

FS-500 Series

Stainless Steel Horizontal Float Switches

Datasheet



Series FS-500 Stainless Steel Horizontal Float Switches are durable, versatile float switches with a wide range of usage and applications. Three fitting configurations and two temperature ranges, all carrying NSF 169 and CSA approvals, make the Series FS-500 an easy choice for OEM, water and wastewater, and chemical applications. With their compact size, all stainless steel wetted materials, and reversible switch orientation, FS-500 switches are go-anywhere, use-everywhere switches.

Features

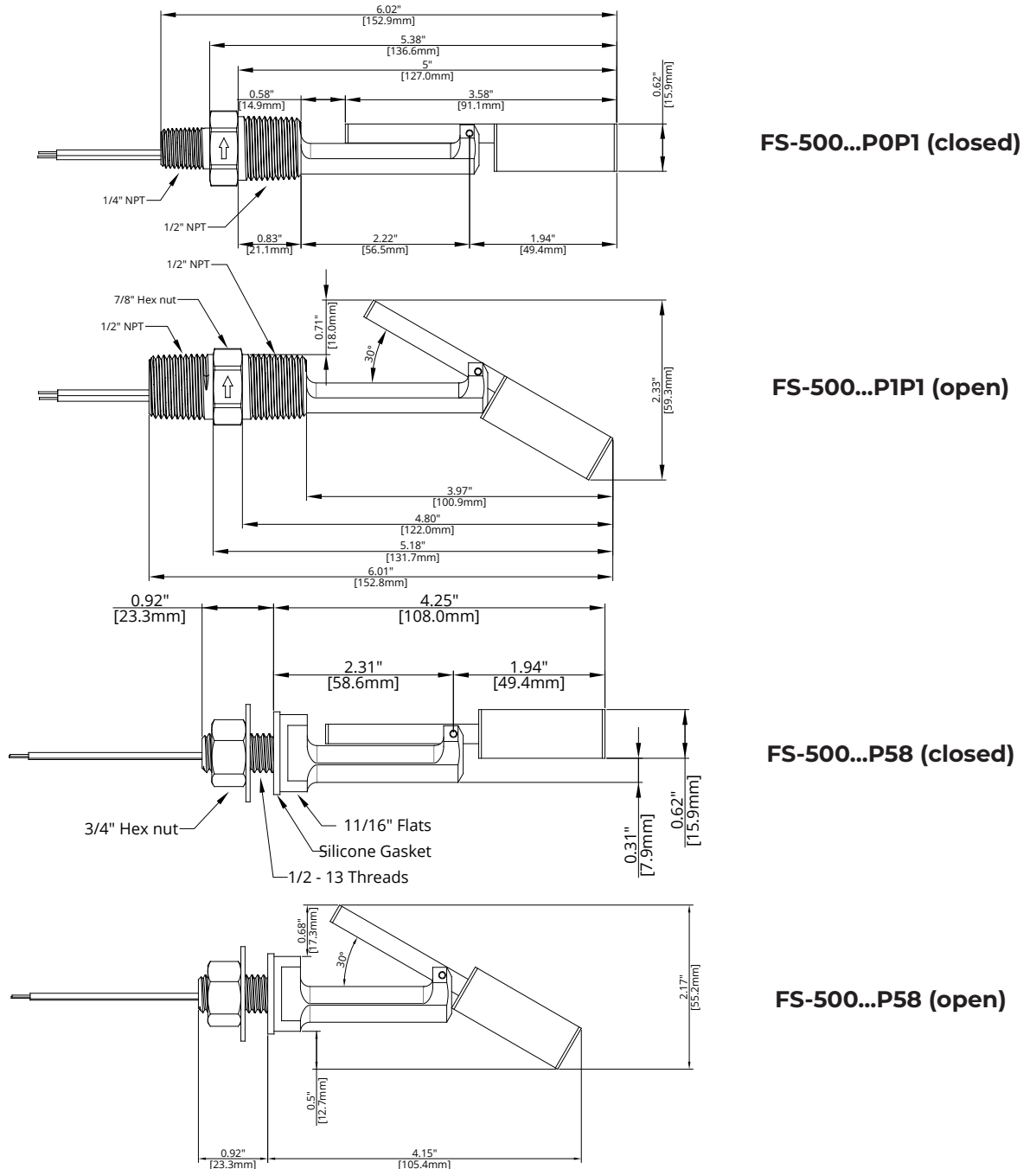
- Compact size
- Reliability/long switch life
- Shock resistant construction
- Can be used in a wide range of liquids
- Operating temperatures up to 500° F (260° C)
- Switch rated for 100 W
- NSF 169 certified
- CSA Explosion Proof (Standard Temp) and General Use (High Temp)

FS-500 SPECIFICATIONS

Series Model	FS-500			
	FS-500- S ...P1P1 FS-500- S ...P0P1	FS-500- HT ...P1P1 FS-500- HT ...P0P1	FS-500- S ...P58	FS-500- HT ...P58
Performance				
Pressure Rating	300 psi (20.7 bar)		100 psi (6.9 bar)	
Minimum S.G.	0.6			
Actuation Angle	10° ± 3°			
Hysteresis	8° ± 1°			
Environmental				
Operating Temp.	-40° to 368°F (-40° to 187°C)	-40° to 500°F (-40° to 260°C)	-40° to 368°F (-40° to 187°C)	-40° to 500°F (-40° to 260°C)
Liquids	Chemicals, Food, Potable Water			
Electrical				
Switch Rating				
Max Capacity	100 W (resistive load only)			
Max Current (AC, 50/60 Hz)	240 VAC: 0.416 A; 120 VAC: 0.833 A; ≤ 100 VAC: 1 A			
Max Current (DC)	120 VDC: 0.833 A; ≤ 100 VDC: 1 A			
Life Expectancy	10 ⁶ to 10 ⁸ (# of actuations; dependent on electrical load)			
Lead Wires	#22 AWG, PTFE 24 to 99 in. (610 to 2515 mm)			
Physical				
Material				
Stem	316L SS			
Float	316L SS			
Retainer	316L SS			
Mounting	Horizontal			
Certification				
CSA/cSAus Contract #237484	Explosion Proof	General Use		
	Class I, Div. 1 & 2, Groups A, B, C, & D, T3	—		
	Class II, Div. 1, Groups E, F, T200°C	—		
	Class II, Div. 2, Groups F, G, T200°C	—		
	Class III	—		
	Ta -40° C to 187° C	—		
	Single Seal	Single Seal		
NSF 169	Yes	Yes		
Enclosure Rating	NEMA 4X		—	

COMMON MODEL CONFIGURATIONS

Model Number	Model Description
FS-500-S-M1-M1-0.6-P1P1-24	Stainless Steel Stem and Float, Standard Temperature , 0.6 SG, 1/2"-1/2" NPTM, 24" Wires
FS-500-HT-M1-M1-0.6-P1P1-24	Stainless Steel Stem and Float, High Temperature , 0.6 SG, 1/2"-1/2" NPTM, 24" Wires
FS-500-S-M1-M1-0.6-P0P1-36	Stainless Steel Stem and Float, Standard Temperature , 0.6 SG, 1/4"-1/2" NPTM, 36" Wires
FS-500-HT-M1-M1-0.6-P0P1-36	Stainless Steel Stem and Float, High Temperature , 0.6 SG, 1/4"-1/2" NPTM, 36" Wires
FS-500-S-M1-M1-0.6-P58-48	Stainless Steel Stem and Float, Standard Temperature , 0.6 SG, Bulkhead, 48" Wires
FS-500-HT-M1-M1-0.6-P58-48	Stainless Steel Stem and Float, High Temperature , 0.6 SG, Bulkhead, 48" Wires



MODEL CONFIGURATION OPTIONS

Model Number: FS-500 - - M1 - M1 - 0.6 - -
 A **B** **C** **D** **E** **F**

A. Operating Temperature

- ☐ **S**▲ Standard Range (-40 to 187°C)
- ☐ **HT** High Temperature Range (-40 to 260°C)*

B. Stem Material

- ☐ **M1**▲ 316 Stainless Steel

C. Float Material

- ☐ **M1**▲ 316 Stainless Steel

D. Float Specific Gravity

- ☐ **0.6**▲ 0.6 Specific Gravity

E. Fitting Types (Outer - Inner)

- ☐ **P1P1**▲ 1/2" NPTM - 1/2" NPTM
- ☐ **P0P1** 1/4" NPTM - 1/2" NPTM
- ☐ **P58** Bulkhead*

F. Wire Length

- ☐ Wire Length in Inches (24 to 99)

Note: *Indicates this option is only available with CSA General Purpose ratings.

FS-500 REPLACEMENTS / ACCESSORIES

Please order separately, by part number.

Description	Part Number
316 SS 3/4" Hex nut for FS-500...P58; Quantity 5	200343
316 SS washer for FS-500...P58; Quantity 5	200344
NSF Silicone Gasket for FS-500...P58; Quantity 5	200345



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