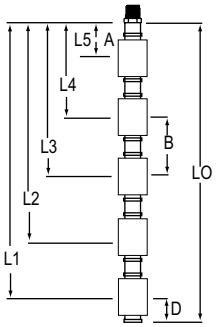
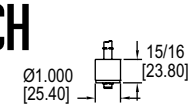
Dwyer

SERIES F7-MM

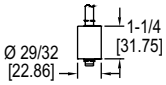
MINIATURE MULTI-STATION LEVEL SWITCH

Custom, Lightweight, Low Cost, 316 Stainless Steel or Buna-N Floats

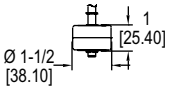




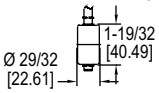
F1 float dimensions



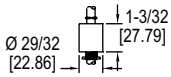
F2 float dimensions



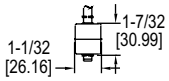
F3 float dimensions



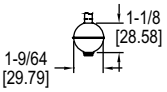
F4, F5 float dimensions



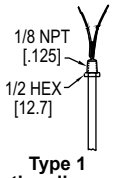
F6 float dimensions



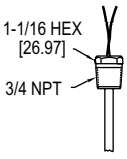
F7 float dimensions



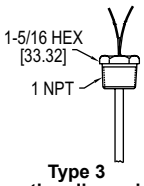
F8 float dimensions



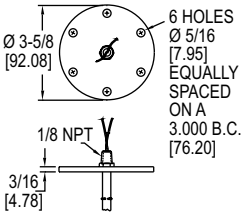
Type 1 mounting dimensions



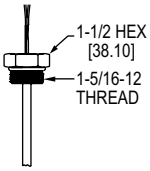
Type 2 mounting dimensions



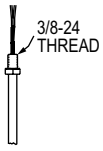
Type 3 mounting dimensions



Type 4 mounting dimensions



Type 5 mounting dimensions



Type 6 mounting dimensions

ACTUATION LEVELS			
Float Type	**A**	**B**	**D**
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); 1-3/16″ (NC)
F7	13/16″	2″	1-1/8″
F8	3/4″	1-7/8″	1-1/16″
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			

The **Series F7-MM Miniature Multi-Station Level Switch** provides a customized level switch to meet application requirements in a miniature size. 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.

BENEFITS/FEATURES
- Customized miniature level indication in a compact, lightweight design ideal for tanks less than 4′ (1.2 m) deep
- Rugged construction with multiple options yielding exceptional versatility
- Miniature custom level switches are sturdy, compact and lightweight yet still rugged and durable

APPLICATIONS
- Water level monitoring
- Oil level control
- Tank level control
- Diesel level monitoring

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°.

MODEL CHART

Example	F7-MM	B	1	-5	F1	1	-03.00	-07.00	-11.00	-15.00	-20.00	-25.00	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 and Connection Material		B S											Brass with beryllium copper stops 316 SS 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								**Material** / **Min. s.g.** / **Max. Pressure** Buna-N / 0.45 / 300 psi (20.68 bar) Buna-N / 0.60 / 250 psi (17.24 bar) 316 SS / 0.70 / 100 psi (6.89 bar) 316 SS / 0.85 / 150 psi (10.34 bar) 316 SS / 1.10 / 400 psi (27.58 bar) PTFE / 0.65 / 1000 psi (68.95 bar) 316 SS / 0.85 / 275 psi (18.96 bar) 316 SS / 0.90 / 600 psi (41.37 bar)
Switch Type*						1 2							SPST, .17 A @ 120 VAC, .08 A @ 240 VAC, .13 A @ 120 VDC, .06 A @ 240 VDC SPST, .8 A @ 120 VAC, .4 A @ 240 VAC
Set Point Distance, L5†							00.00						In inches referenced from bottom of process connection
Set Point Distance, L4†								00.00					In inches referenced from bottom of process connection
Set Point Distance, L3†									00.00				In inches referenced from bottom of process connection
Set Point Distance, L2†										00.00			In inches referenced from bottom of process connection
Set Point Distance, L1†											00.00		In inches referenced from bottom of process connection
Overall Length, L0												00.00	Min. length is L1+D; Max. overall length is 48″ (121 cm)

NO switch is standard. For NC place an "" after the corresponding set point distance in the model number.
†No numbers needed beyond the number of switches specified.

Note: Models are built to your specifications.

USA: California Proposition 65
WARNING: This product can expose you to chemicals including Lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.