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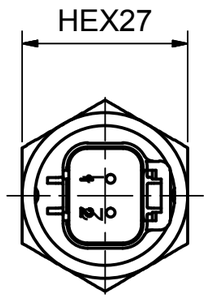
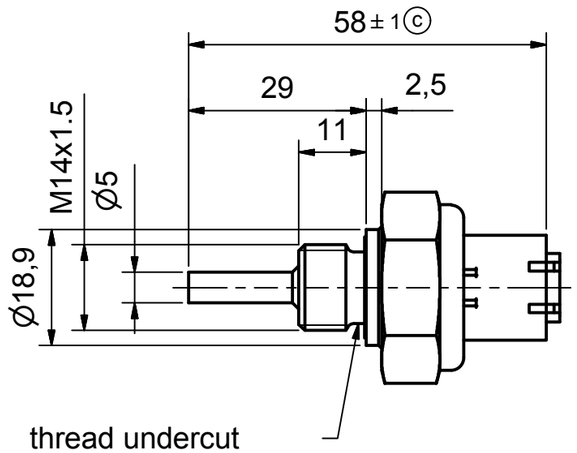
BEDIA Motorentechnik GmbH & Co.KG,
Altdorf bei Nürnberg



Pin assignment:
1 and 2



thread undercut
DIN3852 T11 Form-E

Supplier: BEDIA Motorentechnik GmbH&Co.KG, D-90518 Altdorf bei Nürnberg
Order number: 420346
Screw-in measuring resistor
Pt 1000 measuring resistor

Mechanical Data:	Housing material	CuZn38Pb2; EN12164, CW608N or © CuZn39Pb3; EN12164, CW614N
	Mounting thread	M14x1.5
	Sealing	gasket to DIN3869 FPM85
	Number of measurement systems	1
	Connector	Deutsch connector DT04-2P
	Permanent marking	manufacturer´s part number on hexagon
	Tightening torque	max. 30 Nm
Electrical Data:	Measuring resistor	Pt 1000 according to DIN 60751
	Accuracy Temperature range	
	- 40°C to +15°C (-40°F to +59°F)	±3 K
	+15°C to +125°C +59°F to 257°F)	±1,5 K
	+125°C to +170°C +257°F to +338°F)	±3 K
	Resistance value	0°C : 1000 Ω
		100°C : 1385 Ω
	Measuring current	< 1,0 mA
	Power supply	constant current or constant voltage
	Dielectric strength	according to VDE 0160 / 500 VAC, 50 Hz, 1 min
	Insulation resistance with respect to housing	according to VDE 0100 / >10 MΩ / 500 VDC
Environmental Condition:	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 test (with noise)	noise excitation 10 g ms 0,1 kHz to 2 kHz
	Shock resistance (peak)	half-sine-wave impact 50 g / 11 ms also BV 043
	Operating pressure	50 bar (725.19 psi)
	Protection	IP 67 according to DIN 40 050
		with mounted mating connector ©
	EMC	VG 95 373 limit value class 2
	Measured media	lubricating oil, hydraulic oil, fuel, cooling water, air and non-corrosive gas

© nominal resistance of Pt 1000

Temperature [°C]	([°F])	Resistance [Ω]
-50	(-58)	803
-40	(-40)	842
-30	(-22)	882
-20	(-4)	921
-10	(14)	960
0	(32)	1000
10	(50)	1039
20	(68)	1077
30	(86)	1116
40	(104)	1155
50	(122)	1194

Temperature [°C]	([°F])	Resistance [Ω]
60	(140)	1232
70	(158)	1270
80	(176)	1309
90	(194)	1347
100	(212)	1385
110	(230)	1422
120	(248)	1460
130	(266)	1498
140	(284)	1535
150	(302)	1573

Zust. / rev.	Änderung/modification	Datum/date	Name/Geprüft checked by
c	material; div.	04.08.17	Möderer/Saß
b	20 bar -> 50 bar	02.04.09	Möderer/Saß
a	see data	15.12.05	Möderer/Zibes

Zul. Abweichung / admissible tolerance: ISO2768-mK
Oberfläche / surface: - / -

	Datum / date	Name / name
Erstellt / created by	27.10.2005	Möderer
Geprüft / checked by	07.11.2005	Zibes

Format / Size: A3
Maßeinheit / dimension unit in [mm]

Maßstab / scale: 1:1
Sprache / language: ENU
Blatt / sheet: 1 /1

Benennung / description
Screw-in measuring resistor Pt 1000
with Deutsch connector DT04-2P

BEDIA®

Zeichnungsnummer / drawing number: 420346
Zng. Art/ drw.type: DRC

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