

TR7430



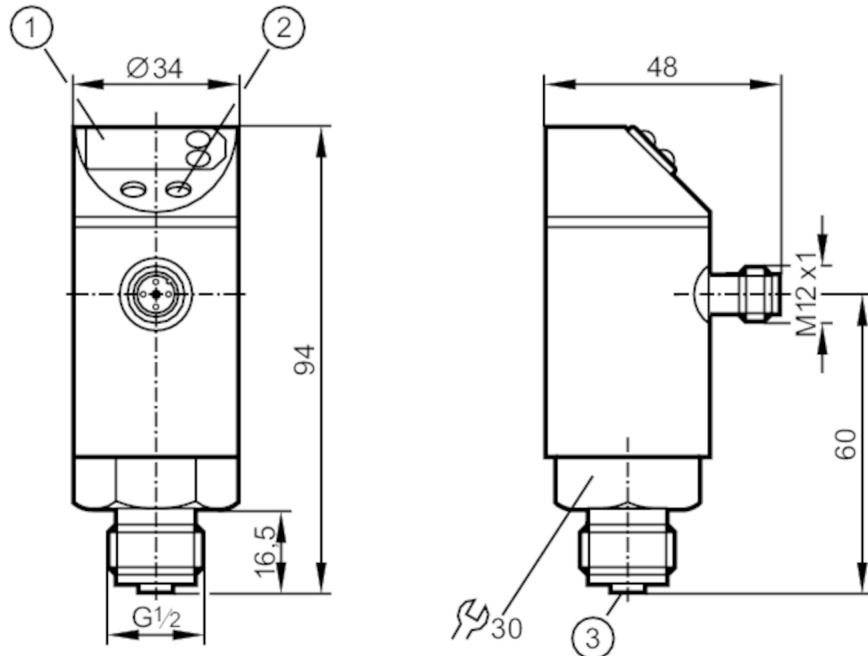
Evaluation unit with display for PT100/PT1000 temperature sensors

TR-...KDBR12-QFPKG/US/...../V

Article no longer available - archive entry

Alternative articles: TR7439

When selecting an alternative article and accessories please note that technical data may differ!



- 1 7-segment LED display
2 programming button
3 connector for temperature sensor M12 x 1



Product characteristics

Number of inputs and outputs	Number of digital outputs: 2
Measuring range	-40...150 °C / -40...302 °F
Process connection	threaded connection G 1/2 external thread

Application

Special feature	Gold-plated contacts
Application	for temperature sensors TS/TT

Electrical data

Operating voltage	[V]	18...30 DC
Current consumption	[mA]	< 50
Min. insulation resistance	[MΩ]	100; (500 V DC)
Protection class		III
Reverse polarity protection		yes
Power-on delay time	[s]	1.5
Integrated watchdog		yes

Inputs / outputs

Number of inputs and outputs	Number of digital outputs: 2
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TR7430



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Outputs

Total number of outputs		2
Output signal		switching signal
Electrical design		PNP
Number of digital outputs		2
Output function		normally open / normally closed; (parameterisable)
Max. voltage drop switching output DC [V]		2
Permanent current rating of switching output DC [mA]		250
Short-circuit protection		yes
Type of short-circuit protection		pulsed
Overload protection		yes

Measuring/setting range

Measuring range	-40...150 °C	-40...302 °F
Set point SP	-39.5...150 °C	-39...302 °F
Reset point rP	-40...149.5 °C	-40...301 °F
In steps of	0.5 °C	1 °F

Resolution

Resolution of switching output [K]	0.5
Resolution of display [K]	0.5

Accuracy / deviations

Switch point accuracy [K]	± 0,2
Display accuracy [K]	± (0,2 + ½ Digit)
Temperature drift per 10 K [K]	0.1

Response times

Max. measuring/display cycle [ms]	200
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Software / programming

Adjustment of the switch point	programming button
Parameter setting options	hysteresis / window; normally open / normally closed; min/max memory reset; Display unit; zero-point calibration

Operating conditions

Ambient temperature [°C]	-25...70
Storage temperature [°C]	-40...85
Protection	IP 67

Tests / approvals

EMC	DIN EN 61000-4-2 ESD EN 61000-4-3 HF radiated DIN EN 61000-4-4 Burst EN 61000-4-6 HF conducted	4 kV CD / 8 kV AD 10 V/m 2 kV 10 V
Shock resistance	DIN IEC 68-2-27	50 g (11 ms)
Vibration resistance	DIN EN 60068-2-6	20 g (10...2000 Hz)

TR7430



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Mechanical data

Materials	stainless steel (304/1.4301); stainless steel (303/1.4305); EPDM/X; PC; PBT; FKM
Process connection	threaded connection G 1/2 external thread

Displays / operating elements

Display	switching status	2 x LED, red
	function display	7-segment LED display
	measured values	7-segment LED display

Remarks

Remarks	n.c. = not used
Pack quantity	1 pcs.

Electrical connection

Connector: 1 x M12; coding: A; Contacts: gold-plated



Connection

