



SERIES F6 & F7 | W.E. ANDERSON™ BY DWYER



LEVEL

LEVEL SWITCHES - VERTICAL

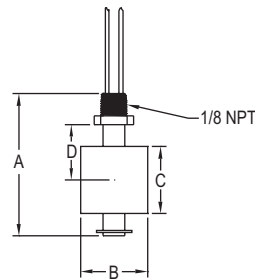
Low Cost, Reliable and Compact, Hermetically Sealed Contacts



F7-SB



F7-ST713



| DIMENSIONS in Inches (mm) | | | | |
|---------------------------|-----------------|--------------------|------------------|-------------------------------------|
| Model | (A) Stem Length | (B) Float Diameter | (C) Float Height | (D) Actuation from Hex [Ⓢ] |
| 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-K | 2.13 (54) | 1.0 (25) | 1.0 (25) | 0.65 (17) |
| F7-C11 | 2.06 (52) | 1.0 (25) | 1.0 (25) | 0.56 (14) |
| F7-C21 | 2.06 (24) | 1.0 (25) | 1.0 (25) | 0.56 (14) |
| 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) |

[Ⓢ]Distance 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.

FEATURES/BENEFITS

- Combine low cost and reliability with fast, simple installation
- Hermetically sealed reed switches are actuated by magnets permanently bonded inside the float and can be easily adapted to open or close a circuit on rising or falling levels
- Easily reverse switch action by removing the float, rotating it end-for-end and replacing it on the stem
- Vertical models mount internally, oriented within 30° of vertical, or select optional fittings for external mounting
- Switch ratings are suitable for many solid state control systems and monitors or alarms
- Simple relay interfaces can be used for higher current applications

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

Level Switches, Float

| MODEL CHART | | | | | | | | | |
|-------------|---|--|------------------|----------------------|-----------|----------------------------|----------------------|-------------|---------------|
| Model | Applications | Material Float/Stem | Temp. Limits | Pressure Limits | Min. S.G. | Electrical Rating | Wire Leads | Mtg NPT (M) | Weight oz (g) |
| F7-SB* | General purpose | Buna-N & 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 & 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 & fuels | Buna-N & 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-K* | Food/beverage, corrosives | PVDF/ PVDF | 180°F (82°C) | 100 psig 6.89 bar | 1.00 | 50 VA: 0.25 A @ 150 VAC | 22 AWG 24" (61 cm) | 1/8" | 1.5 (43) |
| F7-C11 | General purpose | Buna-N/ brass | 180°F (82°C) | 150 psig 10 bar | 0.45 | 20 VA: 0.08 A @ 240 VAC | 22 AWG 24" (61 cm) | 1/8" | 1.5 (43) |
| F7-C21* | Oils & water, general purpose | Buna-N/ 316 SS | 180°F (82°C) | 150 psig 10 bar | 0.45 | 20 VA: 0.08 A @ 240 VAC | 22 AWG 24" (61 cm) | 1/8" | 1.5 (43) |
| F7-PVC | Chemical & 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 & 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: Cancer and Reproductive Harm - www.P65Warnings.ca.gov



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