

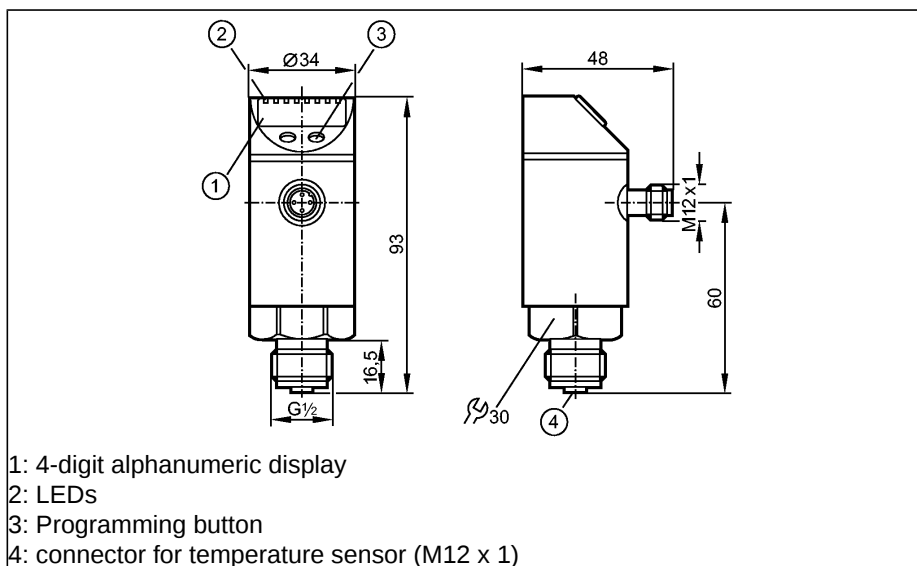
TR2432

Evaluation unit for temperature sensors
TR

Process connection:
G $\frac{1}{2}$ A

Communication interface: IO-Link 1.0
(COM2 slave, 38.4 kBaud)

Switching output, analog output 4...20
mA or 0...10 V
4-digit alphanumeric display
Measuring range
-40...300 °C / -40...572 °F



Made in Germany

Electrical design

Output

Operating voltage	[V]
Current rating	[mA]
Short-circuit protection	
Reverse polarity protection	
Overload protection	
Integrated watchdog	
Voltage drop	[V]
Current consumption	[mA]

Analog output

Setting range

Analog start point, ASP	[°C/°F]
Analog end point, AEP	[°C/°F]
Set point, SP	[°C/°F]
Reset point, rP	[°C/°F]
in steps of	[°C/°F]

Accuracy

Switching output	[K]
Analog output	[K]
Display	[K]

Resolution

Switching output	[K]
Analog output	[K]
Display	[K]

Temperature drift (/ 10 K)

Power-on delay time [s]

Response time Switching output [ms]

DC PNP/NPN

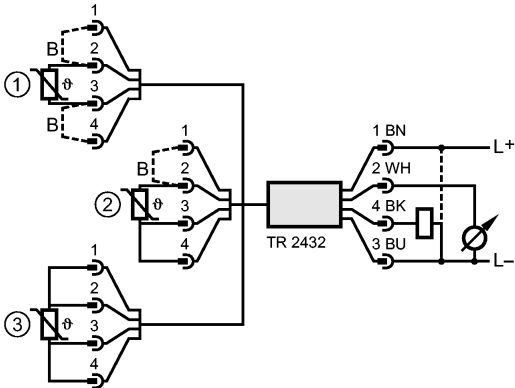
1 x normally open / closed programmable + 1 x analog (4...20 mA / 0...10 V, scalable)

Operating voltage	18...32 DC
Current rating	250
Short-circuit protection	Yes (non-latching)
Reverse polarity protection	yes
Overload protection	yes
Integrated watchdog	yes
Voltage drop	< 2
Current consumption	< 50
Analog output	4...20 mA / 0...10 V **)
Analog start point, ASP	-40; 0...295; 0 / -40; 0...563; 0
Analog end point, AEP	-35.0...300.0 / -31.0...572.0
Set point, SP	-39.8...300.0 / -39.6...572.0
Reset point, rP	-40.0...299.8 / -40.0...571.6
in steps of	0.1 / 0.1
Switching output	± 0.3
Analog output	± 0.3
Display	± 0.3
Switching output	0.1
Analog output	< 0.1
Display	0.1
Temperature drift (/ 10 K)	0.1
Power-on delay time	1
Response time Switching output	130

TR2432

Ambient temperature	[°C]	-25...70
Storage temperature	[°C]	-40...85
Protection		IP 67, III
Shock resistance		DIN IEC 68-2-27:50 g (11 ms)
Vibration resistance		DIN EN 60068-2-6:20 g (10...2000 Hz)
EMC		EN 61000-4-2 ESD: 4 kV CD / 8 kV AD EN 61000-4-3 HF radiated: 10 V/m EN 61000-4-4 Burst: 2 kV EN 61000-4-5 Surge: 1 kV EN 61000-4-6 HF conducted: 10 V
MTTF	[Years]	207
Housing materials		stainless steel (304S15); EPDM/X (Santoprene); PC (Makrolon); PBT (Pocan); FPM (Viton)
Display		Display unit 2 x LED green Switching status LED yellow Measured values 4-digit alphanumeric display Programming 4-digit alphanumeric display
Connection		M12 connector; gold-plated contacts
Weight	[kg]	0.232
Remarks		cULus - Class 2 source required **) Response time analog output: 384 ms load for current output: $R_{max} [\Omega]: (U_b - 10 V) \times 50$ / for voltage output: $R_{min} [\Omega]: 2000$

Wiring



- 1 = Two-wire sensor
- 2 = Three-wire sensor
- 3 = Four-wire sensor
- B = bridge