
Qualified to specification EI 1592 1st Edition

Electronic sensor to distinguish between aviation fuel and water. The SLUGGUARD® enables continuous detection of water in sumps of filter/water separators or in drain points of filter vessels. The high-precision switch is also suitable for small filter housings (FBO) in the general aviation area.



A blue LED light indicates operating or alarm switching states. An alarm condition is being activated in response to a bulk quantity of free water in the line.

Application Area

- Electronic bulk water sensor according to EI 1592 1st Edition
- Fit for purpose in/below water sumps of filter/water separators

Technical Data

Environmental conditions

- Operating temperature range: -40°C (-40°F) to 85°C (185°F)
- Storage temperature range: -40°C (-40°F) to 85°C (185°F)
- Ambient humidity: <98 % RH, condensing
- Protection glass: IP67, IP69K (with appropriate cable)
- Oscillations (sinusoidal): 1.6 mm p-p (2...25 Hz), 4 g (25...100 Hz)
(EN 60068-2-6) 1 octave / min.

Power supply

- Voltage supply range: 12...30 V DC
- Reverse polarity protection: Yes
- Current consumption (without load): 25 mA typ., 50 mA max.
- Power-up time < 2 s

Features

- Repeatability: ± 1 mm
- Hysteresis: ± 1 mm
- Response time: 0.1 s
- Damping: 0.0...10.0 s (configurable)

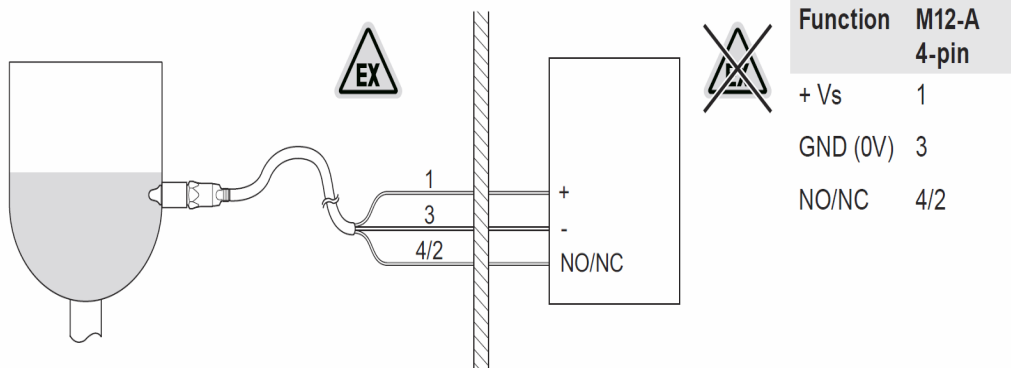
Output signal

- Output type PNP
NPN
- Current load 20 mA max.
- Short circuit protection Yes
- Voltage drop: PNP (+Vs -1.5 V) ±0.5 V, Rload = 10 kΩ
NPN(+1.5 V) ±0.5 V, Rload = 10 kΩ
- Leakage current: ± 100 µA max.
- Switching logic: Normally open (NO), active low
Normally closed (NC), high enabled

Data For Application In Connection With Hazardous Areas

ATEX II 1G Ex ia IIC T4/T5

- Highest values for selection of barriers: Ui: 30 V DC
li: 100 mA
Pi: 0.75 W
Ci: 43 nF
Li: 10 µH
- Internal capacitance:
- Internal inductance:
- Temperature class
Standard version: T4: -40 < Tamb < 85°C (185 °F)
T5: -40 < Tamb < 74°C (165 °F)



SLUGGUARD® uses a 4-wire cable. IN PNP connection – only black, brown and blue cables are in use – white is only needed for programming. For further information on hazardous area requirements, please refer to the manual.

Standard Design

- Material: Stainless steel
- Seal thread: Teflon® (PTFE)
- Process connection: G 1/2 inch