Honeywell

Honeywell Sensing and Control



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ZS-00434-01



One Piece Sensor, Harsh Environment 3-wire dc, Cylindrical, Stainless steel, Ceramic, NO Current Sink, 14 Vdc to 33 Vdc, ZS Series

Actual product appearance may vary.

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Features

Hall effect, magnetic field sensitive
High frequency switching
Small housing
High level of electronics protection
Leadwire or connector termination
Factory mutual certified for Class 1, Division 2, Groups A,B,C,D.

Potential Applications

Aircraft landing gear
Gun turret position control
Door and hatch open/closed monitoring

Description

Environment-proof self-contained proximity sensor enclosed in a rugged stainless steel housing, designed to meet the requirements of aerospace, ordnance, marine, mass transit and high performance industrial equipment. Operation by Hall Effect principle, which is used to detect magnetic fields 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.

Supporting Documentation
None Available

Product Specifications	
Packaging	One Piece Sensor
Sensor Type	Harsh Environment
Shape	Cylindrical
Dimension	M12
Technology	ECKO
Cable Length	700 mm [28 in]
Operating Frequency	2000 Hz
Load Current	200 mA
Supply Current	10 mA
Housing Material	Stainless Steel
Sensing Face	Ceramic
Gd (mm)	4.31
Guaranteed Actuation Distance	2 mm to 2.99 mm [0.0787 in to 0.1177 in]
Operating Temperature Range	-40 °C to 100 °C [-40 °F to 212 °F]
Shock	100 g 6 ms
Vibration	*
Supply Voltage	14 Vdc to 33 Vdc
BITE Yes/No	No
Short Circuit Yes/No	Yes
Pressure proof Yes/No	No
Reverse polarity Yes/No	Yes
MTBF (hrs)	144000
Conducted suscept	Mil-STD-461B
Conducted emission	Mil-STD-461B
RF suscept	Mil-STD-461B
RF emission	Mil-STD-461B
LEMP	DEF 07-55, T2, S5
Insulation Resistance	50 Mohm @ 500 Vdc
Comments	*Freq range 10 to 500Hz, Cross Over Freq (COF) 58-62Hz, 0.75ms-2 below COF 100ms-2 above COF
Termination	Leadwire,Connector
Connector Type	M83723-72R-1005N
Output Type	Normally Open, Current Sinking
Series Name	ZS

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