

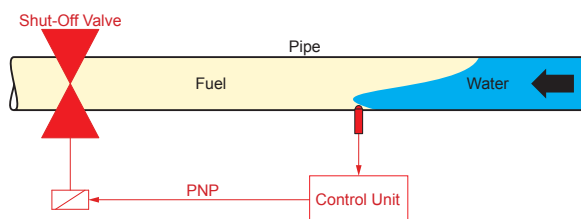
SLUGGUARD® - Water slug indication

Applications

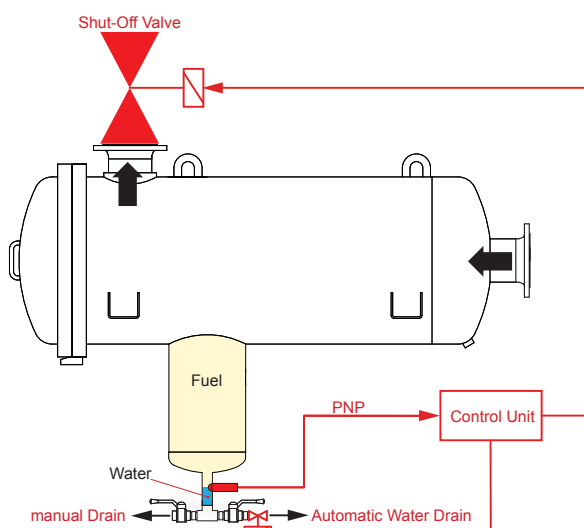
The SLUGGUARD® of FAUDI Aviation GmbH is the best way to differentiate media with just one sensor to be installed in water sumps, drain-pipes, filter heads or wherever a clear indication about the actual water-situation is required. Connected to a control system enables the user to easily configure automated drainage of vessels according to JIG requirements.



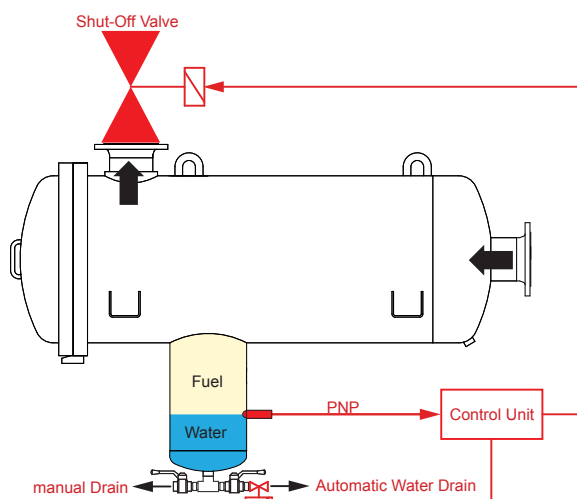
Slugguard®



Sample of Application: Installation in a pipe



Sample of Application: Filter Water Separator



Sample of Application: Filter Water Separator

Technical Details

- Wetted parts in stainless steel and PEEK
- Compact design
- LED switch indicator available
- Preconfigured by FAUDI Aviation
- Process temperature -40 ... +115°C
- Precise switching point with no requirement for calibration
- Maintenance free
- Best for media separation
- ATEX approval
- Measures and differentiates media like water, Jet A1, Diesel (ask for different media)

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SLUGGUARD® - Water slug indication

Technical Data

Sensor		Approval Ex ia IIC, ATEX II 1G	
Radiated signal	100...180 MHz	Supply range	24...30 VDC
Process connection	Refer to dimensional drawing	Temperature class	T1...T4: $-40 < T_{amb} < 85^{\circ}\text{C}$ T1...T5: $-40 < T_{amb} < 74^{\circ}\text{C}$
Insulating material	PEEK		
Mechanical Data		Approval Ex ta IIIC T100 Da, ATEX II 1D	
Housing	Stainless steel	Supply range	12...30 VDC
Amb. temperature	-40...85°C	Temperature class	T100°C: $-40 < T_{amb} < 85^{\circ}\text{C}$
Process temperature	-40...115°C	Approval Ex NA II T5, ATEX II 3G	
Protection class	IP67 (IEC 529)	Supply range	12...30 VDC
Media pressure	max. 100 bar	Temperature class	T1...T5: $-40 < T_{amb} < 85^{\circ}\text{C}$
Vibrations	IEC 60068-2-6, GL test 2		
Installation	any position		
Electrical Connection		Output	
Cable	10 meter, 4 wire	Output (active)	Max. 20 mA, short-circuit and high-temperature protected
Plug M12	Plastic or Stainless steel 304	Output type	PNP or NPN
Other Electrical Data		Output polarity	NO and NC
Power supply	12...30 VDC, 35 mA max.	Active „High“	PNP (VDC -1.5V) \pm 0.5V; R_{load} 10 kOhm
Damping	0...10 sec.	Active „Low“	NPN (VDC -1.5V) \pm 0.5V; R_{load} 10 kOhm
Power-up time	< 2 sec.	Off leak current	\pm 100 μ A max.
Hysteresis	\pm 1 mm		
Repeatability	\pm 1 mm	Factory Settings	
Reaction time	0,1 sec. (100 ms)	Damping	0.1 sec.
Disposal of Product and Packing		Approvals/Conformities	
According to national laws		Approvals/ conformities	DNV Marine Approval EN 50155 Railway 3A, EHEDG, FDA, WHG (pending)
EMC Data and Packing			
Immunity	EN 61326		
Emission	EN 61326		
Internal inductivity	$L_i \leq 10\mu\text{H}$		
Internal capacity	$C_i \leq 43\text{ nF}$		
Barrier data	$U \leq 30\text{ VDC}$; $I < 0.1\text{ A}$; $P < 0.75\text{ W}$		

Scope of delivery

	Article Description	Part No.
SLUGGUARD®	SLUGGUARD® ATEX approved, SS, <u>without</u> LED, process connection: G ½" nipple, electrical connection via M12 plug connector, PNP output	600 040
	SLUGGUARD® ATEX approved, SS, <u>with</u> LED, process connection: G ½" nipple, electrical connection via M12 plug connector, PNP output	600 001
	Barrier with power supply LBFS	600 041
	Process Socket PM 20 G ½"	600 042
	Connection cable with M12 connector, 10 m	526 000

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