MCR-SL-D-SPA-UI - Setpoint adjuster

2710314

https://www.phoenixcontact.com/us/products/2710314

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Digital setpoint encoders with manual and automatic ramp for defining current and voltage signals, 4-pos. display

Your advantages

- Automatic setpoint definition with hold function and 20 interpolation points
- Manual setpoint definition via direct input
- Flexible, adjustable signal ranges of 0 ... 12 V or 0 ... 24 mA
- Data backup in the event of power failure
- Manual setpoint definition with incremental setting
- Display value parameterization
- Electrical isolation between output and supply

Commercial data

Item number	2710314
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	C401
Product key	DK1141
GTIN	4046356091190
Weight per piece (including packing)	90.2 g
Weight per piece (excluding packing)	100 g
Customs tariff number	90328900
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	0.8 W (20 mA, 500 Ω)
Test voltage (Output/supply)	500 V AC (50 Hz, 60 s)
Maximum temperature coefficient	0.02 %/K
Maximum transmission error	< 0.2 % ((full-scale) at rated voltage)

Supply

Supply voltage range	10 V DC ... 30 V DC
Power consumption	1 W (With 24 mA/12 V)

Input data

Signal: digital

Display	7-segment, 8 mm, red
Number of positions displayed	4.00
Switching level "1" signal	4 V DC ... 30 V DC
Switching level "0" signal	0 V DC ... 2 V DC
Measuring rate	$0.1s^{-1}$ / $0.5s^{-1}$

Output data

Signal: Voltage/current

Voltage output signal	0 V ... 12 V
Current output signal	0 mA ... 24 mA
Load/output load voltage output	≥ 2 kΩ
Load/output load current output	≤ 500 Ω (up to 20 mA)
	≤ 400 Ω (> 20 mA)
Ripple	≤ 10 mV_{PP}
Number of positions displayed	4
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 ... 85 °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

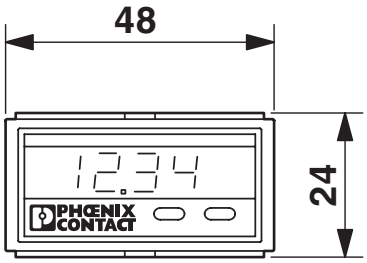
Standards/regulations	EN 55011 / class B

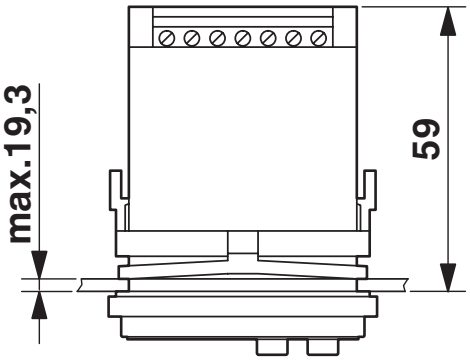
Mounting

Mounting type	Panel mount

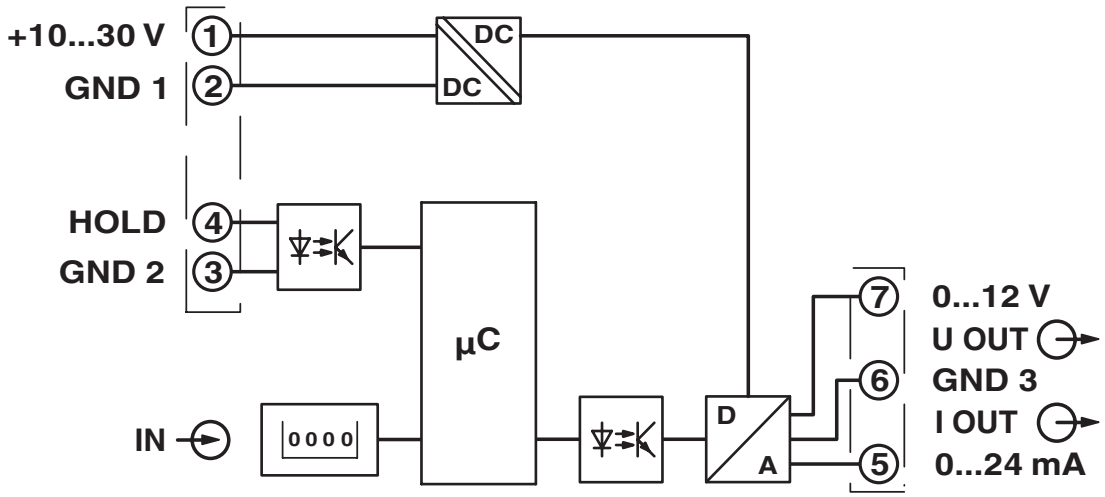
Drawings

Dimensional drawing

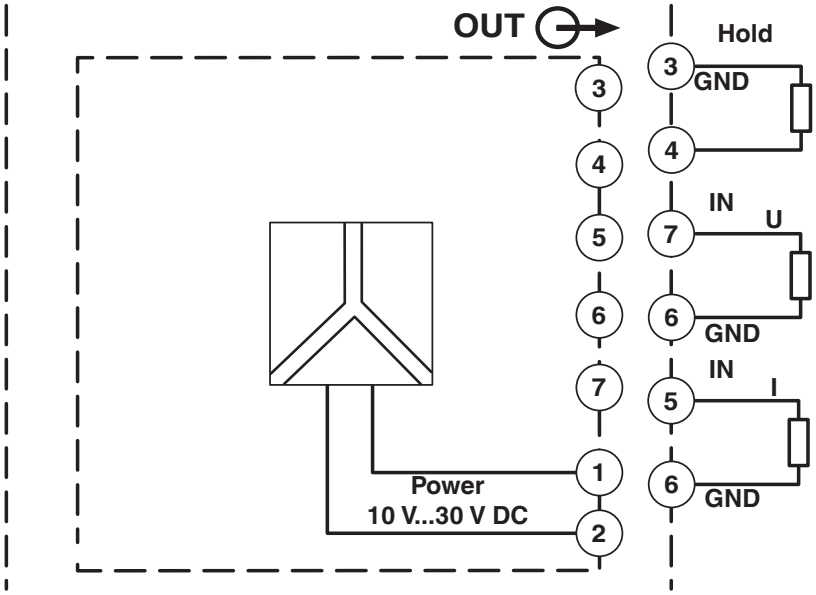




Circuit diagram



Block diagram



Block diagram MCR-SL-D-SPA-UI

Approvals

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cUL Recognized
Approval ID: FILE E 197577

UL Recognized
Approval ID: FILE E 197577

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%

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