



**11D18-1**

**WELL IMMERSION SINGLE CONTROL**

Types for use as High Limit, Reverse Action or SPDT Switching Action: May Be Mounted Either Horizontal or Vertical.

**FEATURES**

- Extra capillary length for extended shank wells.
- Special screw terminals with “ears” securely hold solid and stranded wires.
- Screwdriver-adjustable differential with direct-read indicator.
- Knockouts on top and bottom and plenty of wiring room.
- Hydraulic action element — fast acting.

**SPECIFICATIONS**

Dimensions . . . . . 5<sup>3</sup>/<sub>8</sub>” H + 2<sup>5</sup>/<sub>16</sub>” coil x 2<sup>9</sup>/<sub>16</sub>” D  
 Finish . . . . . Grey  
 Agency . . . . . U.L. listed

**PARTS AND ACCESSORIES** See end of this section for additional parts and accessories

- F145-0163 — Tube heat conductive compound
- F145-0650 — Well adapter and heat conductive compound
- F71-0924 — Well adapter only
- Immersion wells — see page 147

**TYPES WITH BULBS DIRECTLY INTERCHANGEABLE WITH HONEYWELL** (3<sup>9</sup>/<sub>16</sub>” x 3<sup>7</sup>/<sub>8</sub>”) No wells included.

Model Number	Range	Differential	Switch Action	Full Electrical Rating	Motor Rating (Full Load)		Valves and Relays	
					120 VAC	240 VAC	24 VAC	0.3-12v DC
11D18-1 ①	100 to 240°F (38 to 116°C)	5 to 45°F (3 to 25°C)	Open on Rise	HTV See page 416	10.0A	6.0A	6.0A	1.0A
11D31-1	100 to 240°F (38 to 116°C)	7 to 45°F (4 to 25°C)	SPDT	HH See page 416	7.4A	3.7A	2.9A	—

① Has U.L. approved adjustable dial stop, factory set at 150°F maximum.

**TYPES WITH TAPERED BULBS** (2<sup>7</sup>/<sub>16</sub>” x 7<sup>1</sup>/<sub>16</sub>”) All types include 1/2” standard shank well, unless otherwise specified.

Model Number	Range	Differential	Switch Action	Full Electrical Rating	Motor Rating (Full Load)		Valves and Relays	
					120 VAC	240 VAC	24 VAC	0.3-12v DC
1131-102 ①	100 to 240°F (38 to 116°C)	7 to 45°F (4 to 25°C)	SPDT	HH See page 416	7.4A	3.7A	2.9A	—
11B05-101	100 to 240°F (38 to 116°C)	5 to 45°F (3 to 25°C)	Close on Rise	HT See page 416	14.0A	7.0A	—	—
11B18-101 ①	100 to 240°F (38 to 116°C)	5 to 45°F (3 to 25°C)	Open on Rise	HTV See page 416	10.0A	6.0A	6.0A	1.0A
11B18-153 ②	35 to 110°F (2 to 43°C)	Fixed 2°F (1°C)	Open on Rise	HTV See page 416	10.0A	6.0A	6.0A	1.0A
11B27-9 ③	100 to 500°F (40 to 260°C)	Manual Reset	Open on Rise	FG See page 416	14.0A	7.0A	5.6A	—
11B27-10 ③	250 to 650°F (121 to 343°C)	Manual Reset	Open on Rise	FG See page 416	14.0A	7.0A	5.6A	—
11B30-104 ④	100 to 240°F (38 to 116°C)	8 to 45°F (4.5 to 25°C)	Open on Rise	HTV See page 416	10.0A	6.0A	6.0A	1.0A

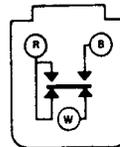
① Has U.L. approved adjustable dial stop, factory set at 150°F maximum.

② Has special straight well for 4” x 7<sup>1</sup>/<sub>16</sub>” straight bulb.

③ Has 7’ capillary and 3” x 5<sup>1</sup>/<sub>16</sub>” straight bulb.

④ 3/4” standard shank well.

✻ Indicates Canadian Model Number: call 1-800-305-6953 to order



**SPDT Contact Structure**

HH Rated Controls

**Switch Action**

R-B Open on Rise

R-W Close on Rise

**CONTRACTOR TIP: TESTING AUTOMATIC TEMPERATURE CONTROLS** To verify a control is opening and closing properly, disconnect all power before testing. Testing must be performed with the sensing element at a temperature within the setting range of the control. For most hydronic controls with a range of 100 to 240°F, a pan of hot water is sufficient to reach the control range.

Attach an ohmmeter or continuity tester across the Open on Rise contacts. Lower the temperature setting dial to the lowest setting. If the lowest setting is below the temperature of the sensing element minus the differential of the control, the contacts should be open. Raise the temperature dial slowly. When the setting is raised above the temperature of the sensor, the contacts should close.