

MINI MCR-SL-R-UI - Resistance/potiposition transducer



2864095

<https://www.phoenixcontact.com/ro/produse/2864095>

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MCR potiposition transducer for conversion of potentiometer positions into a standard analog signal, 0 Ω input... 100 Ω to 0 k Ω ... 100 k Ω

Descriere produs

The narrow 6.2 mm MINI MCR-SL-R-UI... potiposition transducer converts potentiometer positions into a standard analog signal on a percentage basis. If the potentiometer range cannot be utilized to the full, an externally accessible slide switch is used to set the upper and lower potentiometer final values. The output signal between 0% and 100% is based on this set final value.

The DIP switches, which can be accessed on the side of the housing, are used to configure the following parameters:

- Output signal
- Automatic potentiometer detection
- Wire-break detection slider
- Type of error evaluation

Power (19.2 V DC to 30 V DC) can either be supplied via the connection terminal blocks of the modules or in conjunction with the DIN rail connector.

Avantajele dumneavoastră

- Power supply possible via the foot element (TBUS)
- Automatic potentiometer detection without manual adjustment
- Error indication via diagnostic LED and analog signal
- For 100 Ω to 100 k Ω potentiometers
- potentiometer signals to create standard signals
- Configurable measuring range and output signals
- Highly-compact potentiometer transducer for electrical isolation, conversion, amplification, and filtering of
- Input and output signals can be configured via DIP switches
- 3-way isolation
- A potentiometer sub-range can be linearized via the "teach-in" switch on the device

Date comerciale

Număr articol	2864095
Unitate de ambalare	1 Bucată
Cantitate minimă pentru comandă	1 Bucată
Cod produs	CK1232
Pagina de catalog	Pagina 111 (C-7-2015)
GTIN	4046356046442
Greutate pe bucată (inclusiv ambalajul)	98,2 g
Greutate pe bucată (fără ambalaj)	73,17 g

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Cod tarifar vamal	85437090
Țara de origine	DE

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Date tehnice

Notes

Utilization restriction

EMC note	EMC: class A product, see manufacturer's declaration in the download area
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Product properties

Product type	Potiposition transducer
Product family	MINI Analog
No. of channels	1
Configuration	DIP switches

Data management status

Article revision	15
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Insulation characteristics

Overvoltage category	II
Pollution degree	2

System properties

Functionality

Configuration	DIP switches
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Electrical properties

Maximum power dissipation for nominal condition	235.5 mW
Step response (0–99%)	< 30 ms
Maximum temperature coefficient	< 0.02 %/K
Temperature coefficient, typical	< 0.02 %/K
Maximum transmission error	< 0.2 %

Electrical isolation Input/output/power supply

Rated insulation voltage	30 V AC
	50 V DC
Test voltage	1.5 kV AC (50 Hz, 60 s)
Insulation	Basic insulation in accordance with IEC/EN 61010

Supply

Nominal supply voltage	24 V DC
Supply voltage range	19.2 V DC ... 30 V DC (The DIN rail connector (ME 6,2 TBUS-2 1,5/5-ST-3,81 GN, item no. 2869728) can be used to bridge the supply voltage. It can be snapped onto a 35 mm DIN rail in accordance with EN 60715)
Typical current consumption	< 25 mA (at 24 V DC)
Power consumption	< 500 mW

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Input data

Signal: Resistance

Number of inputs	1
Resistance range	100 Ω ... 100 k Ω
Reference voltage source	< 3.6 V

Output data

Signal: Voltage/current

Number of outputs	1
Voltage output signal	0 V ... 5 V
	1 V ... 5 V
	0 V ... 10 V
	10 V ... 0 V
Max. voltage output signal	12.5 V
Non-load voltage	$\approx$  $\oplus$ V
Current output signal	0 mA ... 20 mA
	4 mA ... 20 mA
	20 mA ... 0 mA
	20 mA ... 4 mA
Max. current output signal	23 mA
Short-circuit current	$\approx$  mA
Load/output load voltage output	> 10 k Ω
Load/output load current output	< 500 Ω (20 mA)
Ripple	< 20 mV _{PP} (500 Ω)
	< 20 mV _{PP} (10 k Ω)
Behavior in the event of a sensor error	0 % ... 105 % (configurable)

Connection data

Connection method	Screw connection
Stripping length	12 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	26 ... 12

Signaling

Error indication	Red LED
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Dimensions

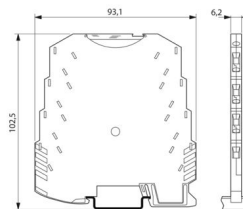
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Dimensional drawing



Width	6.2 mm
Height	93.1 mm
Depth	101.2 mm

Material specifications

Color	green (RAL 6021)
Housing material	PBT
Fire protection for rail vehicles (DIN EN 45545-2) R22	HL 1 - HL 2
Fire protection for rail vehicles (DIN EN 45545-2) R23	HL 1 - HL 2
Fire protection for rail vehicles (DIN EN 45545-2) R24	HL 1 - HL 2

Environmental and real-life conditions

Ambient conditions

Degree of protection	IP20
Ambient temperature (operation)	-20 °C ... 65 °C
Ambient temperature (storage/transport)	-40 °C ... 85 °C
Altitude	≤ 2000 m
Permissible humidity (operation)	5 % ... 95 % (non-condensing)

Approvals

CE

Certificate	CE-compliant
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UKCA

Certificate	UKCA-compliant
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UL, USA/Canada

Identification	UL 508 Recognized
	Class I, Div. 2, Groups A, B, C, D T4

Shipbuilding approval

Certificate	DNV GL TAA000020N
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DNV GL data

Temperature	B
Humidity	B
Vibration	B
EMC	A

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Enclosure	Required protection according to the Rules shall be provided upon installation on board
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EMC data

Noise immunity	EN 61000-6-2
Note	When being exposed to interference, there may be minimal deviations.
Electromagnetic compatibility	Conformance with EMC directive
Noise emission	EN 61000-6-4

Electromagnetic HF field

Designation	Electromagnetic RF field
Standards/regulations	EN 61000-4-3
Typical deviation from the measuring range final value	5 %

Fast transients (burst)

Designation	Fast transients (burst)
Standards/regulations	EN 61000-4-4
Typical deviation from the measuring range final value	5 %

Conducted interference

Designation	Conducted interferences
Standards/regulations	EN 61000-4-6
Typical deviation from the measuring range final value	5 %

Mounting

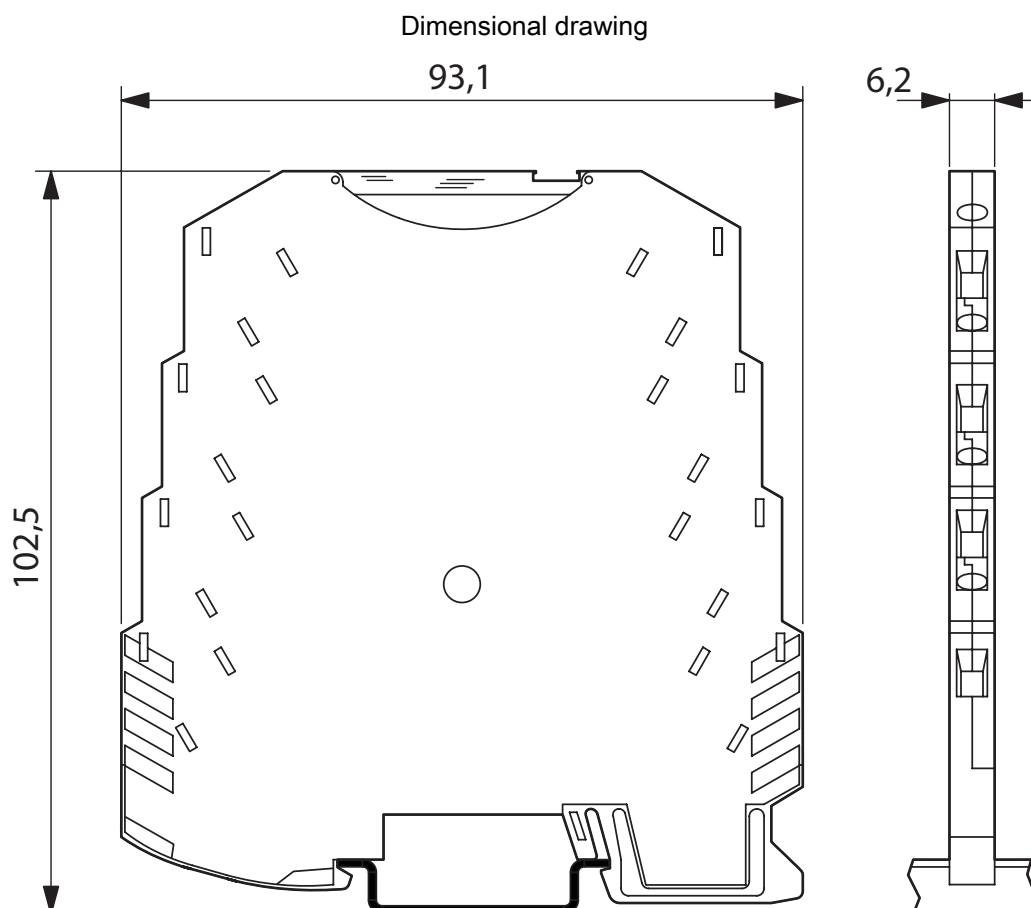
Mounting type	DIN rail mounting
Mounting position	any

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Desene

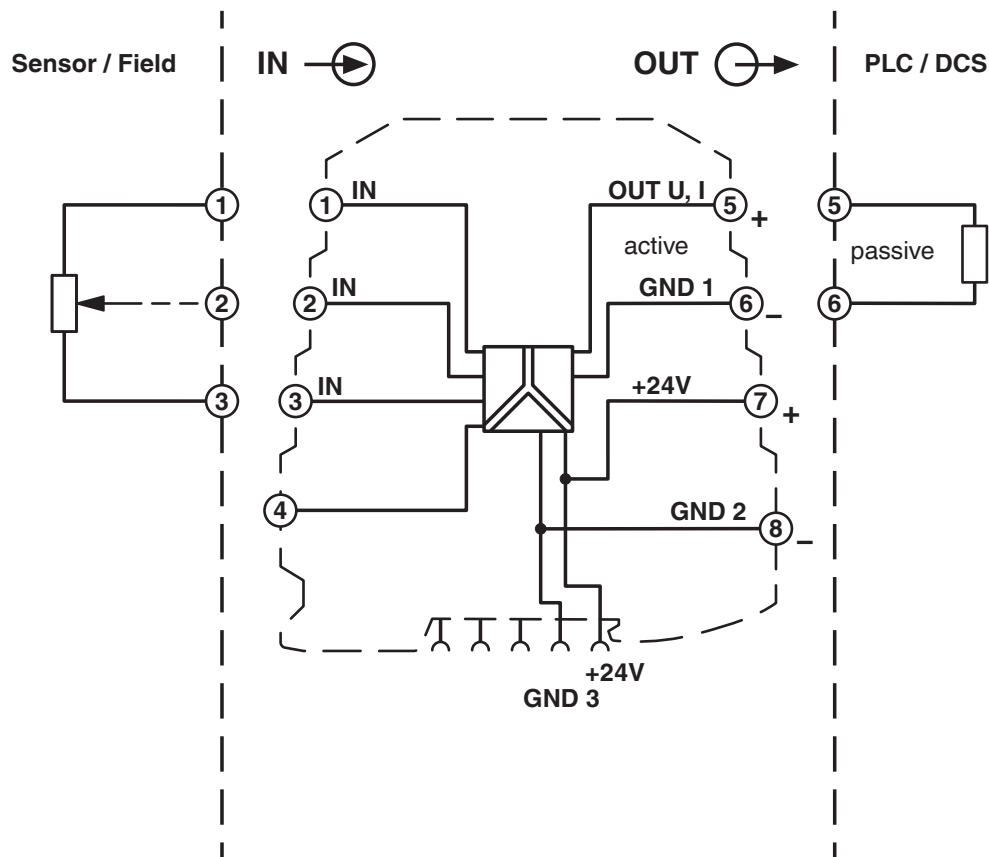


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Block diagram

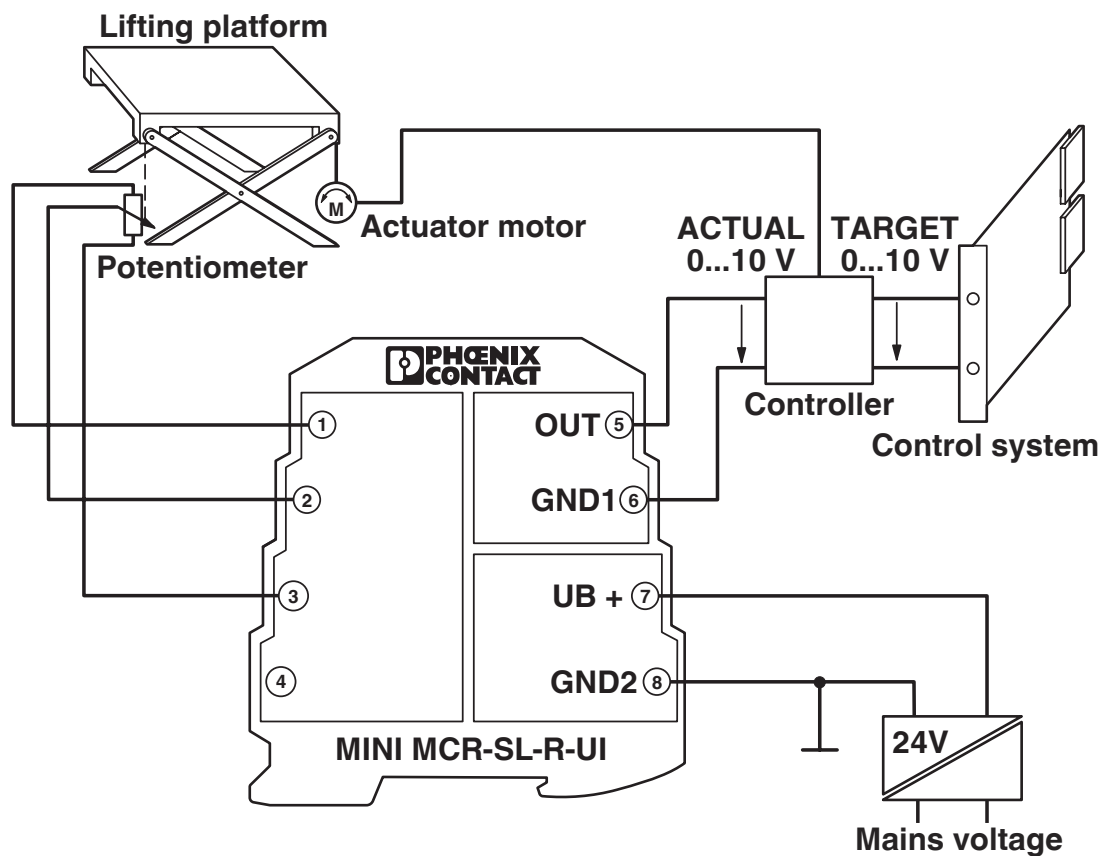


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Application drawing



Height adjustment of a lifting platform with setpoint and actual value control

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Aprobări

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/ro/produse/2864095>



cUL Recognized
ID de înregistrare: FILE E 238705



UL Recognized
ID de înregistrare: FILE E 238705

DNV

ID de înregistrare: TAA000020N



cUL Listed
ID de înregistrare: FILE E 199827



UL Listed
ID de înregistrare: FILE E 199827

cULus Recognized

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Clasificări

ECLASS

ECLASS-11.0	27210120
ECLASS-12.0	27210120
ECLASS-13.0	27210120

ETIM

ETIM 9.0	EC002653
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UNSPSC

UNSPSC 21.0	39121000
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Environmental product compliance

EU RoHS

Îndeplinește cerințele conform directivei RoHS	Da
reglementări excepționale, dacă sunt cunoscute	7(a), 7(c)-I

China RoHS

Environment friendly use period (EFUP)	EFUP-50
	Un tabel de declarații China RoHS legat de articol poate fi găsit în zona de descărcare a articolului respectiv la „Declarația producătorului”. Nu se emite și nu este necesar niciun tabel de declarații China RoHS pentru toate articolele EFUP-E.

EU REACH SVHC

Trimitere la substanța candidată REACH (nr. CAS)	Lead(nr. CAS: 7439-92-1)
SCIP	728d3133-0d2b-401b-88b2-a6f9bc2420c9

EF3.0 Climate Change

CO2e kg	21,805 kg CO2e
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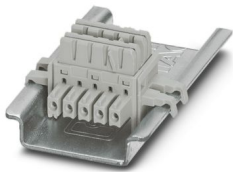
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Accesorii

ME 6,2 TBUS-2 1,5/5-ST-3,81 GY - DIN rail bus connectors

2695439

<https://www.phoenixcontact.com/ro/produse/2695439>

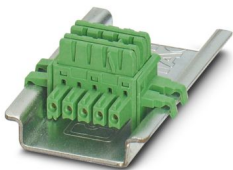


DIN rail connector (TBUS), 5-pos., for bridging the supply voltage, can be snapped onto NS 35/... DIN rail in accordance with EN 60715

ME 6,2 TBUS-2 1,5/5-ST-3,81 GN - DIN rail bus connectors

2869728

<https://www.phoenixcontact.com/ro/produse/2869728>



DIN rail connector for DIN rail mounting. Universal for TBUS housing. Gold-plated contacts, 5-pos.

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TC-D37SUB-AIO16-M-PS-UNI - Module carrier

2902934

<https://www.phoenixcontact.com/ro/produse/2902934>



Universal termination carrier for connecting 16 MINI Analog signal conditioners to digital or analog I/O cards, via D-SUB connector, 37-pos. (1:1 connection), with HART multiplexer connection

TC-D37SUB-ADIO16-M-P-UNI - Module carrier

2902933

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Universal termination carrier for connecting 16 MINI Analog signal conditioners to digital or analog I/O cards, via D-SUB connector, 37-pos. (1:1 connection)

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MINI MCR DKL - Transparent cover

2308111

<https://www.phoenixcontact.com/ro/produse/2308111>



Fold up transparent cover for MINI MCR modules with additional labeling option using insert strips and flat Zack marker strip 6.2 mm

MINI MCR-DKL-LABEL - Marking label

2810272

<https://www.phoenixcontact.com/ro/produse/2810272>



Label for extended marking of MINI MCR modules in connection with the MINI MCR-DKL

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MINI MCR-SL-PTB - Power terminal block

2864134

<https://www.phoenixcontact.com/ro/produse/2864134>



MCR power terminal block for supplying several MINI Analog modules via the DIN rail connector, with screw connection, maximum current consumption of up to 2 A

QUINT4-SYS-PS/1AC/24DC/2.5/SC - Power supply unit

2904614

<https://www.phoenixcontact.com/ro/produse/2904614>



Primary-switched power supply, QUINT POWER, screw connection, DIN rail mounting, supply of devices possible via the TBUS DIN rail connector, protective coating, input: single-phase, output: 24 V DC/2.5 A

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SZS 0,6X3,5 - Screwdriver

1205053

<https://www.phoenixcontact.com/ro/produse/1205053>



Actuation tool, for ST terminal blocks, insulated, also suitable for use as a bladed screwdriver, size: 0.6 x 3.5 x 100 mm, 2-component grip, with non-slip grip

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PHOENIX CONTACT România

Splaiul Unirii 165 Timpuri Noi Square TNO1, Etaj 1

Bucuresti 030133

+40 21 350 88 12 - 3

sales.ro@phoenixcontact.com