Distributed I/O device - FLM TEMP 4 RTD M12 - 2736819

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The local bus device has 4 inputs for resistive temperature sensors. Functions: 180 µs A/D conversion time, measured value output in 16-bit values, 500 kbaud/2 Mbaud selection, PCP configuration, short-circuit/ overload protection, M12 fast connection technology.

Your advantages

- Flexible power supply concept
- SPEEDCON fast locking system
- Short-circuit and overload protection
- Diagnostic and status indicators
- Consistent connection via M12 connectors

RoHS

Key Commercial Data

Packing unit	1 pc
GTIN	4 046356 163248
GTIN	4046356163248

Technical data

Note

Utilization restriction	EMC: class A product, see manufacturer's declaration in the download area

Dimensions

Width	70 mm
Height	178 mm
Depth	50 mm
Drill hole spacing	168 mm

Ambient conditions

Ambient temperature (operation)	-25 °C ... 60 °C
Ambient temperature (storage/transport)	-25 °C ... 85 °C
Permissible humidity (storage/transport)	95 %

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Ambient conditions

Air pressure (operation)	80 kPa ... 106 kPa (up to 2000 m above sea level)
Air pressure (storage/transport)	70 kPa ... 106 kPa (up to 3000 m above sea level)
Degree of protection	IP65/IP67

General

Mounting type	Wall mounting
Net weight	280 g

Interfaces

Designation	Fieldline local bus
Connection method	M12 connector, B-coded
Transmission speed	500 kbps / 2 Mbps
Transmission physics	Copper

Power supply for module electronics

Supply voltage	24 V DC
Supply voltage range	18 V DC ... 30 V DC (including ripple)

Fieldline potentials

Voltage supply U_L	24 V DC
Power supply at U_L	max. 4 A
Current consumption from U_L	max. 100 mA (At 2 Mbaud)
	typ. 70 mA
Voltage supply U_S	24 V DC
Power supply at U_S	max. 4 A
Current consumption from U_S	typ. 5 mA (plus power supply for sensors)
	max. 400 mA

Analog inputs

Number of inputs	max. 4 (for resistance temperature detectors)
Connection method	M12 connector
Connection technology	2, 3, 4-wire (shielded)
Number of inputs	max. 4 (for resistance temperature detectors)
Connection method	M12 connector
Connection technology	2, 3, 4-wire (shielded)
Sensor types (RTD) that can be used	Pt, Ni, KTY sensors, linear resistors
Process data update	Dependent on the connection method
Input filter time	4.1 ms (default setting or 0.6 ms; adjustable for each channel)

Standards and Regulations

Mechanical tests	Vibration resistance in acc. with EN 60068-2-6/IEC 60068-2-6 5g
	Shock in acc. with EN 60068-2-27/IEC 60068-2-27 30g, half-sine shock pulse
Protection class	III, IEC 61140, EN 61140, VDE 0140-1

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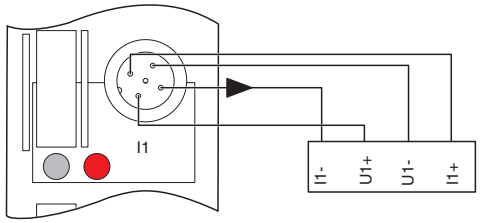
Environmental Product Compliance

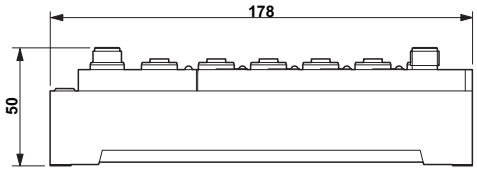
China RoHS	Environmentally friendly use period: unlimited = EFUP-e
	No hazardous substances above threshold values

Drawings

Connection diagram



Dimensional drawing



Approvals

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EAC / EAC

Ex Approvals

Approval details

EAC	EAC	EAC-Zulassung
EAC	EAC	RU *-DE.A*30.B.01735

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