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# 922FS2-A6N-Z735A

## ONE PART 12MM CYLINDRICAL PROXIMITY SENSOR

### Description :

Environment-proof self-contained proximity sensor enclosed in a rugged hermetically sealed ceramic/stainless steel housing, designed to meet the requirements of aerospace applications.

Operation by the Eddy Current Killed Oscillator (ECKO) principle, which is used to detect metallic objects passing in front of the sensing face. Once a target metal is detected, a trigger signal is produced which is then passed through the output conditioning circuitry to give a high or low output, depending on the sensor application.



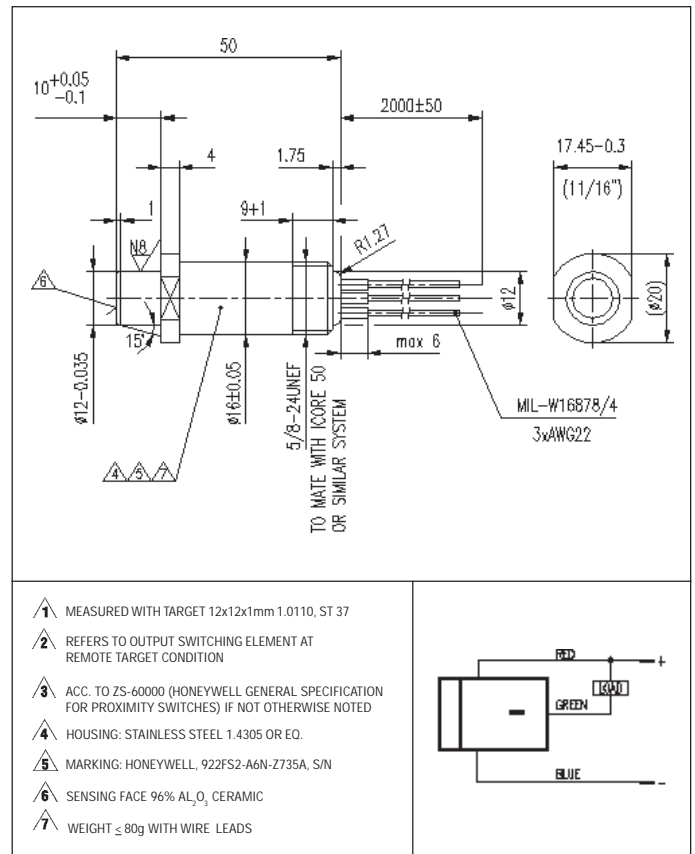
### Features :

- All metal sensing
- Small size 12mm cylindrical housing
- High pressure capability (>350 bar)
- High level EMC and lightning strike performance

### Typical Applications :

- Aircraft hydraulic systems
- Fighting vehicle engine and transmission controls
- Ship and submarine hydraulic systems

Dimensions in mm (for reference only)



# Specifications

Sensing Characteristics :		
	Level	Specification (Note 1)
Switching function	Normally open, current sink	Note 2
Guaranteed actuation distance	≥ 1.70 mm	
Guaranteed deactuation distance	≤ 2.80 mm	
Electrical Specifications :		
Power Supply -		
Supply voltage	14 to 32.5 V	RTCA/DO-160C, CAT A
Ripple voltage	≤ 1.4 V /0.01-200 kHz	RTCA/DO-160C, CAT A
Surge voltage	46 V in 100 ms	RTCA/DO-160C, CAT A
Voltage spikes	600 V at 5 μs	RTCA/DO-160C, CAT A
Current consumption without load	≤ 10 mA	
Dielectric strength	> 500 V	ABD 0007, 2-3.7.1
Insulation resistance	> 100 MOhm at 45 V	ABD 0007, 2-3.7.2
Output -		
On state output voltage	≤ 1.65 at 250 mA	
Load current	≤ 250 mA	
Off state leakage current	≤ 100 μA	
Overload protection	Yes	
Environmental Specifications :		
Operating temperature range	-55° to +85° C	RTCA/DO-160C, 4.3
Storage temperature	-65° to +85° C	RTCA/DO-160C, 4.3
Pressure proofness, burst	≥ 350 bar	
Altitude/pressure	-305 m to +13,030 m	ABD 0007, 3-3
Humidity	Category B	ABD 0007, 3-4.2
Water immersion	250 mbar	AIR 1810A, 5.1
Salt mist (spray)	Category S	ABD 0007, 3-7
Vibration	Category 6 (D/R)	ABD 0007, 3-9.2
Vibration spectrum code	D/R	ABD 0007, 3-9.2
Operational shock	6 g/11 ms	ABD 0007, 3-11.1
Constant acceleration	6.5 gn	ABD 0007, 3-12.3
EMC Requirements :		
AF conducted susceptibility	Category A	RTCA/DO-160C, 18
Induced signal susceptibility	Category A	RTCA/DO-160C, 19
RF susceptibility	Category A1B, 10 V/m	MIL-STD-461 B
RF Emission	Category A	RTCA/DO-160C, 21
Lightning induced transient susceptibility	Category XXE5	RTCA/DO-160C, 22 June 19, 1992
Mean Time Between Failure prediction	120000 hrs	MIL-HDBK-217 E
Notes :		
1. Unless otherwise stated, tested to or by similarity to Honeywell internal specifications		
2. Refers to output switching element at remote target condition		
Ordering guide		
Listing	Description	
922FS2-A6N-Z735A	Normally open, current sinking	