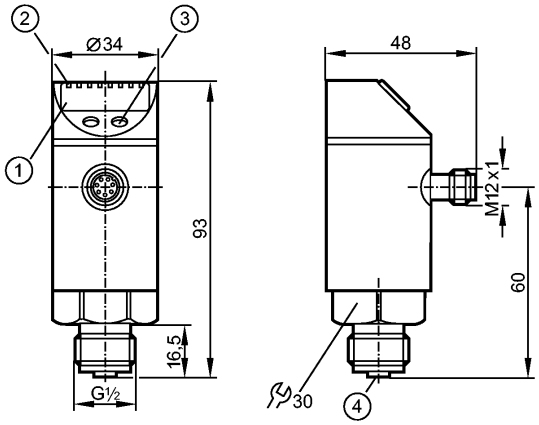
TR8430

TR-...KDBR12-SFPKG/US/...../V

Evaluation systems

Please note the wiring of the sensor and the sockets (see data sheet) as for 8-pole sockets the core colours are not standardised.



1: 4-digit alphanumeric display
2: LEDs
3: Programming button
4: connector for temperature sensor (M12 x 1)

Made in USA

Product characteristics		
Evaluation unit for temperature sensors		
Process connection: G ½ A		
for Pt100 and Pt1000 measuring elements		
Gold-plated contacts		
4 switch points		
4-digit alphanumeric display		
Measuring range: -40...150 °C / -40...302 °F		
Electrical data		
Electrical design		DC PNP
Operating voltage	[V]	18...28 DC [1])
Current consumption	[mA]	< 90 **)
Protection class		III
Reverse polarity protection		yes
Outputs		
Output		4 switch points
Output function		4 x normally open / closed programmable
Current rating	[mA]	< 500 *)
Voltage drop	[V]	< 2
Short-circuit protection		pulsed
Overload protection		yes
Measuring / setting range		
Measuring range	[°C/°F]	-40...150 / -40...302
Setting range		
Set point, SP	[°C/°F]	-39.8...150 / -39.5...302
Reset point, rP	[°C/°F]	-40...149.8 / -40...301.5
in steps of	[°C/°F]	0.2 / 0.5
Resolution		

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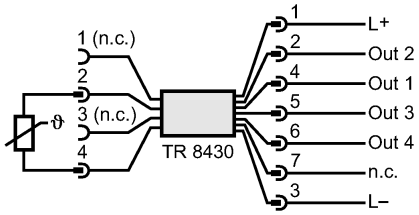
Switching output	[K]	0.2
Display	[K]	0.2
Accuracy / deviations		
Switch point accuracy	[K]	± 0.2
Display	[K]	± (0.2 + ½ Digit)
Temperature drift (/ 10 K)		0.1
Reaction times		
Power-on delay time	[s]	1.5
Response time Switching output	[ms]	200
Integrated watchdog		yes
Software / programming		
Adjustment of the switch point		Programming button
Programming options		hysteresis / window; normally closed/open; min./max. memory reset; °C/°F selectable; adjustment up to ± 10 K
Environment		
Ambient temperature	[°C]	-25...70
Storage temperature	[°C]	-40...85
Protection		IP 67
Tests / approvals		
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 61000-4-6 HF conducted: 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)
MTTF	[Years]	175
Mechanical data		
Process connection		G ½ A
Housing materials		stainless steel (304S15); stainless steel (303S22); EPDM/X (Santoprene); PC (Makrolon); PBT (Pocan); FPM (Viton)
Weight	[kg]	0.256
Displays / operating elements		
Display		Display unit 2 x LED green Switching status 4 x LED yellow Function display 4-digit alphanumeric display Measured values 4-digit alphanumeric display
Electrical connection		
Connection		M12 connector; Gold-plated contacts

Wiring

Programming of the output function:
Hno = hysteresis / N.O.
Hnc = hysteresis / N.C.
Fno = window function / N.O.
Fnc = window function / N.C.



Remarks

Remarks	n.c. = not connected [1]) to EN50178, SELV, PELV; referring to UL: For use on a low voltage circuit with overcurrent protection in accordance with UL873 Tab. 28.1 or Imax = 100/Ub (Ub = voltage of the circuit). *) max. value for each single output total current rating of the unit: max. 1 A 2 outputs can be switched in parallel to achieve a total current rating of 1 A; switch-on points and switch-off points and the programming of the outputs must correspond exactly **) when display is active
Pack quantity [piece]	1

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