

**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 and C.S.A. approved

### PARTS AND ACCESSORIES

See end of this section for additional parts and accessories

- F145-0163 — Tube heat conductive compound
- Immersion wells — see page 108

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

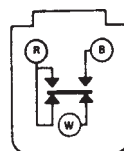
Model Number	Range	Differential	Switch Action	Full Electrical Rating	Motor Rating (Full Load)		Valves and Relays	
					120 VAC	240 VAC	24 VAC	0.3-12v DC
11D18-1 ①	100 to 240°F (38 to 116°C)	5 to 45°F (3 to 25°C)	Open on Rise	HTV See page 222	10.0A	6.0A	6.0A	1.0A
11D31-1	100 to 240°F (38 to 116°C)	7 to 45°F (4 to 25°C)	SPDT	HH See page 222	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 222	7.4A	3.7A	2.9A	—
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 222	10.0A	6.0A	6.0A	1.0A

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



### 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.

HYDRONIC / APPLIANCE