

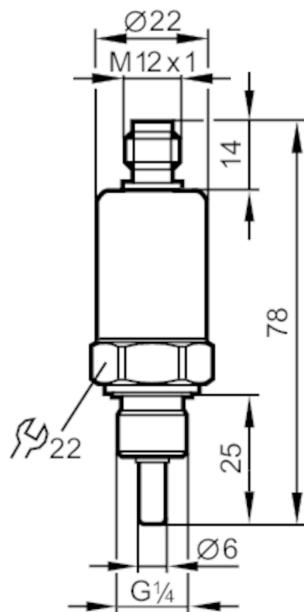
TY9307



Temperature transmitter

TY-025CFKR14-B-DKG

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Product characteristics

Number of inputs and outputs	Number of analog outputs: 1	
Measuring range	0...80 °C	32...176 °F
Process connection	threaded connection G 1/4 external thread	

Application

System	gold-plated contacts	
Measuring element	1 x Pt 1000; (to DIN EN 60751, class A)	
Media	liquids and gases	
Medium temperature	[°C]	-20...125
Pressure rating	[bar]	400
Minimum installation depth	[mm]	15

Electrical data

Operating voltage	[V]	14...32 DC; (to DIN EN 50178 SELV/PELV)
Protection class		III
Reverse polarity protection		yes
Power-on delay time	[s]	0.5

Inputs / outputs

Number of inputs and outputs	Number of analog outputs: 1
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Outputs

Total number of outputs	1
Output signal	analog signal
Number of analog outputs	1

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Analog voltage output	[V]	0...10
Min. load resistance	[Ω]	2000
Short-circuit proof		yes
Overload protection		yes
Measuring/setting range		
Probe length L	[mm]	25
Measuring range	0...80 °C	32...176 °F
Resolution		
Resolution of analog output	[K]	0.1
Accuracy / deviations		
Precision analog output	[K]	± 0,5
Temperature coefficient [% of the span / 10 K]		< ± 0,15
Reaction times		
Dynamic response T05 / T09	[s]	1,5 / 5; (according to DIN EN 60751)
Operating conditions		
Ambient temperature	[°C]	-25...70
Storage temperature	[°C]	-40...100
Protection		IP 68; IP 69K
Tests / approvals		
EMC	DIN EN 61000-4-2 ESD	4 kV CD / 8 kV AD
	DIN EN 61000-4-3 HF radiated	10 V/m
	DIN EN 61000-4-4 Burst	2 kV
	DIN EN 61000-4-5 Surge	1 kV
	DIN EN 61000-4-6 HF conducted	10 V
Shock resistance	DIN EN 60068-2-27	50 g (11 ms)
Vibration resistance	DIN EN 60068-2-6	20 g (10...2000 Hz)
Mechanical data		
Weight	[g]	97.8
Material		stainless steel (1.4404 / 316L); PA
Materials (wetted parts)		stainless steel (1.4404 / 316L); sealing: FKM
Tightening torque	[Nm]	< 25
Process connection		threaded connection G 1/4 external thread
Remarks		
Remarks		The values for accuracy apply to flowing water.
Pack quantity		1 pcs.

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Electrical connection

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



Connection

