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
No. of channels	1
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/current

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: digital

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

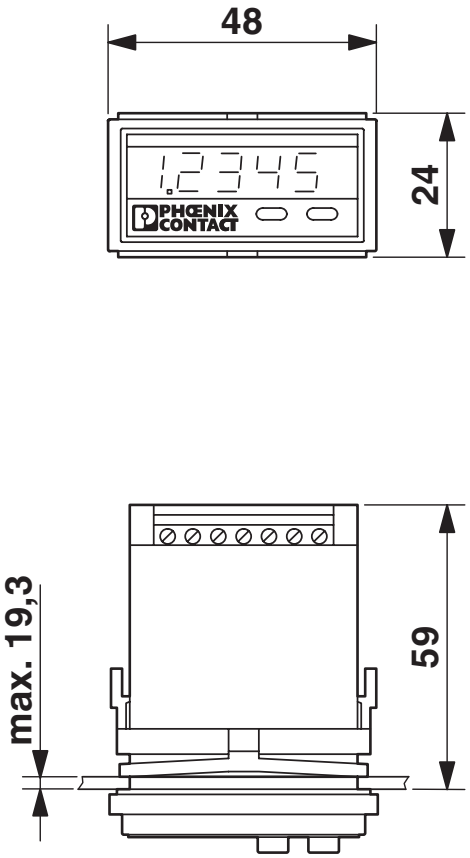
Standards/regulations	EN 55011 / class B

Mounting

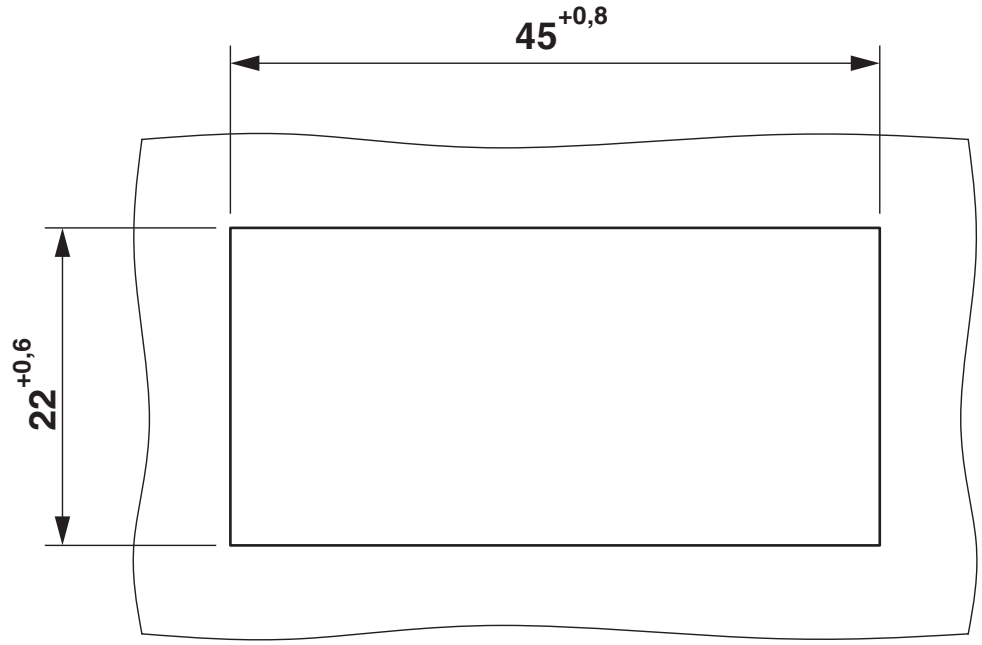
Mounting type	Panel mount

Drawings

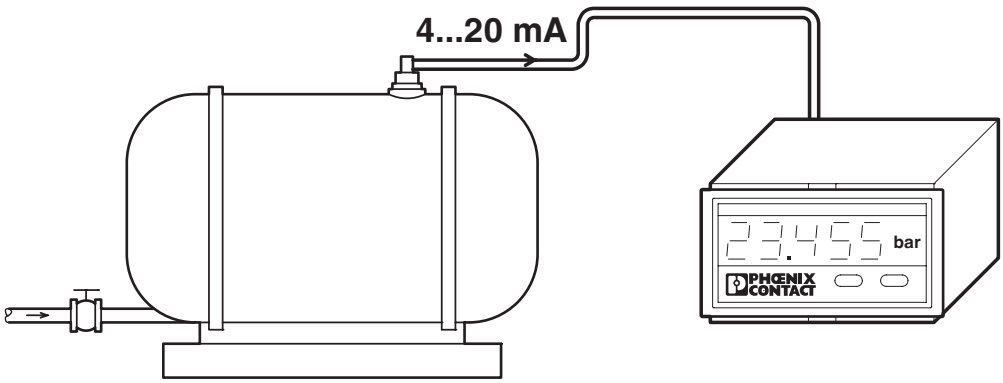
Dimensional drawing



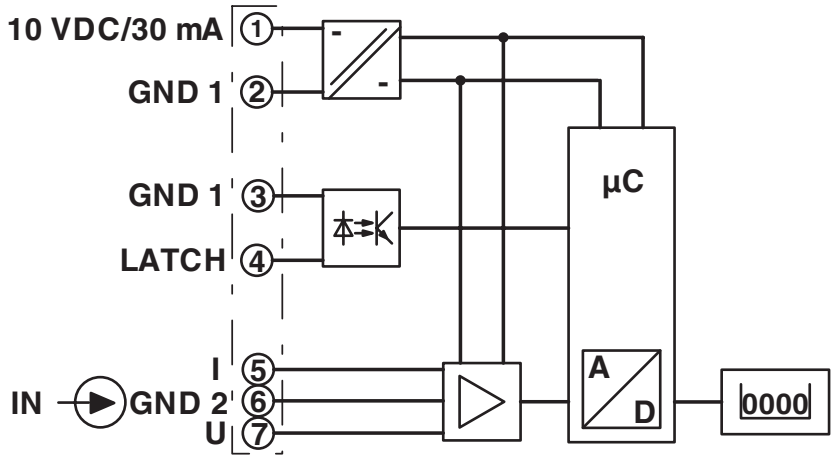
Dimensional drawing



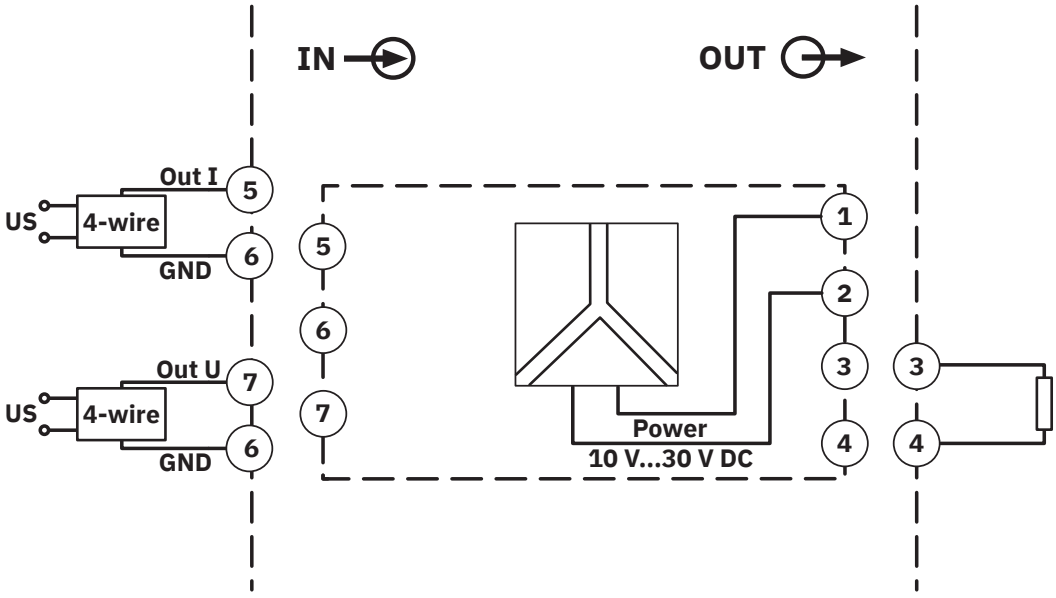
Application drawing



Circuit diagram



Block diagram



Approvals

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cUL Recognized
Approval ID: FILE E 197577

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EAC
Approval ID: RU*DE.*08.B.01522/19

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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