

LEVEL SWITCHES - VERTICAL

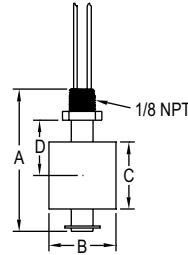
Low Cost, Reliable and Compact, Hermetically Sealed Contacts



F7-SB



F7-ST713



DIMENSIONS - IN (MM)

| Model | (A) Stem Length | (B) Float Diameter | (C) Float Height | (D) Actuation from Hex ^① |
|----------|-----------------|--------------------|------------------|-------------------------------------|
| F7-SB | 2.75 [70] | 1.38 [35] | 1.13 [29] | 1.2 [31] |
| F7-SS2 | 2.06 [52] | 1.0 [25] | 1.0 [25] | 0.73 [19] |
| F6-SS | 2.17 [55] | 1.11 [28] | 1.11 [28] | — |
| F7-MPP | 1.63 [41] | 0.63 [16] | 0.63 [16] | 0.47 [12] |
| F7-PP | 2.18 [55] | 1.18 [30] | 1.0 [25] | 0.69 [18] |
| F7-BT | 2.18 [55] | 1.18 [30] | 1.0 [25] | 0.69 [18] |
| F7-PVC | 3.44 [87] | 1.5 [38] | 1.81 [46] | 0.75 [19] |
| F7-T1 | 3.47 [88] | 2.13 [54] | 1.94 [49] | 0.92 [22] |
| F7-ST713 | 3.38 [86] | 2.06 [52] | 2.06 [52] | 1.09 [28] |
| F7-ST714 | 3.38 [86] | 2.06 [52] | 2.06 [52] | 1.09 [28] |

^①Distance between hex and liquid (S.G. = 1.0) level at actuation point will vary with specific gravity changes.

The **Series F6 & F7 Vertical Level Switches** are designed to be mounted at the maximum or minimum level point to provide level indication and control. Models are shipped with normally open switch contacts which close as the float rises toward the mounting threads.

BENEFITS/FEATURES

- Simple installation with low cost and reliable design
- Flexible application design with open or close circuits for rising or falling levels with vertical models that mount internally, oriented within 30° of vertical, or select optional fittings for external mounting
- Long product life from hermetically sealed reed switches that are actuated by magnets permanently bonded inside the float arm
- Switch ratings are suitable for many solid state control systems and monitors or alarms
- Variety of application use with high current, simple relay interfaces

APPLICATIONS

- Water level monitoring
- Oil level control
- Chemical level indication
- Sumps
- Stand pipes
- Tank level control
- High viscosity liquids

ACCESSORIES - FOR EXTERNAL MOUNTING OF VERTICAL MODELS

| Model | Description |
|----------|--|
| A-347 | 1/8" x 1-1/4" NPT carbon steel adaptor |
| A-347-SS | 1/8" x 1-1/4" NPT 316 SS adaptor |
| A-348 | 1/8" x 1-1/2" NPT carbon steel adaptor |

MODEL CHART

| Model | Applications | Material Float/Stem | Temperature Limits | Pressure Limits | Min. S.G. | Electrical Rating | Wire Leads | Mtg NPT (M) | Weight oz (g) |
|-------------|--------------------------------------|---------------------------------------|--------------------|---------------------|-----------|-------------------------|----------------------|-------------|---------------|
| F7-SB* | General purpose | Buna-N and epoxy/316 SS | 220°F (105°C) | 150 psig (10 bar) | 0.60 | 25 VA: 1 A @ 220 VAC | 22 AWG 18" (45 cm) | 1/8" | 2 (58) |
| F7-SS2* | High temp/pressure, corrosives | 316 SS (CYC)/316 SS | 300°F (149°C) | 450 psig (31 bar) | 0.75 | 25 VA: 1 A @ 200 VAC | 22 AWG 18" (45 cm) | 1/8" | 1.2 (34) |
| F6-SS | Corrosives | 316 SS/316 SS | 257°F (125°C) | 218 psig (15 bar) | 0.65 | 20 VA: 0.08 A @ 240 VAC | 20 AWG 11.8" (30 cm) | 1/8" | 1.59 (45) |
| F7-MPP** | Broad chemical compatibility | Polypropylene/polypropylene | 180°F (82°C) | 100 psig (6.89 bar) | 0.90 | 10 VA: 0.1 A @ 100 VAC | 22 AWG 24" (61 cm) | 1/8" | 0.8 (23) |
| F7-MPP-NO** | Broad chemical compatibility | Polypropylene/polypropylene | 176°F (80°C) | 100 psig (6.89 bar) | 0.90 | 50 VA: 0.2 A @ 240 VAC | 22 AWG 24" (61 cm) | 1/8" | 0.8 (23) |
| F7-PP* | Broad chemical compatibility | Polypropylene and epoxy/polypropylene | 220°F (105°C) | 100 psig (6.89 bar) | 0.60 | 30 VA: 0.14 A @ 220 VAC | 22 AWG 24" (61 cm) | 1/8" | 0.8 (23) |
| F7-BT* | Oils and fuels | Buna-N and epoxy/PBT*** | 220°F (105°C) | 150 psig (10 bar) | 0.45 | 30 VA: 0.14 A @ 220 VAC | 22 AWG 24" (61 cm) | 1/8" | 0.7 (20) |
| F7-PVC | Chemical and plating | CPVC/CPVC | 180°F (82°C) | 15 psig (1 bar) | 0.85 | 20 VA: 0.08 A @ 240 VAC | 22 AWG 24" (61 cm) | 1/4" | 5 (140) |
| F7-T1 | Viscous, sticky or corrosive liquids | PTFE/TFE | 300°F (149°C) | 30 psig (2 bar) | 0.80 | 20 VA: 0.08 A @ 240 VAC | 22 AWG 24" (61 cm) | 1/4" | 6 (170) |
| F7-ST713 | Oils, water and chemicals | 316 SS/316 SS | 300°F (149°C) | 750 psig (52 bar) | 0.80 | 20 VA: 0.08 A @ 240 VAC | 22 AWG 24" (61 cm) | 1/4" | 6 (170) |

*UL listed. **F7-MPP is normally closed/F7-MPP-NO is normally open. ***PBT-Polybutylene terephthalate.

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.