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Sensing and Control

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ZS-00357-270

TWO PART UNDERWATER PROXIMITY SENSOR

Description :

The ZS-00357-270 is a two part proximity sensor designed to work in conjunction with the 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 sensor is overmoulded to provide complete encapsulation. 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 475K hours.



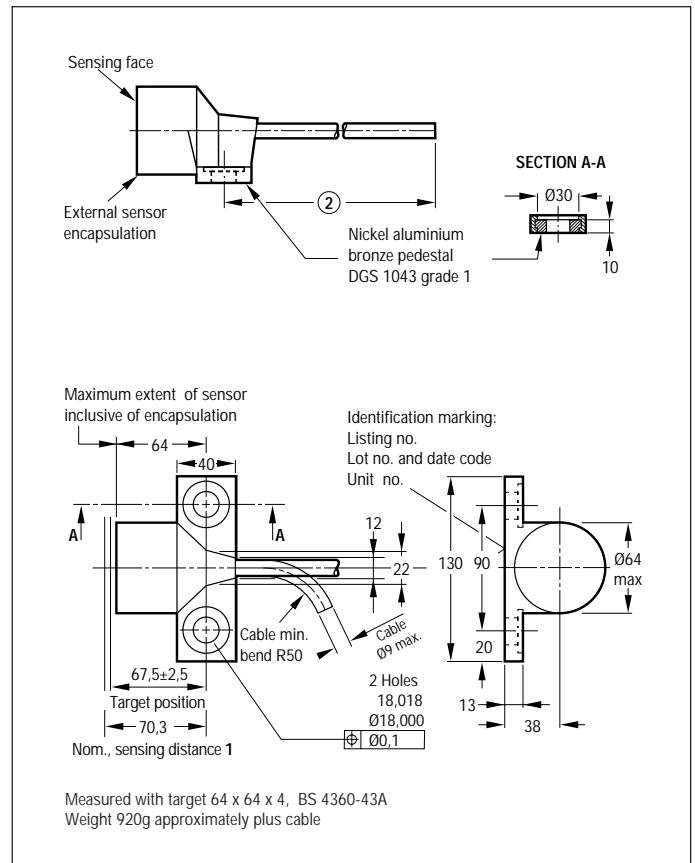
Features :

- Ferrous metal sensing
- High level sealing by overmoulding - designed for permanent immersion in water
- High pressure capability
- Built In Test function (BITE)
- High reliability

Typical Applications :

- Submarine torpedo tubes
- Submersible vehicles
- Offshore underwater equipment
- Underwater pipeline controls

Dimensions in mm (for reference only)



Specifications

Sensing Characteristics :		Tests	
		Measuring method (Note 1)	
Minimum operating distance (mm)	68,50		
Maximum release distance (mm)	73,50		
Response time sensing (ms)	≤50		
Response time BITE (mm)	≤150		
Environmental Characteristics :			
Operating temperature in sea water (°C)	+5 to +40	IEC68-2-1/68-2-2	
Storage teperature in sea water (°C)	-5 to +40	IEC68-2-8/68-2-2	
Storage temperature in air (°C)	-5 to +70	IEC68-2-8	
Sea water	Yes	DEF 133, Clause 14.0	
Contamination resistance	Weak bases and acids 60 mg/m ³	Yes	DEF 133, Clause 14.1/2
	Aliphatic hydrocarbons 100 mg/m ³	Yes	DEF 133, Clause 14.3
	Aromatic hydrocarbons	Yes	DEF 133, Clause 14.3
	Otto fuel	Yes	DEF 133, Clause 14.3
	Lubricating oil	Yes	DEF 133, Clause 14.3
	Hydraulic oil	Yes	DEF 133, Clause 14.3
	Paraffin oil	Yes	DEF 133, Clause 14.3
	Hydrogen peroxide	Yes	DEF 133, Clause 14.3
	Insulation resistance (MOhm)	≥10	
Hydrostatics withstand pressure (MPa)	≤40		
Shock (ms ⁻²)	3000 @ 2.5 ms	IEC 68-2-27	
Vibration	5-33 Hz, 0.125 mm	MIL-STD-810D 514.3	
EMI	Class A5	MIL-STD-461B	
MTBF prediction (hrs)	3,33 x 10 ⁶	MIL-HDBK-217E	

Notes :

1. Unless otherwise stated, tested to or by similarity to Honeywell internal specifications
2. Standard cable length is 27 m.

Ordering guide		
Listing	Description	
ZS-00357-270	Two part underwater proximity sensor	