

## MINI MCR-SL-PT100-UI-NC

Order No.: 2864273

The illustration shows the versions with screw connection

<http://eshop.phoenixcontact.de/phoenix/treeViewClick.do?UID=2864273>

MCR temperature transducer for Pt 100 temperature sensors,  
configured via DIP switch, with screw connection, not pre-configured



### Commercial data

EAN	4017918956561
Pack	1 pcs.
Customs tariff	85389091
Weight/Piece	0.0751 KG
Catalog page information	Page 295 (IF-2007)

### Product notes

WEEE/RoHS-compliant since:  
09/25/2006



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### Product description

Der 6,2 mm schmale MINI MCR-SL-PT100-UI... ist ein konfigurierbarer, 3-Wege-getrennter Temperaturmessumformer. Er ist für den Anschluss von Pt 100-Widerstandsthermometern nach IEC 60751 in 2-, 3- und 4-Leiter-Anschlusstechnik geeignet.

Ausgangsseitig stehen die analogen Normsignale 0...20 mA, 4...20 mA, 0...10 V, 0...5 V, 1...5 V, 10...0 V, 20...0 mA oder 20...4 mA galvanisch getrennt zur Verfügung.

Die an der Gehäuseseite zugänglichen DIP-Schalter erlauben die Konfiguration folgender Parameter:

- Anslusstechnik,
- zu messende Temperaturspanne,
- Ausgangssignal sowie
- Art der Fehlerauswertung.

Die Spannungsversorgung (19,2 V DC bis 30 V DC) kann wahlweise über die Anschlussklemmen der Module oder im Verbund über den Tragschienen-Connector erfolgen.

#### Technical data

##### Input data

Configurable/programmable	Yes
Sensor types (RTD) that can be used	Pt 100 (IEC 60751/EN 60751)
Sensor input current	1 mA (constant)
Connection system	2, 3, 4-wire

##### Output data

Configurable/programmable	Yes, unconfigured
Voltage output signal	0 V ... 10 V
	10 V ... 0 V
	0 V ... 5 V
	1 V ... 5 V
Current output signal	0 mA ... 20 mA
	4 mA ... 20 mA
	20 mA ... 0 mA
	20 mA ... 4 mA
Max. output voltage	Approx. 12.5 V
Max. output current	23 mA
Load/output load voltage output	$\geq 10 \text{ k}\Omega$
Load/output load current output	$< 500 \Omega$ (at 20 mA)

##### Power supply

Nominal supply voltage	24 V DC
Range of supply voltages	19.2 V DC ... 30 V DC (to bridge the supply voltage, the DIN rail connector (ME 6,2 TBUS-2 1,5/5-ST-3,81 GN, Order No. 2869728) can be used. It can be snapped onto a 35 mm DIN rail according to EN 60715)
Max. current consumption	$< 21 \text{ mA}$ (for 24 V DC)
Power consumption	$< 500 \text{ mW}$

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#### Connection data

Type of connection	Screw connection
Conductor cross section solid min.	0.14 mm <sup>2</sup>
Conductor cross section solid max.	2.5 mm <sup>2</sup>
Conductor cross section stranded min.	0.2 mm <sup>2</sup>
Conductor cross section stranded max.	2.5 mm <sup>2</sup>
Conductor cross section AWG/kcmil min.	26
Conductor cross section AWG/kcmil max	12
Stripping length	12 mm
Screw thread	M3

#### General data

No. of channels	1
Length	102.5 mm
Width	6.2 mm
Height	93.1 mm
Maximum temperature coefficient	< 0.02 %/K
Step response (10-90%)	< 160 ms
Protective circuitry	Transient protection
Ambient temperature (operation)	-20 °C ... 65 °C
Ambient temperature (storage/transport)	-40 °C ... 85 °C
Degree of protection	IP20
Electromagnetic compatibility	Conformance with EMC directive 2004/108/EC
Emitted interference	EN 61000-6-4
Immunity to interference	EN 61000-6-2
Color	green
Housing material	PBT
Mounting position	Any
Assembly instructions	The DIN rail bus connector (T-BUS) can be used for bridging the supply voltage. It can be snapped onto a 35 mm EN 60715 DIN rail.
Conformity	CE compliant
ATEX approval	Ex II 3 G Ex nA II T4 X
UL, USA / Canada	UL 508 Recognized
GL	GL EMC 2 D

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## Certificates / Approvals



Certification	CUL, GL, UL
Certification Ex:	CUL-EX LIS, PxC-EX, UL-EX LIS

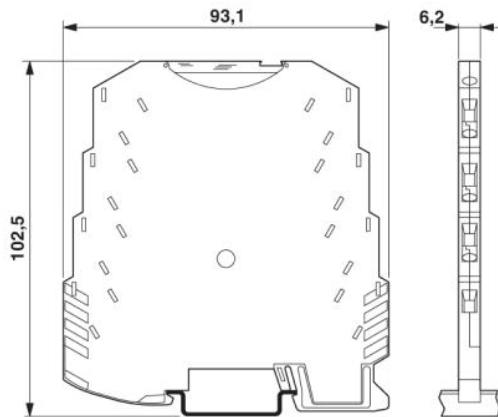
## Accessories

Item	Designation	Description
<b>General</b>		
2869728	ME 6,2 TBUS-2 1,5/5-ST-3,81 GN	DIN rail connector (T-BUS), 5-pos., for bridging the supply voltage, can be snapped onto NS 35/... DIN rails according to EN 60715
2308111	MINI MCR DKL	Fold up transparent cover for MINI MCR modules with additional labeling option using insert strips and flat Zack marker strip 6.2 mm
2810272	MINI MCR-DKL-LABEL	Label for extended marking of MINI MCR modules in connection with the MINI MCR-DKL
2864134	MINI MCR-SL-PTB	MCR power terminal block for supplying several MINI Analog modules via the DIN rail connectors, with screw connection, current consumption up to max. 2 A
2864147	MINI MCR-SL-PTB-SP	MCR power terminal block for supplying several MINI-ANALOG modules via the DIN rail connectors, with spring-cage connection, current consumption up to max. 2 A
2811268	MINI MCR-SL-V8-FLK 16-A	System adapter for MINI Analog modules
2866653	MINI-PS-100-240AC/24DC/1.5/EX	Power supply unit, primary switched, slim design, output: 24 V DC / 1.5 A, ATEX approval
2866983	MINI-SYS-PS-100-240AC/24DC/1.5	Power supply unit, primary switched, slim design, output: 24 V DC / 1.5 A

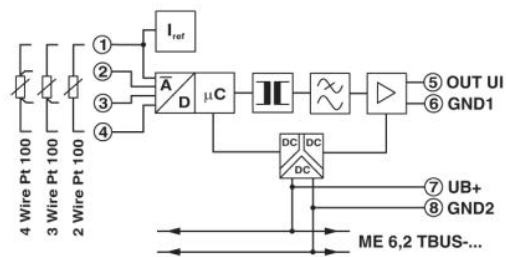
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## Drawings

### Dimensioned drawing



### Circuit diagram



Approval logo (Ex area)

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