

MCR-FL-D-T-2SP- 24 - Digital display



2864231

<https://www.phoenixcontact.com/us/products/2864231>

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MCR digital display, for measurement and display of temperatures and linear mV characteristic curves, auxiliary power supply 24 V DC



Commercial data

Item number	2864231
Packing unit	1 pc
Note	Made to order (non-returnable)
Sales key	NULL
Product key	DK1141
GTIN	4017918820701
Weight per piece (including packing)	341.3 g
Weight per piece (excluding packing)	341.3 g
Customs tariff number	90291000
Country of origin	DE

Technical data

Product properties

Product type	Display module
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Electrical properties

Test voltage, input/output/supply	500 V _{rms} / 2.3 kV _{rms} , 50/60 Hz, 1 min.
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Supply

Supply voltage range	10 V DC ... 30 V DC
Power consumption	max. 2 W

Input data

Signal

Max. voltage input signal	10 V DC
Available input sources	Resistance thermometers in 2, 3 or 4-conductor technology (in accordance with DIN 43760/DIN IEC 751), e.g. Pt 100/Pt 1000 (-200...+800°C) Thermocouple sensors (in accordance with DIN IEC 584-1/DIN 43710): B, E, J, K, N, R, S, T
Switching level "1" signal	4 V DC ... 30 V DC
Switching level "0" signal	0 V DC ... 2 V DC
System hum suppression	Digital filtering 50/60 Hz
Input reset impulse	> 5 ms to reset the totalizer / the relay outputs
Measuring rate	1 measurement/second

Measurement

Input resistance of voltage input	> 2 MΩ
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Measurement

Temperature measuring range: Pt 100	-200 °C ... 800 °C (freely adjustable)
Temperature measuring range: Pt 1000	-200 °C ... 800 °C (freely adjustable)
Temperature measuring range: Thermoelement Typ B	0 °C ... 1820 °C (freely adjustable)
Temperature measuring range: Thermoelement Typ E	-200 °C ... 1000 °C (freely adjustable)
Temperature measuring range: Thermoelement Typ J	-210 °C ... 1200 °C (freely adjustable)
Temperature measuring range: Thermoelement Typ K	-200 °C ... 1372 °C (freely adjustable)
Temperature measuring range: Thermoelement Typ N	-200 °C ... 1300 °C (freely adjustable)
Temperature measuring range: Thermoelement Typ R	-50 °C ... 1760 °C (freely adjustable)
Temperature measuring range: Thermoelement Typ S	-50 °C ... 1760 °C (freely adjustable)
Temperature measuring range: Thermoelement Typ T	-210 °C ... 400 °C (freely adjustable)
Linear resistance measuring range	0 Ω ... 4000 Ω (Fault tolerance ± 2 Ω) 0 Ω ... 400 Ω (Fault tolerance ± 0.2 Ω)
Linear mV signal range	0 mV ... 100 mV -100 mV ... 100 mV

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Output data

Switching:

Contact switching type	2 changeover contacts
Contact material	AgCdO
Maximum switching voltage	300 V DC 250 V AC
Min. switching current	30 mA DC
Max. switching current	3 A
Interrupting rating (ohmic load) max.	50 W 2000 VA

Connection data

Connection method	Pluggable screw connection
Stripping length	8 mm
Screw thread	M2
Conductor cross-section rigid	0.14 mm ² ... 1 mm ²
Conductor cross-section flexible	0.14 mm ² ... 1.5 mm ²
Conductor cross-section AWG	26 ... 16
Connection method	Pluggable screw connection
Stripping length	8 mm
Screw thread	M3
Conductor cross-section rigid	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

Dimensions

Width	96 mm
Height	48 mm
Depth	93.1 mm

Material specifications

Housing material	Macrolon 2405
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Environmental and real-life conditions

Ambient conditions

Degree of protection	IP65 (Front)
Ambient temperature (operation)	-20 °C ... 65 °C
Ambient temperature (storage/transport)	-40 °C ... 85 °C

Approvals

CE

Certificate	CE-compliant
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UL, USA/Canada

Identification

UL 508 Recognized

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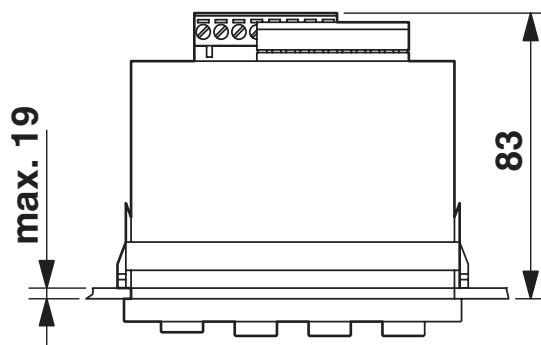
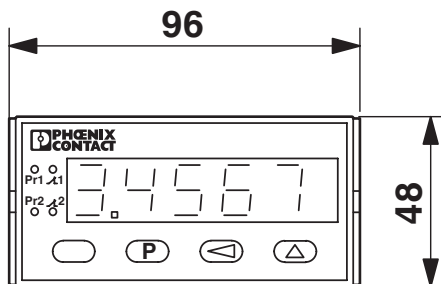
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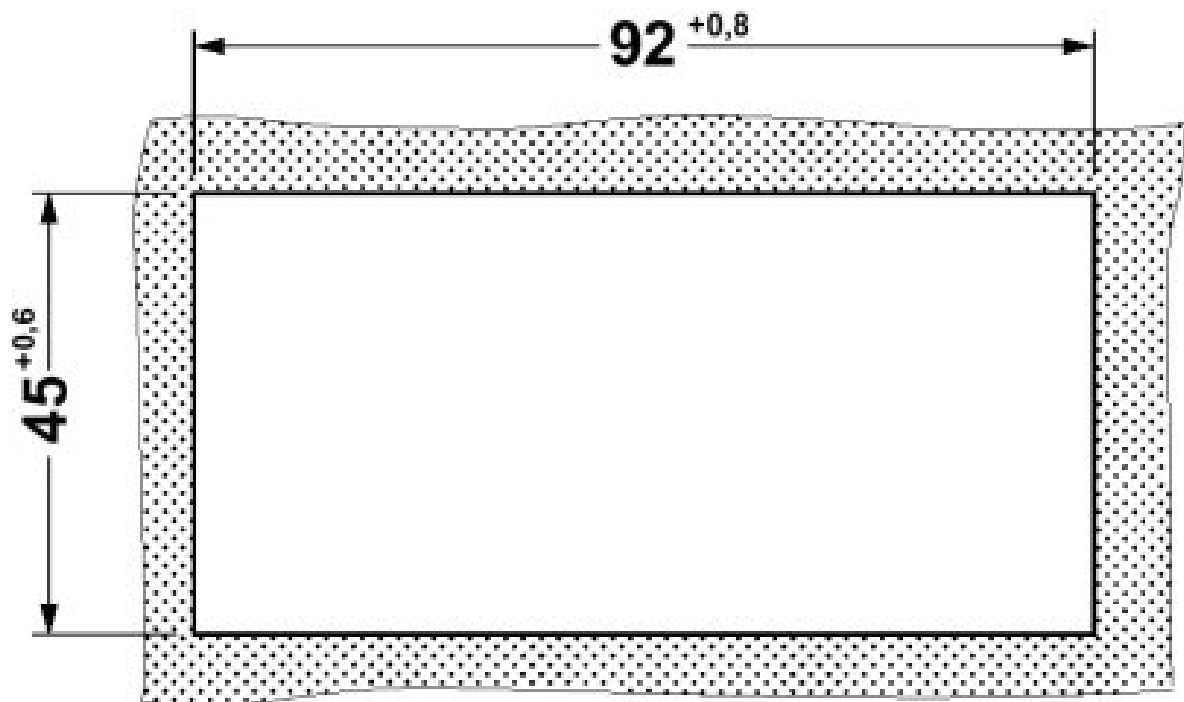


Drawings

Dimensional drawing



Dimensional drawing

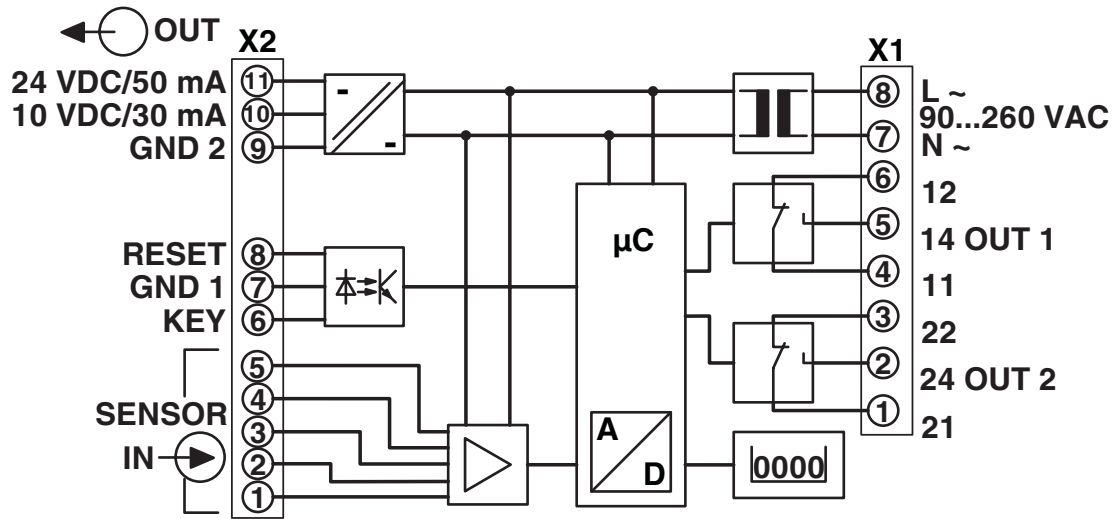


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Circuit diagram



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Environmental product compliance

China RoHS

Environment friendly use period (EFUP)	EFUP-50
	An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required.

EU REACH SVHC

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