



Series
F7-MM

Miniatur e Multi-Station Level Switch

Custom, Lightweight, Low Cost, 316 SS or Buna-N Floats

Level

FLOAT TYPE	A in.	B in.	D in.
F1	7/8	1-3/4	3/4
F2	3/4	1-7/8	1-1/16
F3	3/4	1-13/16	15/16
F4	13/16	2-7/16	1-7/16
F5	9/16	2-7/16	1-3/4
F6	15/16	1-7/8	7/8, NO
F7	13/16	2	1-3/16, NC
F8	3/4	1-7/8	1-1/8

Actuation Levels
Each switching point requires one float.
A = Minimum distance from actuation point to bottom of mounting.
B = Minimum distance between actuation levels.
D = Minimum distance from end of unit to lowest actuation point.

FLOAT DIMENSIONS

F1: 15/16 [23.80] height, Ø1.000 [25.40] diameter
 F2: 1-1/4 [31.75] height, Ø 29/32 [22.86] diameter
 F3: 1 [25.40] height, Ø 1-1/2 [38.10] diameter
 F4, F5: 1-19/32 [40.49] height, Ø 29/32 [22.61] diameter
 F6: 1-3/32 [27.79] height, Ø 29/32 [22.86] diameter
 F7: 1-7/32 [30.99] height, 1-1/32 [26.16] diameter
 F8: 1-1/8 [28.58] height, 1-9/64 [29.79] diameter

MOUNTING DIMENSIONS

Type 1: 1/8 NPT [.125] connection, 1/2 HEX [12.7] stem
 Type 2: 1-1/16 Hex [26.97] connection, 3/4 NPT connection
 Type 3: 1-5/16 Hex [33.32] connection, 1 NPT connection
 Type 4: 3/16 [4.78] stem, 1/8 NPT connection
 Type 5: 1-1/2 HEX [38.10] connection, 1-5/16-12 THREAD connection
 Type 6: 3/8-24 THREAD connection

6 HOLES Ø 5/16 [7.95] EQUALLY SPACED ON A 3.000 B.C. [76.20]

Miniature custom level switches with a sturdy, lightweight design are ideal for tanks less than four feet (1.2 m) deep. Control up to five different level points across a maximum length of 48" (121 cm). Stems and mounting fixtures are available in 316 SS or brass.

SPECIFICATIONS
Service: Compatible liquids.
Wetted Materials: Stem, connection, and float.
Temperature Limits: F1 and F2: Water, 180°F (82.2°C); Oil, -40 to 250°F (-40 to 121.1°C). All other floats: -40 to 300°F (-40 to 148.9°C).

Electrical Connection: 24" (61 cm) free leads #22 AWG, TFE jacketed.
Mounting Orientation: Vertical ±30°.

Models are built to your specifications

Example	F7-MM	B	1	5	F1	1		F7-MMB1-5F11-03.00-07.00-11.00-15.00-20.00-25.00																											
Construction	F7-MM							Multi-station level, 1 to 5 switch points																											
Stem & Connection Material		B S						Brass with Beryllium copper stops 316SS with SS ARMCO PH-15-7MO stops																											
Connection Type			1 2 3 4 5 6					1/8" NPT 3/4" NPT (Cannot be used with float F1, F3, F7 and F8) 1" NPT (Cannot be used with float F3) 3-5/8" Flange [Maximum pressure is 50 psi (3.45 bar)] 1-5/16-12UNF-2A (Cannot be used with float F3) 3/8-24																											
Switch Points				#				Put 1 to 5 for the number of switch points desired																											
Float Type					F1 F2 F3 F4 F5 F6 F7 F8			<table border="1"> <thead> <tr> <th>Material</th> <th>Min. s.g.</th> <th>Max. Pres. psi (bar)</th> </tr> </thead> <tbody> <tr> <td>Buna-N</td> <td>.45</td> <td>300 (20.68)</td> </tr> <tr> <td>Buna-N</td> <td>.60</td> <td>250 (17.24)</td> </tr> <tr> <td>316SS</td> <td>.70</td> <td>100 (6.89)</td> </tr> <tr> <td>316SS</td> <td>.85</td> <td>150 (10.34)</td> </tr> <tr> <td>316SS</td> <td>1.1</td> <td>400 (27.58)</td> </tr> <tr> <td>PTFE</td> <td>.65</td> <td>1000 (68.95)</td> </tr> <tr> <td>316SS</td> <td>.85</td> <td>275 (18.96)</td> </tr> <tr> <td>316SS</td> <td>.90</td> <td>600 (41.37)</td> </tr> </tbody> </table>	Material	Min. s.g.	Max. Pres. psi (bar)	Buna-N	.45	300 (20.68)	Buna-N	.60	250 (17.24)	316SS	.70	100 (6.89)	316SS	.85	150 (10.34)	316SS	1.1	400 (27.58)	PTFE	.65	1000 (68.95)	316SS	.85	275 (18.96)	316SS	.90	600 (41.37)
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Switch Type					1 2			SPST, .17A @ 120 VAC, .08A @ 240 VAC, .13A @ 120 VDC, .06A @ 240 VDC SPST, .8A @ 120 VAC, .4A @ 240 VAC (not UL) NO switch is standard. For NC place an "*" after the corresponding set point distance in the model number																											
Set Point Distance	L5 L4 L3 L2 L1					00.00 00.00 00.00 00.00 00.00		In inches referenced from bottom of connection Repeat for each switch point with dashes in between. No numbers needed beyond the number of switches specified. In inches for example 12.25 would be 12.25" from the bottom of the process connection.																											
Overall Length Options	L0						00.00	Maximum overall length of 48 inches (121 cm). Minimum length is L1 + D.																											