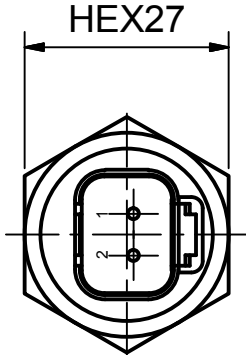


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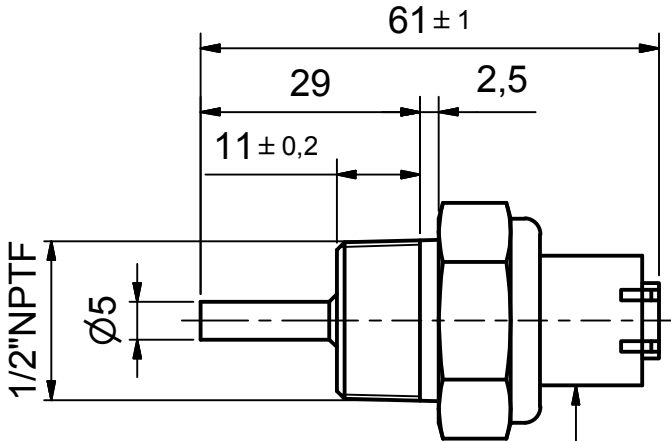
BEDIA Motorentechnik GmbH & Co.KG,
Altdorf bei Nürnberg

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Pin assignment:
1 and 2



Deutsch connector
DT04-2P

Supplier: BEDIA Motorentechnik GmbH & Co.KG, D-90518 Altdorf bei Nürnberg
Order number: 420347
Screw-in resistance thermometer
PT1000 measuring resistor

Mechanical Data:

Housing	CuZn38Pb2; EN12164, CW608N or CuZn39Pb3; EN12164, CW614N ^a
Mounting thread	1/2" NPTF
Number of measurement systems	1
Connection	Deutsch connector DT04-2P
Permanent marking	manufacturer's part number on hexagon
Tightening torque	max. 30 Nm

Electrical Data:

Measuring resistor	PT1000 per DIN 60751
Accuracy	±3 K
Temperature range	±1,5 K
-40°C to +15°C (-40°F to +59°F)	±3 K
+15°C to +125°C (+59°F to +257°F)	0°C : 1000 Ω
+125°C to +170°C (+257°F to +338°F)	100°C : 1385 Ω
Resistance value	< 1,0 mA
Measuring current	constant current or constant voltage
Power supply	according to VDE 0160 / 500 VAC, 50 Hz, 1 min
Voltage spikes	according to VDE 0100 / > 10 MΩ / 500 VDC
Dielectric strength against housing	

Nominal resistance of PT1000

Temperature [°C]	Resistance [Ω]	Temperature [°C]	Resistance [Ω]
-50 (-58)	803	60 (140)	1232
-40 (-40)	842	70 (158)	1270
-30 (-22)	882	80 (176)	1309
-20 (-4)	921	90 (194)	1347
-10 (-14)	960	100 (212)	1385
0 (32)	1000	110 (230)	1422
10 (50)	1039	120 (248)	1460
20 (68)	1077	130 (266)	1498
30 (86)	1116	140 (284)	1535
40 (104)	1155	150 (302)	1573
50 (122)	1194		

Environmental Conditions:

Relative humidity	92% at 40°C (104°F) / 83% at 23°C (73,4°F)
Measurement temperature range	-50°C to +250°C (-58°F to +482°F) (measured medium)
Connector housing temperature range	-30°C to +100°C (-22°F to +212°F)
Storage temperature	-40°C to +125°C (-40°F to +257°F)
	-60°C (-76°F) max. 20 hours
Vibration resistance	noise excitation 10 g ms 0,1 kHz to 2 kHz
Noise test (with noise)	half-sine-wave impact 50 g / 11 ms also BV 043
Shock resistance (peak)	20 bar (290,076 psi) ^a
Operating pressure	IP 67 per DIN 40 050 with mounted mating connector
Protection	VG 95 373 limit value class 2
EMC	lubricating oil, hydraulic oil, fuel, cooling water
Measured media	

field of application				admissible tolerance		surface	scale 1:1	position amount	
				ISO2768-mK					
				date	name	description			
				created by	27.10.2005	MoeMi	Screw-in resistance thermometer PT1000 with Deutsch connector DT04-2P		
				checked by	27.10.2005	ZibGu			
							drawing number		
							420347		
							drawing path: I:\CAD\420\420347US.idw		
a	material	10.10.12	BerVi/StaRo	BEDIA®					
rev.	modification	date	name/checked by						

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