

2 WIRE CURRENT SINK INDUCTIVE PROXIMITY SWITCH

- > Compact
- > Lightweight
- > Qualified to DO160G
- > Built in Test



For harsh environment with current loop output NO (Normally Open)

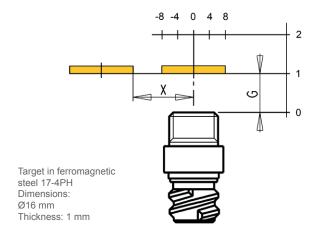
SPECIFICATIONS CHARACTERISTICS CONNECTION Not connected **Temperature** -55 °C ... +85 °C Actuation (head on) 1.8 mm (0.071 in) Useful signal Deactuation (head on) 4.7 mm (0.185 in) Wiring diagram Weight (with accessories) 70 g (0.154 lb) max **Power Supply** 16..32.5 V== with load adaptation Nominal voltage 15 V== ± 10 % Positive node Insulation resistance ≥ 100 MΩ under 500 V---V out Negative node 1000 V \sim / 50 Hz. leakage current below Dielectric strenght 1 mA Normally Open (NO): i.e. when target is far there is 2.5 m Ω max between case and **Electrical continuity** no current (zero current) in the switch; because of connector BIT, current is close to zero through the switch ~ 2 mA (see below). Switching response time 5 ms max Switching frequency 100 Hz max

OUTPUT STATES AND PERMANENT BUILT IN TEST INFORMATION (PBIT) Load Current* < 1 mA 1 mA < I < 3 mA 3 mA < I < 6 mA 6 mA< I < 12 mA I >12 mA Proximity Switch **Proximity Switch** Proximity Switch Output state failure or external Target far Target near internal failure or internal failure wiring open external short circuit

^{*} Load = $400 \Omega \pm 5\%$

INDUCTIVE PROXIMITY SWITCH

DETECTION CURVE (SLIDE BY MODE)



G (mm)		
5		——Guaranteed
		De-Actuation Typical De-Actuation Typical Actuation
		Guaranteed Actuation
	X (mm)	
-6 -4 -2 (2 4 6 8 1	0

DO-160G section		CATEGORY
4	Operating Low/High temperature	D2
4	Short time operating temperature	D2
4	Altitude	D2
5	Temperature variation	Α
6	Humidity	С
7	Shocks and crash safety	В
8	Vibration	S - CURVE W&E1
9	Explosive atmosphere	Н
10	MIL PRF 8805 F WATERTIGHT SYMBOL 3	S
11	Fluids susceptibility	F
12	Sand and dust	S
13	Fungus	F
14	Salt spray	S
15	Magnetic effect (DO 160D)	Α
16	Power Input (DO 160D)	Z
17	Voltage Spike	А
18	Audio frequency conducted susceptibility (DO 160D)	Z

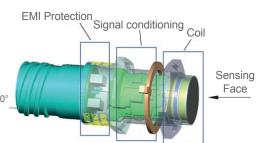
DO-160G section		CATEGORY
19	Induced signal susceptibility	ZW
20	Radio frequency susceptibility (radiated and conducted)	Υ
21	Emission of radio frequency energy	M
22	Lightning Induced Transient Susceptibility	B3H3L3
24	Icing	Α
25	Electrostatic discharge (DO 160D)	Α

Qualification report available upon request

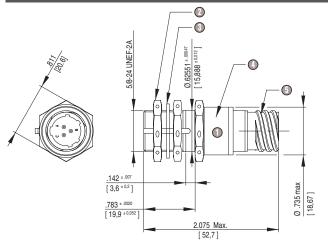
To ensure EMI compliancy:

1) The harness of the proximity switch must use AWG 24 (minimum diameter) twisted and shielded wires

2) Wiring external to fuselage must have a 360° shielded bond



DIMENSIONS inch [mm]



- AISI 304L Stainless Steel body
- ② Stainless steel nut MS 21340-05 or equivalent
- ③ Stainless steel lock washer MS 25081-C6 or equivalent
- Laser marking
- Connector D38999/25YA98PN to mate with D38999-26KA98SN

This product is used today in aerospace thrust reverse and landing gear applications. Modifications on threading, connector, EMI performance, or environment category are possible.

Contact our Specialist Distributors:

http://aerospace.crouzet.com/contact-crouzet-aerospace/

