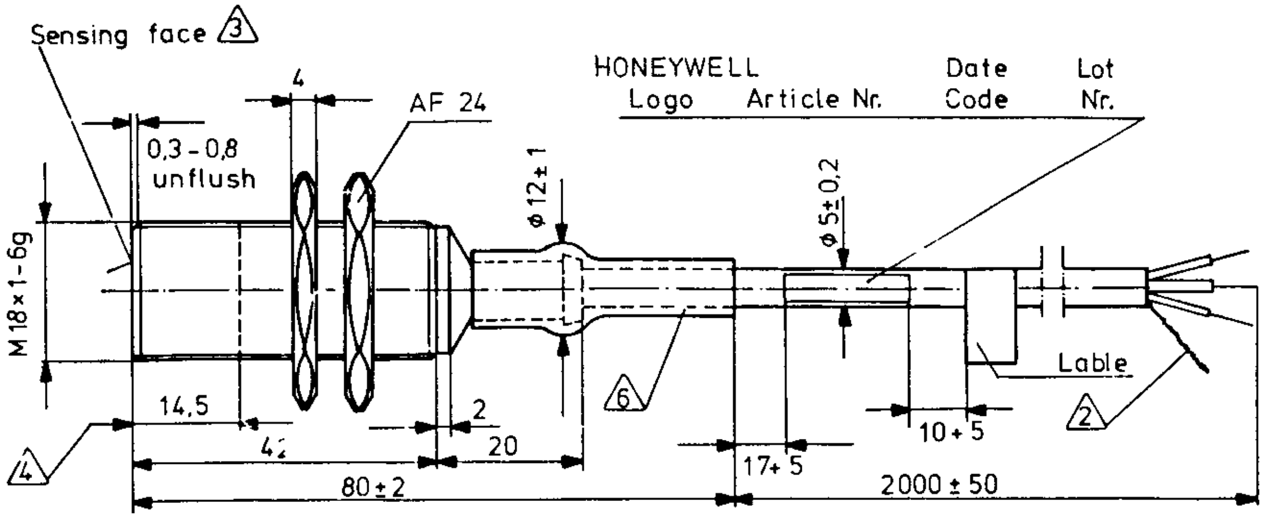


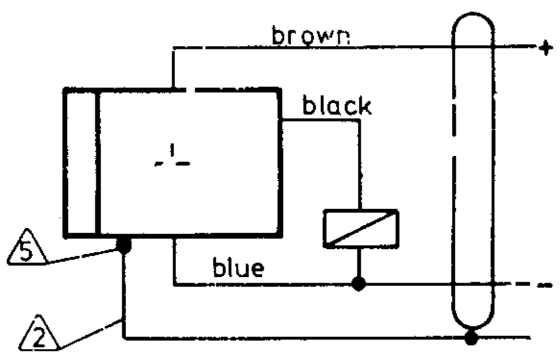
1. Housing and mounting nuts: Stainless steel 1.4541 to DIN 17440
2. Cable shield connected to housing
3. Sensing face: 96% Al_2O_3 Ceramic
5. Transition resistance ≤ 100 mOhm @ 100 mA
6. Tubing: RAYCHEM DR-25

FREIGABE „P"

Cable: PTFE insulated 19 x 0,13mm leadwires to MIL-C-22759/16 AWG 24, shielded, outher insulation HYTREL 4056

Mounting targue: max. 80Nm
max. 30Nm within 4

Thread quality: 6g



Freimaßtoleranz DIN 7168	fein	mittel
0,5 bis 3 mm	± 0,05	± 0,1
3 - 6 mm	± 0,05	± 0,1
6 - 30 mm	± 0,1	± 0,2
30 - 120 mm	± 0,15	± 0,3
120 - 400 mm	± 0,2	± 0,5
400 - 1000 mm	± 0,3	± 0,8

Maße ohne Toleranzangabe DIN 7168 fein, mittel, grob — Oberfläche DIN/ISO 1302 — Maßstab ./. — DIN A 4

Zust.	Änderung	Datum	Name
e	s. TAM 0930-89	31.08.89	Mch
d	s. TAM 0549-88	08.06.88	Mch
	Frg. „P" 3/88-4	11.2.88	
c	s. Tom 0066-88	14.1.88	
b	s. TAM 27-88	1.1.88	

	Datum	Name
Bearb.	25.6.86	Gnoth
Gepr.	25.6.86	
Norm	25.6.86	

HONEYWELL GMBH
Werke Dörnigheim
D 6457 Maintal
W-Germany

PROXIMITY SWITCH

932AA3W-A2P - PGM

43 187 357 - 001

Blatt 1

Ersatz für 43 187357-001 Rev. a' Freig. „E" 3/88-21

TECHNICAL DATA

		TESTS — REQUIREMENT / MEASURING METHOD 1	
SENSING CHARACTERISTICS			
Nominal sensing distance [mm]	5		
Effective sensing distance [mm]	4,5 to 5,5	5.3.2.1.8	a,b,c
Differential travel [%]	3 to 20	5.3.2.7	a,b,c
Stability of sensing distance [%]	+10/-5 within -25°C to +70°C	5.3.2.4	b,c
	+30/-5 within -40°C to +100°C	5.3.2.4	b,c
Reproduceability [%]	≤1	5.3.2.5.1	c
Repetition rate of sensing [Hz]	≥2000	5.3.2.12	c
Swing-on delay [ms]	≤10	5.3.2.13	c
POWER SUPPLY			
Supply voltage range [V]	20 to 33	5.3.1.4	a,b,c
Ripple [Vss]	≤7	MIL-STD-1275 A (AT)	c
Surge voltage [V]	100V , 50ms	MIL-STD-1275 A (AT)	c
Transients [V]	250V , 50µs	MIL-STD-1275 A (AT)	c
Burden current [mA]	≤10	5.3.1.7	a,c
OUTPUT CHARACTERISTICS			
Voltage drop [V]	≤3	5.3.2.17	a,b,c
Residual current [µA]	≤100	5.3.2.18.6	a,b,c
Load current [mA]	≤200 to +85°C lin falling to 100@+100°C	5.3.2.18.1	a,b,c
ENVIRONMENTAL CHARACTERISTICS			
Operating temperature range [°C]	-40 to +100	IEC 68-2-1 / IEC 68-2-2	b,c
Storage temperature [°C]	-55 to +100	IEC 68-2-8 / IEC 68-2-2	c
Damp heat , steady	56 days	IEC 68-2-3, Ca	c
Damp heat , cyclic	+55°C , 6 Cycles	IEC 68-2-30, Db	c
Rapid change of temperature	-55°C/+85°C , 5 Cycles	IEC 68-2-14, Na	a
Vibration	10 to 500Hz , 0.75/100ms^{-2}	IEC 68-2-6, Fc	c
Bump	400ms^{-2}, 6x4000 bumps	IEC 68-2-29, Eb	c
Shock	1000ms^{-2} / 6ms	IEC 68-2-27, Ea	c
Salt mist	pH 6.5-7.2 @ +35°C	IEC 68-2-11, Ka	c
Contamination resistance	Engine and gearbox oil, Aviation fuel Sea water , Water , Ethanol , Methanol	clause 14.3 DEF 133	c
Icing / freezing rain	Sensing characteristics not affected	521.0 MIL-STD-810D	c
Leakage (immersion)	98 kPa for 2 hours	512.2 MIL-STD-810D	c
Robustness of terminations			
Tensile [N]	40	IEC 68-2-21, Ua1	c
Insulation resistance [MOHM]	≥50 @ 500Vdc	5.3.1.8	a,c
Insulation voltage [Veff]	≥1000 @ 1min	5.3.1.10	c
SPECIAL FEATURES			
Reverse polarity, supply leads	yes	5.3.6.1	c
Short circuit protection	yes	5.3.6.4	a,b,c,
EMI	Class A3 , A4	MIL-STD-461B	d
EMP	Category B	DEF 07-55,T2,S5	d
MTBF Prediction	144000h @+20°C , NU/GM application	MIL-HDKB 217D	——

1 = to ZS-60000 if not otherwise specified

a = 100% test at +20°C

b = test within specified temperature range, test level II, AQL=4

c = type approval test

d = Specification by similarity

Mouser Electronics

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932AA3W-A2P-PGM