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▶ Extract from the online catalog

MCR-T module, programmable temperature measuring transducer, unconfigured, for thermocouple sensors and resistance thermometers, with 2, 3, or 4-wire system, with electrical isolation between input/output and input/auxiliary power

Order No.	2814126
Ord designation	MCR-T-UI-E-NC
EAN	4017918139445
Pack	1 Pcs.
Customs tariff	85389091
Catalog page information	Page 276 (IF-2005)

▶ Technical data

Input data

Configurable/programmable	Yes, unconfigured
Sensor types (RTD) which can be used	Pt-, Ni-, Cu-Sensoren and others
Usable sensor types (TC)	U, T, L, J, E, K, N, S, R, B, C, W, HK
Linear resistance measuring range	0 Ohm ... 8000 Ohm (Freely adjustable)
Temperature measuring range	-200 ° C ... 850 ° C
Transmitter supply current	250 µA (Resistance thermometer)
Connection system	2, 3, 4-wire
Protective circuitry	Transient protection
Protective circuitry	Surge protection 30 V DC
Type of connection	Pluggable screw connection

Output data

Output name	Current output
Configurable/programmable	Yes, unconfigured
Voltage output signal	0 V ... 5 V
Voltage output signal	0 V ... 10 V
Voltage output signal	-5 V ... 5 V
Voltage output signal	-10 V ... 10 V
Voltage output signal	10 V ... 0 V
Voltage output signal	5 V ... 0 V
Voltage output signal	10 V ... -10 V
Voltage output signal	5 V ... -5 V
Voltage output signal	1 V ... 5 V
Current output signal	0 mA ... 20 mA
Current output signal	4 mA ... 20 mA
Current output signal	20 mA ... 0 mA
Current output signal	20 mA ... 4 mA
Max. output voltage	+/- 12 V
Max. output current	24 mA
Output voltage range with wire break	-12 V ... 12 V
Output current range with wire break	0 A ... 24 mA
Output voltage range with overrange/underrange	-12 V ... 12 V
Output current range with overrange/underrange	0 A ... 24 mA
Load/output load voltage output	>= 10 kOhm
Load/output load current output	<= 500 Ohm
Protective circuitry	Transient protection
Residual ripple	< 20 mVss
Resolution D/A	+/- 12 Bit

Switching output

Output name	Transistor output, pnp
Output description	Locked in the case of order-specific configuration, otherwise freely programmable via MCR/PI-CONF-WIN
Output voltage range	18 V DC ... 30 V DC (Switches supply voltage, not short-circuit resistant)
Continuous current	100 mA

Power supply

Range of supply voltages	18 V DC ... 30 V DC
Max. current consumption	< 60 mA

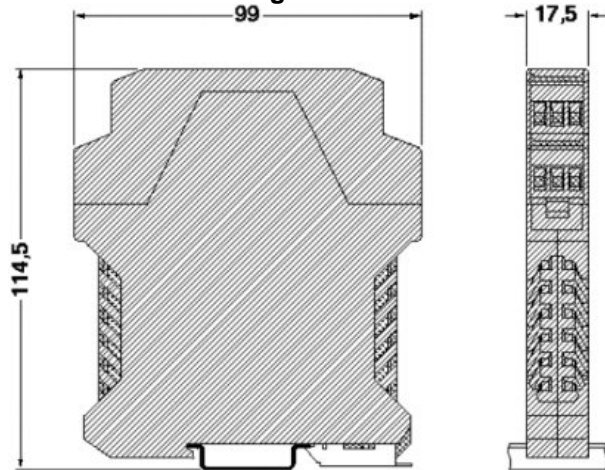## Connection data

Conductor cross section, rigid min.	0.2 mm²
Conductor cross section, rigid max.	2.5 mm²
Conductor cross section flexible min.	0.2 mm²
Conductor cross section, flexible max.	2.5 mm²
Conductor cross section AWG/kcmil min.	24
Conductor cross section AWG/kcmil max	14
Stripping length	8 mm
Screw thread	M 3

General data

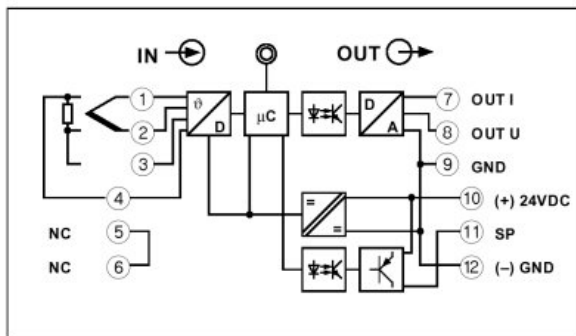|	
Length	99 mm
Width	17.5 mm
Height	114.5 mm
Transmission error, max.	<= 0.1 % (Of end value, + 6 mV or 12 µA at output)
Temperature coefficient, max. (/K)	<= 0.01 %
Temperature coefficient, typical	0.005 %
Cold point error, max.	<= 3 ° C
Typical cold point errors	1.5 ° C
GRP test voltage	1 kV AC (50 Hz, 1 min)
Test voltage input/output	1 kV AC
Test voltage input/power supply	1 kV AC
Ambient temperature (operation)	-20 ° C ... 65 ° C
Color	green
Housing material	Polyamide PA non-reinforced
Installation position	DIN rail

▶ Drawings

Dimensioned drawing

Circuit diagram

▶ Address

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