

TECHNICAL DATA

SENSING CHARACTERISTICS

Nominal sensing distance	[mm]	5	5.3.2.1.8	a,b,c
Effective sensing distance	[mm]	4.5 to 5.5	5.3.2.1.8	a,b,c
Differential travel	[%]	3 to 15	5.3.2.7	a,b,c
Stability of sensing distance	[%]	+10/-5 within -25°C to +70°C +25/-5 within -40°C to +100°C	5.3.2.4	b,c
Reproducibility	[%]	≤ 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-on false pulse	[µs]	t _{fp} 30% ≤ 250 R _i = 1kOhm	5.3.2.15.1	c

POWER SUPPLY

Supply voltage range	[V]	20 to 37.2	5.3.1.4	a,b,c
Ripple voltage	[mV]	≤ 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]	≤ 20	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]	≤ 250 to +20°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 state		56 days	IEC 68-2-3, Cd	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, Nd	c
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, Ed	c
Salt mist		pH 6.5-7.2 @ +35°C	IEC 68-2-11, Ka	c
Tensile strength	[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

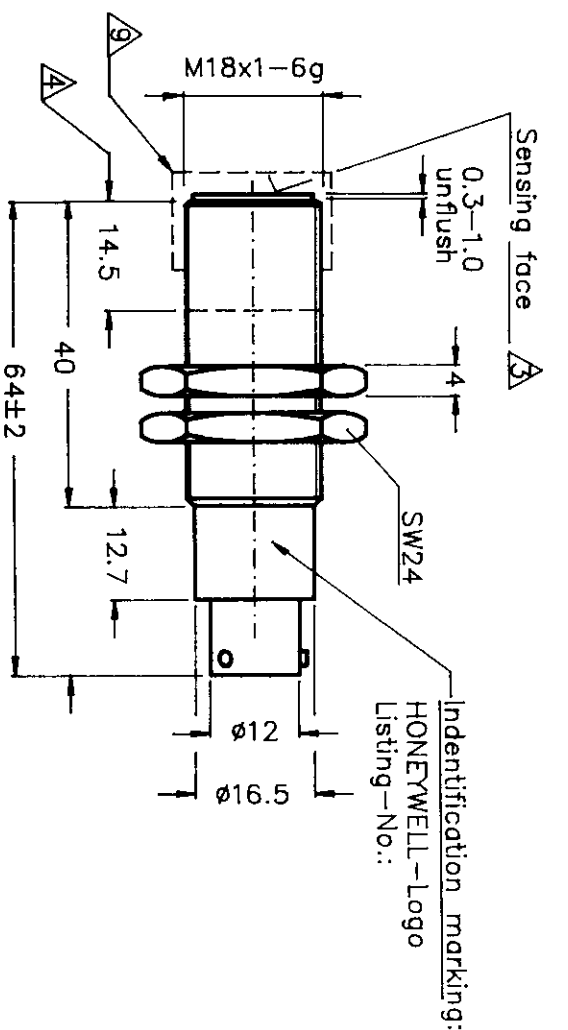
SPECIAL FEATURES

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	c,d
EMP	Category B	DEF 07-55,T2,S5	c,d
MTBF Prediction	160449 @ +20°C, GM application	MIL-HDKB 217D	

- △ = to ZS-60000 if not otherwise specified
- △ = CE03,CS01,CS02,CS06,RE01,RS01,RS02,RS03 ? / 50kV/m,130A/m
- a = 100% test at +20°C
- b = test within specified temperature range, test level II, AQL=4%
- c = type approval test
- d = in reference to similar listings (932AA3W-A2P-PCM and ZS-00209-72)

TESTS

REQUIREMENT —
MEASURING METHOD —

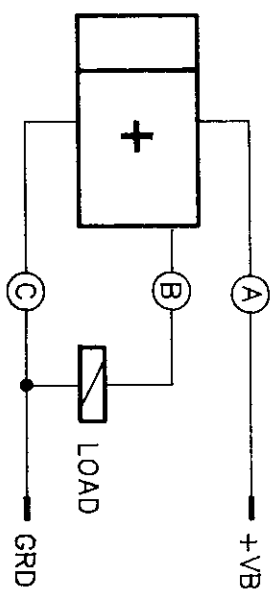


- △ Housing and mounting nuts: Stainless steel to 1.4541
- △ Sensing face: 96% Al₂O₃Ceramic
- △ Sensing face transport protection

Connector : 3-pin, size 8, MIL-C-26482 series 1 / VG95328

Mounting torque : max. 80Nm
max. 30Nm within △

Thread quality : 6g



FREIGABE

Freigegeben durch	Freigegeben am	Freigegeben für	Freigegeben für
3	3	3	3
100	100	100	100
400	400	400	400
1000	1000	1000	1000

Proximity Switch

ZS-00303-01

IAEM 994-9117.9.92 Gn	HONEYWELL	Soch-Nr.	43187383-001
Erk. P 3/88-1018.7.88 Ba	REGELSYSTEME GMBH	Blatt	1
Erk. E 3/88-1 13.1.88 Eay	D 6457 Maintol	Blatt	2
Zust.	Germany	Blatt	2

ZS303-01