



Series
F7-MQ

Quick-Ship Multi-Station Level Switch

Fast Delivery, Customized, Up to Four Actuation Levels

A	B	D
1-1/2" (38.10 mm)	3" (76.20 mm)	2" (50.80 mm)

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: Ø 1-1/4 [31.75], 1-3/4 [44.45]
F2: 1-13/16 [46.02], Ø 1-7/8 [47.62], BUNA-N OPTION 2
F3: 2-3/32 [53.16], Ø 2-1/16 [52.37], 316 SST OPTION 3

MOUNTING DIMENSIONS

Type 1: 1/2 NPT
Type 2: 1/2 NPT, 1.000 SQ [25.40], 1-1/4 NPT
Type 3: 1/2 NPT, 1-1/4 SQ [31.75], 2 NPT

Level

Customize level switches to meet application requirements quickly and affordably. Switches can be configured with up to four different control points and stem lengths up to 72" (1.82 m). Stems and floats are available in 316 SS or brass.

SPECIFICATIONS
Service: Compatible liquids.
Temperature Limits: F1 and F2 with water: 0 to 180°F (-18 to 82°C); oil: -40 to 230°F (-40 to 110°C); F3: -40 to 300°F (-40 to 149°C).
Electrical Connections: 24" (61 cm) free leads; #22 AWG TFE and #18 AWG Polymeric.
Mounting Orientation: Vertical ±30°.

Models are built to your specifications

Example	F7-MQ	B	1	4	F3	3		J	F7-MQB1-4F33-07.00-11.00-15.00-20.00-24.00-J
Construction	F7-MQ								Multi-station level, 1 to 4 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						1/2" NPT (Float F2, F3 only) 1-1/4" NPT (Float F1 only) 2" NPT (Float F2, F3 only)
Switch Points				#					Put 1 to 4 for the number of switch points desired
Float Type					F1 F2 F3				Buna-N, min. s.g. 0.75, 150 psi (10.3 bar) max. pres. Buna-N, min. s.g. 0.55, 150 psi (10.3 bar) max. pres. 316SS, min. s.g. 0.75, 750 psi (51.7 bar) max. pres.
Switch Type						1 3			SPST, .17A @ 120 VAC, .08A @ 240 VAC, .13A @ 120 VDC, .06A @ 240 VDC SPDT, .17A @ 120 VAC, .08A @ 240 VAC, .13A @ 120 VDC, .06A @ 240 VDC NO switch is standard. For NC place an "*" after the corresponding set point distance in the model number.
Set Point Distance	L4 L3 L2 L1						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	LO							00.00	Minimum length is L1+D. Maximum length with Connection Length is 72" (1.82 m)
Options								J	Junction box for wire leads, NEMA 4 (Not available with Connection Type 1)