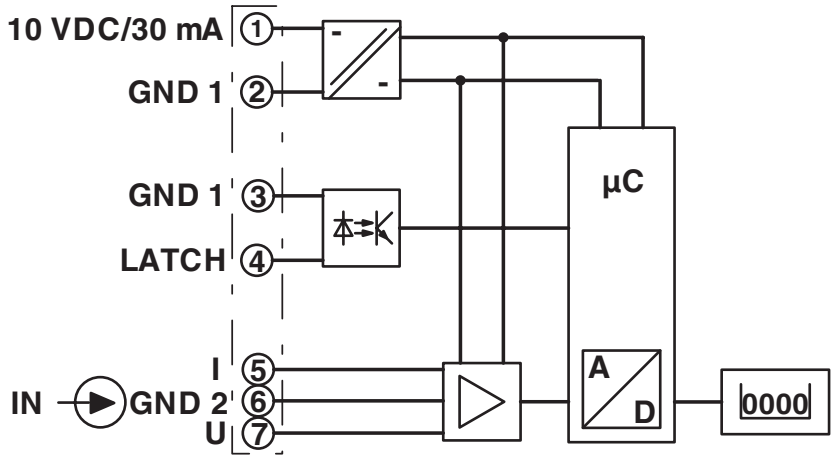
Dimensional drawing



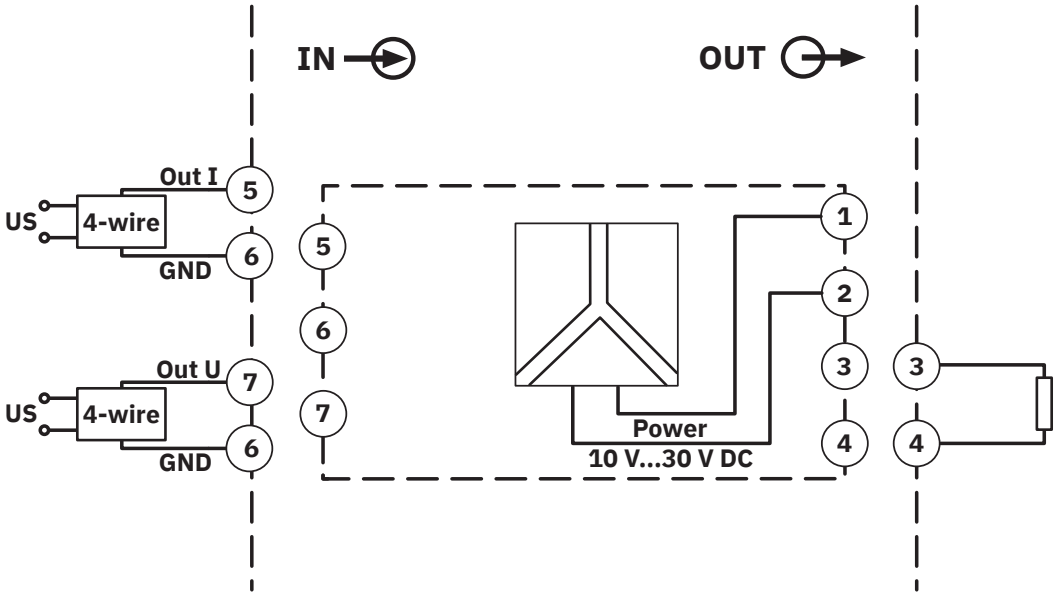
Application drawing



Circuit diagram



Block diagram



Classifications

ECLASS

ECLASS-13.0	27210301
ECLASS-15.0	27210301

ETIM

ETIM 10.0	EC011349

UNSPSC

UNSPSC 21.0	39121000

Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes, No exemptions

China RoHS

Environment friendly use period (EFUP)	EFUP-E
	No hazardous substances above the limits

EU REACH SVHC

REACH candidate substance (CAS No.)	No substance above 0.1 wt%

EF3.1 Climate Change

CO2e kg	13.052 kg CO2e

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