

TEMPERATURE TRANSDUCER

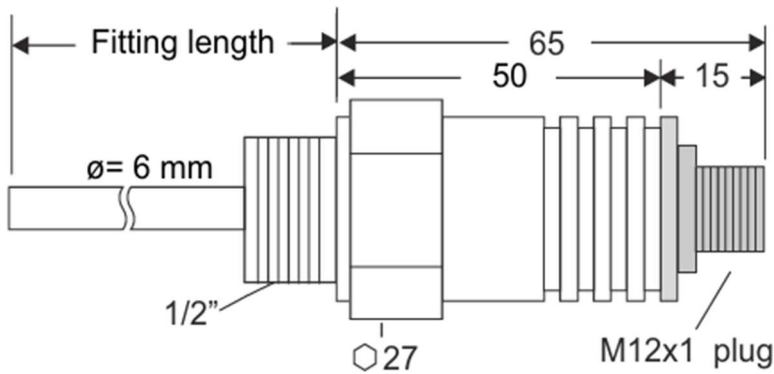
🌡 Temperature



- Stainless Steel 1.4571, PBT GF30
- RESOLUTION 24 bit
- IP65 PROTECTION RATING



DIMENSIONS



TECHNICAL DATA

PRECISION

Output	4...20 mA 2 Wire
Accuracy	max. 0,1% of measurement range + sensor error
Accuracy	Class A
Sensors	1x Pt100 / 1x Pt1000 / 2x Pt100 / 2x Pt1000
Sensor connections	2-Wire / 3-Wire / 4-Wire
Filter setting	5...5000 ms
Power-on delay	1ms
Measurement rate	10 measurements/s
Operating temperature range	-50...+200 °C
Storage temperature	-40...+85 °C
Medium temperature	-50...+425 °C
System pressure	25 bar maximum
Condensation	<95% rH
Min Span	50 °C

MECHANICAL PROPERTIES

Material	Stainless Steel, PBT GF30
Weight	200g

ELECTRICAL PROPERTIES

Current	4...20mA, 2-wire
Supply	12...30 VDC
Current range	3.8...20.5 mA
Signal fault	3,8 mA (sensor short circuit, underflow) 20,5 mA (sensor break, open circuit, overflow)
Voltage	0...10 V, 3-wire 0,5...10,5 V, 3-wire 2...10 V, 3-wire
Without transmitter	Connection on plug, cable lead out

ELECTRICAL CONNECTIONS

M12x1	Valve ¹	MIL	Cable	
				
4-pole 8-pole	4-pole	6-pole	n-pole	

1) As per EN 175301-803, type A



Pin Assignment without Transmitter										
Connection Type	2-Wire		3-Wire			4-Wire				
Connection 1 Sensor										
M12, 4-pole / 8-pole	3	2	4	3	2	4	3	2	1	
Valve, 4-pole	3	2	⚡	3	2	⚡	3	2	1	
MIL, 6-pole	B	C	A	B	C	A	B	C	D	
Cable, n-pole	bn	gn	ge	bn	gn	ge	bn	gn	ws	
Cable, n-pole (DIN 60751)	rt	ws	rt	rt	ws	rt	rt	ws	ws	
Connection 2 Sensors										
M12, 4-pole	Sensor 1	4	3							
	Sensor 2	2	1							
M12, 8-pole	Sensor 1	3	2	4	3	2	4	3	2	1
	Sensor 2	7	6	8	7	6	8	7	6	5
Valve, 4-pole	Sensor 1	⚡	3							
	Sensor 2	2	1							
MIL, 6-pole	Sensor 1	E	D	F	E	D				
	Sensor 2	B	A	C	B	A				
Cable, n-pole (DIN 60751)*	Sensor 1	rd	rd	rd	rd	wh	rd	rd	wh	wh
	Sensor 2	bk	bk	bk	bk	ye	bk	bk	ye	ye

*(Sensor 2): Gray (gr) is a possible alternative to black (bk).

Pin Assignment Analog-Transmitter						
Connection Type	2-Wire			3-Wire		
	+	OUT	-	+	OUT	-
M12, 4-pole	1	X	3	1	2	3
M12, 8-pole	1	X	3	1	3	8
Valve, 4-pole	1	X	2	1	3	2
MIL, 6-pole	A	X	C	A	E	C
Cable, n-pole	ye	X	wh	ye	gn	wh

Note: X = NC (not connected/unused)

COMPLIANCE AND CERTIFICATION

Protection Rating	IP65	
Compliance	CE, RoHS, REACH	
Calibration	Factory-calibrated	
HS-CODE	9031.80.80	
Certifications		II 1 G Ex ia IIC T6...T1 Ga II1/2 G Ex ia IIIC T6...T1 Ga/Gb II 2 G Ex ia IIC T6...T1 Gb
Certifications (on request)		Accredia traceable calibration report

