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Interactive Catalog.**

Sensing and Control

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ZS-00415-01

TWO PART M12 PROXIMITY SENSOR

Description :

The ZS-00415-01 two part proximity sensor is designed to work in conjunction with Honeywell Sensor Interface Module (ZS-00380 Series).

Designed for the extreme environments encountered in aerospace applications, the sensor is enclosed in a rugged hermetically sealed stainless steel housing and contains only a passive sensing element based on the variable inductance balanced bridge principle. This is used to detect ferrous objects passing in front of the sensing face. The electronic conditioning circuitry is contained on the separate Sensor Interface Module which may be located in a more sheltered environment.

The combined sensor and interface system is highly reliable with Mean Time Between Failure in excess of 450K hours.



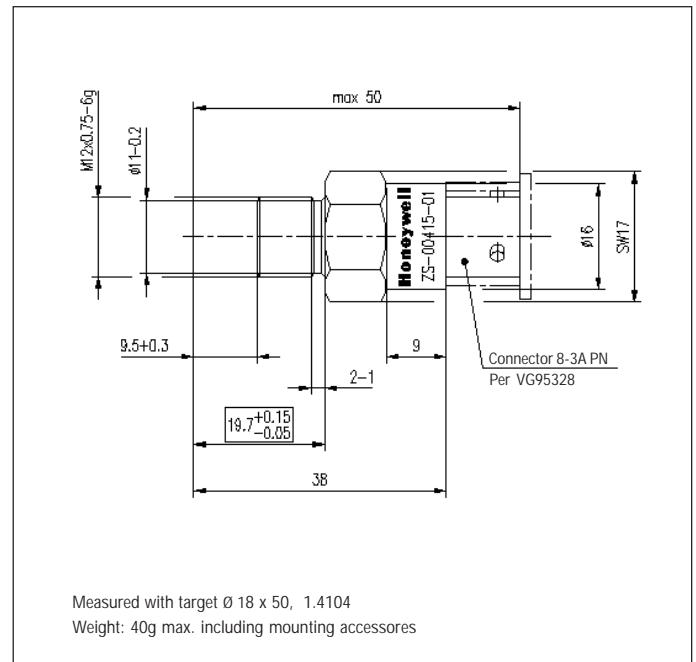
Features :

- Ferrous metal sensing
- Integral VG95328 (MIL-C-26482) connector
- Built In Test function (BITE)
- High reliability

Typical Applications :

- Aircraft landing gear
- Flight control systems
- Aircraft door monitoring

Dimensions in mm (for reference only)



Specifications

Sensing Characteristics :		
	Level	Specification (Note 1)
Nominal sensing distance	2.00 mm	
Minimum operating distance	≥ 1.50 mm	
Maximum release distance	≤ 3.20 mm	
Switching hysteresis	$0.05 \leq S_n \leq 0.35$ mm	
Reproducibility	≤ 0.02 mm	
Response time, actuation	≤ 25 ms	
Response time, BITE and status	≤ 100 ms	
Environmental Conditions :		
Operating temperature	-35° C to +63° C	
Storage temperature	-35° C to +63° C	VG95332, BI 22/23
Temperature shock	> 1° C/min	
Humidity of the air, storage	95% at +40° C, 4x24 hours	VG95332, B1. 6
Humidity of the air, operation	95% at +44° C, 1x24 hours	
Salt mist	1 cycle, 48 hours	VG95332, B1. 14
Degree of protection	IP54	
Sand and dust	Stable	MIL-810C, 510.1
Vibration	1.5 g _{eff} at 60-400 Hz 1.0 g _{eff} at 400-2000 Hz	
Bump	60 x 10 g at 6 ms	VG95332, B1. 11
Shock	18 x 500 g at 0.5 ms	VG95332, B1. 16
Resistance to fuel	Aircraft fuel, oil, grease, protective agents	AWEII, 10.02.92
EMC :		
Insulation resistance	> 10 MΩ at 500 V	
Contact resistance	< 5 mΩ at 100 mA	
Guided interference transmissions	GKL2, 10 kHz - 100 MHz	VG95373, LA-01-G
Magnetic flux density	GKL2, 30 kHz - 200 kHz	VG95373, SA-01-G
Magnetic field intensity	GKL2, 15 kHz - 30 MHz	VG95373, SA-02-G
Electromagnetic field intensity	GKL2, 30 MHz - 100 MHz	VG95373, SA-04-G
Guided immunity from distortion	≤114 dB μA, 10 kHz - 100 MHz	DEF-STAN 59-41, DCS, 02
Magnetic immunity from noise	GKL2, 10 kHz - 200 kHz	VG95373, SF-01-G
Electromagnetic immunity	GKL2, 30 MHz - 100 MHz	VG95373, SF-03-G
Electrostatic discharge	GKL2	VG95373, LF-05-G
MTBF	≥ 2.5 hrs x 10 ⁶ at GM	MIL-HDBK-217 F
Notes: 1. Unless otherwise stated, tested to or by similarity to Honeywell internal specifications		
Ordering guide		
Listing	Description	
ZS-00415-01	Two part M12 proximity sensor	