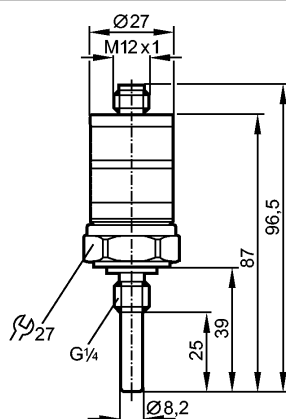


TK6130

TK-025CLFR14-QKPKG / US

Temperature sensors



Made in Germany

Product characteristics

Electronic temperature sensor

Process connection: G 1/4 A

Installation length EL: 39 mm

2 switching outputs

complementary

Hysteresis

adjustable

Measuring range: -25...140 °C / -13...284 °F

Measuring element: 1 x Pt 1000, to DIN EN 60751, class B

Application

Application	liquids and gases
Pressure rating [bar]	300
Medium temperature [°C]	-25...125 (145 max. 1 h)
Minimum installation depth [mm]	15

Electrical data

Electrical design	DC PNP
Operating voltage [V]	9.6...32 ¹⁾
Current consumption [mA]	< 30
Protection class	III
Reverse polarity protection	yes

Outputs

Output function	complementary
Current rating [mA]	500
Voltage drop [V]	< 2
Short-circuit protection	pulsed
Overload protection	yes

Measuring / setting range

Measuring range	-25...140 °C	-13...284 °F
Setting range		
Set point, SP	-16...140 °C	3...284 °F
Reset point, rP	-20...136 °C	-4...277 °F

Accuracy / deviations

TK6130

TK-025CLFR14-QKPKG / US

Temperature sensors

Temperature drift (/ 10 K)		0.1
Setting accuracy	[K]	± 3
Repeatability	[K]	± 0.1

Reaction times

Power-on delay time	[s]	0.5
Dynamic response	T05 / T09 [s]	1 / 3 *)

Software / programming

Adjustment of the switch point		setting rings
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Environment

Ambient temperature	[°C]	-25...70
Storage temperature	[°C]	-40...100
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]	684

Mechanical data

Process connection		G ¼ A
Materials (wetted parts)		stainless steel 316L / 1.4404; FPM (Viton)
Probe length L	[mm]	25
Installation length EL	[mm]	39
Housing materials		stainless steel 316L / 1.4404; PC (Makrolon); PBT (Pocan); FPM (Viton)
Weight	[kg]	0.104

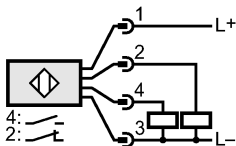
Displays / operating elements

Display	Operation	LED green
	Switching status	LED yellow

Electrical connection

Connection		M12 connector; Gold-plated contacts
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Wiring



Remarks

Remarks	1) cULus - Class 2 source required *) according to DIN EN 60751 The values for accuracy apply to flowing water.
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Pack quantity	[piece]	1
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