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ZS-00445-050

Image Not Available

One Piece Sensor, Harsh Environment
3-wire dc, Cylindrical, Stainless steel,
Ryton R4, NO Current Source, 10 Vdc to
32.2 Vdc, ZS Series

Features

Hall effect, magnetic field sensitive
High frequency sw itching
Small housing
High level of electronics protection
Leadw ire 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, w hich is used to detect magnetic fields passing in front of the sensing face. Once a target metal is detected, a trigger signal is produced w hich 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	M18
Technology	ECKO
Cable Length	5000 mm [197 in]
Load Current	250 mA
Supply Current	15 mA
Housing Material	Stainless Steel
Sensing Face	Ryton R4
Gd (mm)	8.25
Guaranteed Actuation Distance	4 mm to 4.99 mm [0.1574 in to 0.19646 in]
Operating Temperature Range	-40 °C to 80 °C [-40 °F to 176 °F]
Shock	6 g 11 ms
Vibration	Cat T*
Supply Voltage	10 Vdc to 32.2 Vdc
BITE Yes/No	No
Short Circuit Yes/No	Yes
Pressure proof Yes/No	No
Reverse polarity Yes/No	Yes
MTBF (hrs)	80000
Altitude pressure	-1300 to 25000ft
Conducted suscept	RTCA/DO-160C
Conducted emission	RTCA/DO-160C
RF suscept	RTCA/DO-160C
RF emission	RTCA/DO-160C
LEMP	RTCA/DO-160C
Insulation Resistance	50 Mohm @ 500 Vdc
Termination	Leadwire
Output Type	Normally Open, Current Sourcing
Series Name	ZS

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