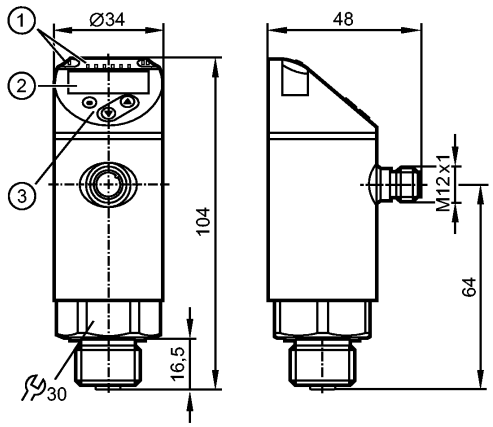
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TR-000KDBM12-QFPKG/US/

Evaluation systems



1: LEDs (display unit / switching status)
2: 4-digit alphanumeric display / alternating indication of red and green
3: Programming buttons

Product characteristics		
Evaluation unit for temperature sensors		
Process connection: G ½ A		
for Pt100 and Pt1000 measuring elements		
2 switching outputs		
4-digit alphanumeric display		
Measuring range: -100...600 °C / -148...1112 °F		
Electrical data		
Electrical design		DC PNP/NPN
Operating voltage	[V]	18...32 DC; cULus - Class 2 source required
Current consumption	[mA]	< 50
Protection class		III
Reverse polarity protection		yes
Outputs		
Output		2 switching outputs
Output function		2 x normally open / closed programmable
Current rating	[mA]	250
Voltage drop	[V]	< 2.5
Short-circuit protection		yes (non-latching)
Overload protection		yes
Measuring / setting range		
Measuring range		-100...600 °C / -148...1112 °F
Setting range		
Set point, SP		-99.8...600 °C / -147.6...1112 °F
Reset point, rP		-100...599.8 °C / -148...1111.6 °F
in steps of		0.1 °C / 0.1 °F
Resolution		
Switching output	[K]	0.1
Display	[K]	0.1
Accuracy / deviations		

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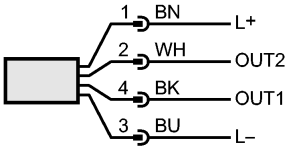
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Evaluation systems

Switch point accuracy	[K]	± 0.3 + (± 0.1 % MS)
Display	[K]	± 0.3 + (± 0.1 % MS)
Temperature coefficients (in % of the span per 10 K)		0.1
Reaction times		
Power-on delay time	[s]	1
Response time Switching output	[ms]	390
Integrated watchdog		yes
Software / programming		
Programming options		hysteresis / window function; NO / NC; output polarity; on delay, off delay; damping; display unit
Interfaces		
IO-Link Device		
Transfer type		COM2 (38.4 KBaud)
IO-Link revision		1.1
Environment		
Ambient temperature	[°C]	-25...80
Storage temperature	[°C]	-40...100
Protection		IP 67
Tests / approvals		
EMC		DIN EN 61000-6-3 DIN EN 61000-6-2
Shock resistance		DIN IEC 68-2-27: 50 g (11 ms)
Vibration resistance		DIN EN 60068-2-6 20 g (10...2000 Hz)
MTTF	[Years]	252
UL approval number		K012
Mechanical data		
Process connection		G ½ A
Housing materials		304 / 1.4301 (V2A); EPDM/X; PC; PBT; FPM
Weight	[kg]	0.198
Displays / operating elements		
Display		Display unit 2 x LED green Switching status 2 x LED yellow 4-digit alphanumeric display / alternating indication Measured values of red and green
Electrical connection		
Connection		M12 connector; gold-plated contacts

Wiring





OUT1: switching output or IO-Link
OUT2: switching output
Colours to DIN EN 60947-5-2

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Evaluation systems

Remarks

Remarks		MS = set measuring span cULus - Class 2 source required
Pack quantity	[piece]	1