

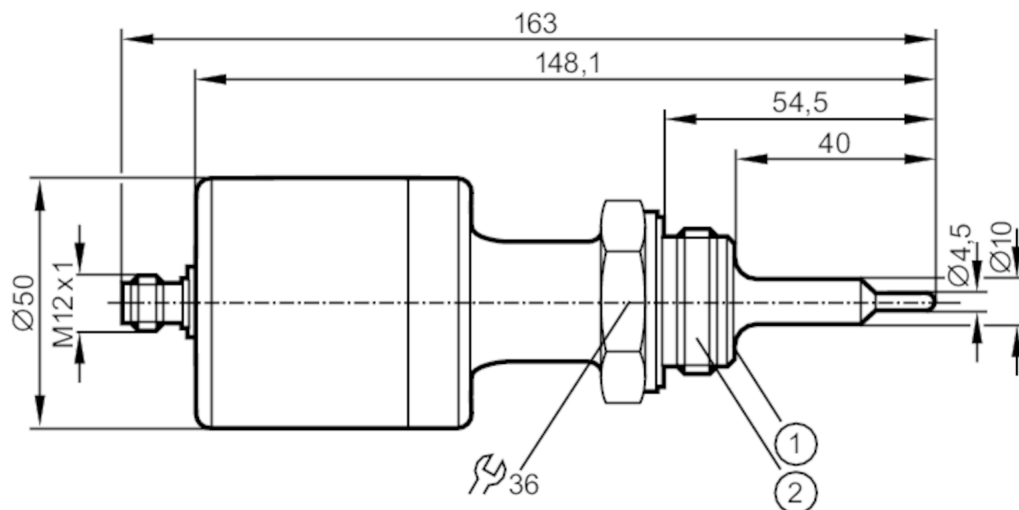
TAP961



Temperature transmitter

TAP040KLES30-PRAVG/US/

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- 1 sealing area
- 2 Aseptoflex thread



EHEDG Certified

Product characteristics

Measuring range	-25...150 °C	-13...302 °F
Process connection	G 1 Aseptoflex Vario	

Application

System	gold-plated contacts
Measuring element	1 x Pt 1000 + 1 x NTC; (thermally coupled, with backup function (temperature measuring even if one of the two sensor elements fails))
Application	Suitable for all standard CIP and SIP processes
Media	liquids and gases
Pressure rating [bar]	50
Minimum installation depth [mm]	15
No dead space	yes

Electrical data

Operating voltage [V]	9...32 DC; (to SELV/PELV)
Current consumption [mA]	< 15.6; (max. fault current : 21,8)
Protection class	III
Reverse polarity protection	yes
Power-on delay time [s]	35
Integrated watchdog	yes

Outputs

Overload protection	yes
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Measuring/setting range

Probe length L [mm]	40
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Measuring range	-25...150 °C	-13...302 °F
Drift warning	0.2...5 °C	0.4...9 °F
Drift alarm	0.2...5 °C	0.4...9 °F
In steps of	0.05 °C	0.1 °F
Accuracy / deviations		
Drift monitoring [K]	± 0,2 (-10...100°C); ± 0,3 (-25...-10/100...150°C *); (probe completely inserted into the measured medium up to the sealing chamfer)	
Temperature coefficient [% of the span / 10 K]	< ± 0,01; (In case of deviation from the reference condition 25 ± 5 °C)	
Reaction times		
Dynamic response T05 / T09 [s]	6 / 13	
Max. measuring/display cycle [ms]	600	
Software / programming		
Parameter setting options	parameter setting to PROFIBUS PA profile temperature transmitter, version 3.01; I&M-Parameter; drift and diagnostic function	
Operating conditions		
Ambient temperature [°C]	-25...70	
Note on ambient temperature	electronics: -25...70 °C Process connection: -32...170 °C	
Storage temperature [°C]	-40...85	
Protection	IP 68; IP 69K	
Tests / approvals		
EMC	DIN EN 61000-4-2 ESD	4 kV CD / 8 kV AD
	EN 61000-4-3 HF radiated	10 V/m
	DIN 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)
Note on approval	Including free 5-point calibration certificate.	
Mechanical data		
Material	stainless steel (1.4404 / 316L); PEI; FKM	
Materials (wetted parts)	stainless steel (1.4404 / 316L)	
Process connection	G 1 Aseptoflex Vario	
Surface characteristics Ra/Rz of the wetted parts	Ra: < 0.6	
Remarks		
Remarks	n.c. = not used	
	cULus - Class 2 source required	
	9...24 V DC when used inside the hazardous area	
Pack quantity	1 pcs.	

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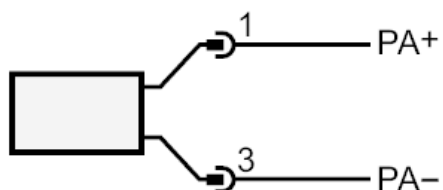


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Electrical connection

Connection



Connector: 1 x M12; Contacts: gold-plated