

## Interactive Catalog Replaces Catalog Pages

Honeywell Sensing and Control has replaced the PDF product catalog with the new **Interactive Catalog**. The **Interactive Catalog** is a power search tool that makes it easier to find product information. It includes more installation, application, and technical information than ever before.



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**Sensing and Control**

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# 932 AB2W / 932 AA3W SERIES

## ONE PART M12 AND M18 PROXIMITY SENSORS

### Description :

Environment-proof self-contained proximity sensor enclosed in a rugged hermetically sealed ceramic/stainless steel housing, designed to meet the requirements of ground mobile and naval 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 :

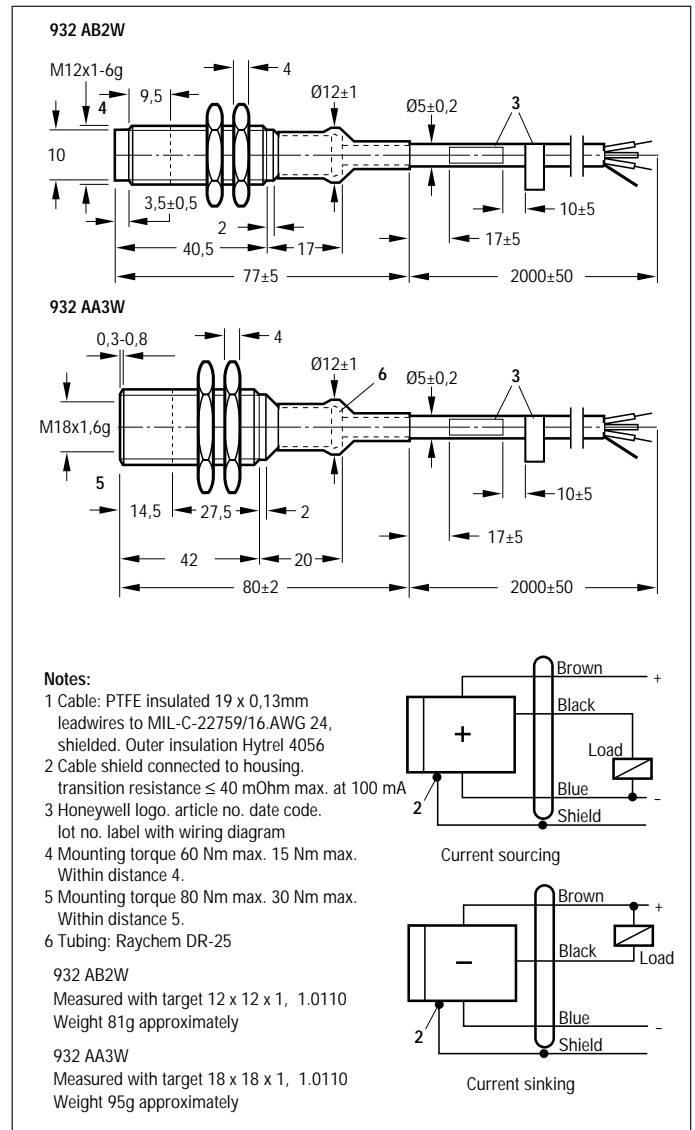
- All metal sensing
- High frequency switching
- High level of electronics protection

### Typical Applications :

- Ammunition loading systems
- Gun turret position control
- Door and hatch open/closed monitoring



Dimensions in mm (for reference only)



Ordering guide	
Listing	Description
932AB2W-A2P-PGM	Normally open, current sourcing
932AA3W-A2P-PGM	Normally open, current sourcing
932AB2W-A2N-PGM	Normally open, current sinking
932AA3W-A2N-PGM	Normally open, current sinking

# Specifications

Sensing Characteristics :		Tests	
		Measuring method (Note 1)	
Nominal sensing distance (mm)			
932-AB2W-A2P-PGM	4		
932-AA3W-A2P-PGM	5		
Effective sensing distance (mm)			
932AB2W-A2P-PGM	3,6 to 4,4		
932AA3W-A2P-PGM	4,5 to 5,5		
Stability of sensing distance (%)			
932-AB2W-A2P-PGM	+12.5/-5 within -25° C to +70° C		
	+30/-5 within -40° C to +100° C		
932-AA3W-A2P-PGM	+10/-5 within -25° C to +70° C		
	+30/-5 within -40° C to +100° C		
Differential travel (%)			
932AB2W-A2P-PGM	2 to 20		
932AA3W-A2P-PGM	3 to 20		
Reproduceability (%)	≤1		
Operating frequency (Hz)	≥2000		
Power-on delay (ms)	≤10		
<b>Power Supply :</b>			
Supply voltage range (V)	20 to 33		
Ripple (V)	≤7		MIL-STD-1275 A(AT)
Surge voltage (V)	100 in 50 ms		MIL-STD-1275 A(AT)
Transients (V)	250 in 50 μs		MIL-STD-1275 A(AT)
Burden current (mA)	≤10		
<b>Output Characteristics :</b>			
Voltage drop (V)	≤3		
Residual current (μA)	≤100		
Load current (mA)	≤200 up to 85°C lin falling to 100 at 100°C		
<b>Environmental Characteristics :</b>			
Operating temperature range (°C)	-40 to +100		IEC 68-2-1/IEC 68-2-2
Storage temperature (°C)	-55 to +100		IEC 68-2-8/IEC 68-2-2
Damp heat, steady state (days)	56		IEC 68-2-3. Ca
Damp heat, cyclic	6 cycles at 55° C		IEC 68-2-30. Db
Rapid temperature change	-55 to +85° C for 5 Cycles		IEC 68-2-14. Na
Vibration	10 to 500 Hz at 0,75 to 100 ms <sup>-2</sup>		IEC 68-2-6. Fc
Bump	400 ms <sup>-2</sup> at 6 x 4000 bumps		IEC 68-2-29. Eb
Shock	1000 ms <sup>-2</sup> at 6 ms		IEC 68-2-27. Ea
Robustness of terminations: Tensile (N)	40		
Insulation resistance (MOhm)	≥50 at 500 Vdc		
Insulation voltage (Vrms)	≥ 1000 at 1 min		
Icing/freezing rain	Sensing characteristics not affected		521.0 MIL-STD-810D
Leakage (2 hour immersion)(kPa)	98		521.2 MIL-STD-810D
Contamination resistance	Engine, gearbox oil, water, sea water, aviation fuel, ethanol and methanol		DEF 133. CLAUSE 14.3
<b>Special Features :</b>			
Reverse polarity supply leads	Yes		
Short circuit protection	Yes		
EMI	Class A3, A4		MIL-STD-461B
EMP	Category B		DEF 07-55, T2,S5
MTBF prediction	144000 h at 20°C. NU/GM application		MIL-HDBK 217E
<b>Notes :</b>			
1. Unless otherwise stated, tested to or by similarity to Honeywell internal specifications			