

Digital display - FA MCR-D-TUI-UI-2REL-UP - 2907064

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Multifunctional process indicator inside the control panel housing for monitoring and displaying analog measurement data. Universal inputs permit connection of current, voltage, RTDs, and TCs. Two relay change-over contact outputs and one analog output.

Product Description

Multifunctional process indicator inside the control panel housing for monitoring and displaying analog measurement data. Dual-conductor sensors can be powered with the integrated measuring transducer supply. Universal inputs permit connection of current, voltage, RTDs, and TCs. Limit values can be monitored and relays can be switched. The analog output allows you to transmit process signals. A color change in the event of a fault supports the detection of alarm conditions. 5-digit, 7-segment LC display, with backlight, 1 universal input, 2 relays, min./max. value memory, linearization table, digital status output (open collector)



Key Commercial Data

Packing unit	1 STK
GTIN	 4 055626 204666
GTIN	4055626204666
Weight per Piece (excluding packing)	539.800 g
Custom tariff number	90303330
Country of origin	Germany

Technical data

Dimensions

Width	96 mm
Height	48 mm
Depth	151.8 mm

Ambient conditions

Ambient temperature (operation)	-20 °C ... 60 °C
Ambient temperature (storage/transport)	-40 °C ... 85 °C
Maximum altitude	< 2000 m (Above sea level)
Degree of protection	IP65 from the front

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Technical data

Input data

Description of the input	Universal input
Number of inputs	1
Current input signal	0 mA ... 20 mA +10 %
	4 mA ... 20 mA +10 %
Max. input current	< 150 mA
Input signal	Current
Input resistance current input	10 Ω
Transmitter supply voltage	> 16 V (22 mA)
Transmitter supply voltage range	22.8 V ... 27.6 V (No-load)
Transmitter supply current	< 30 mA (Short-circuit and overload protection)
Available input sources	Resistance thermometers
Sensor types (RTD) that can be used	Pt, Ni, Cu sensors
Connection technology	2, 3, 4-wire
Description of the input	Universal input
Voltage input signal	0 V ... 10 V
	2 V ... 10 V
	0 V ... 5 V
	0 V ... 1 V
	1 V ... 5 V
	-1 V ... 1 V
	-10 V ... 10 V
	-30 V ... 30 V
	-100 mV ... 100 mV
max. input voltage	± 35 V (≥ 1 V)
Input signal	Voltage
Input resistance of voltage input	> 1 M Ω
Available input sources	Thermocouples
Sensor types that can be used (TC)	J, K, T, N, B, S, R, U, L, C, D

Output data

Output name	Current output
Number of outputs	1
Configurable/programmable	Yes
Current output signal	0 mA ... 20 mA
	4 mA ... 20 mA
Max. output current	< 22 mA
Load/output load current output	≤ 500 Ω (22 mA)
Ripple	< 10 mV _{PP} (500 Ω)
D/A resolution	13 bit
Output name	Voltage output
Voltage output signal	0 V ... 10 V

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Technical data

Output data

	2 V ... 10 V
	0 V ... 5 V
	1 V ... 5 V
Max. output voltage	< 11 V
Ripple	< 10 mV _{pp} (1000 Ω)
D/A resolution	13 bit

Switching output

Output name	Relay output
Contact type	2 PDT
Minimum switching voltage	12 V
Maximum switching voltage	30 V DC (3 A)
	230 V AC (3 A)
Min. switching current	10 mA
Output name	Transistor output, active
Output description	Open collector output
Number of outputs	1
Contact type	Transistor
Maximum switching voltage	28 V
Max. switching current	3 A
	200 mA

Power supply

Supply voltage range	24 V AC/DC ... 230 V AC/DC (-20 % ... +10 %, 50 Hz ... 60 Hz)
Power consumption	≤ 6.9 W

General

Test voltage	2500 V
Protection class	I
Overvoltage category	II
Degree of pollution	2
Test voltage input/output	500 V
Test voltage input/power supply	2500 V
Test voltage output/power supply	2500 V
Noise emission	IEC 61326, class A
Noise immunity	IEC 61326 / NAMUR NE 21
Housing material	PC-GF10
Mounting position	Max. viewing angle range +/- 45° from the centre line of the display in every direction
Conformance	CE-compliant
UL, USA/Canada	UL 61010 Recognized
CSA	CSA GP
GL	GL EMC 1 C

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Technical data

Standards and Regulations

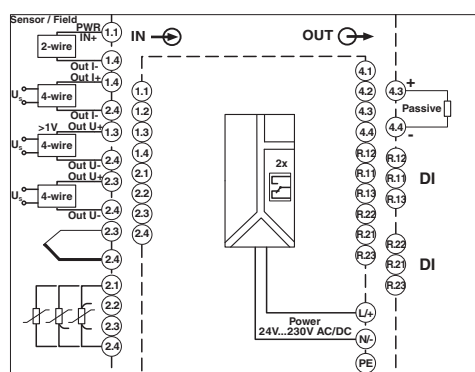
Noise emission	IEC 61326, class A
Noise immunity	IEC 61326 / NAMUR NE 21
Conformance	CE-compliant
UL, USA/Canada	UL 61010 Recognized
CSA	CSA GP
GL	GL EMC 1 C

Environmental Product Compliance

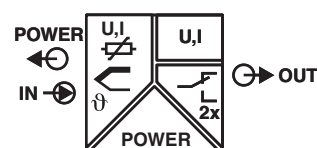
China RoHS	Environmentally friendly use period: unlimited = EFUP-e
	No hazardous substances above threshold values

Drawings

Block diagram



Pictogram



Classifications

eCl@ss

eCl@ss 4.0	27210301
eCl@ss 4.1	27210301
eCl@ss 5.0	27210301
eCl@ss 5.1	27210301
eCl@ss 6.0	27210301
eCl@ss 7.0	27210301
eCl@ss 8.0	27210301
eCl@ss 9.0	27210301

ETIM

ETIM 2.0	EC001426
ETIM 3.0	EC001426

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Classifications

ETIM

ETIM 4.0	EC001426
ETIM 5.0	EC001426
ETIM 6.0	EC001426

Approvals

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UL Recognized / cUL Recognized / CSA / DNV GL / cULus Recognized

Ex Approvals

Approval details

UL Recognized		http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	FILE E 198586
cUL Recognized		http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	FILE E 198586
CSA		http://www.csagroup.org/services-industries/product-listing/	2879105
DNV GL		http://exchange.dnv.com/tari/	42233-15 HH
cULus Recognized		http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	

Accessories

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Programming adapter

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Accessories

Programming adapter - MCR-PAC-T-USB - 2309000

Programming adapter with USB and T port interface, 2.4 m for programming FA MCR-..., MCR-...-LP-..., and MCR-...-HT-... modules

