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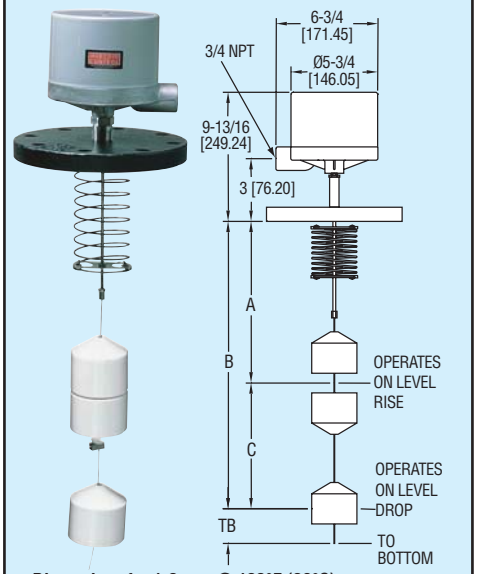
Mercoid®

Series B-190

Liquid Level Switches-Controls

Top Mounted Displacer Type, Adjustable Setpoints, Magnetic Operation, Optional Hermetically Sealed Snap Switch



Dimensions for 1.0 s.g. @ 100°F (38°C)

A		C		TB	B
Max.	Min.	Max.	Min.	Min.	Max.
116½" (2.66m)	6½" (165m)	114" (2.9m)	6¾" (172mm)	2½" (64mm)	122¼" (3.1m)

One of our most versatile level controls, the model B-l90 can be used on all types of tank or sump level control applications. Three porcelain displacers provide deadband adjustment. Unit can start a sump pump (for example) when liquid reaches the high set point and turn the pump off when the level drops to the low set point. Unit works equally well in pressurized tanks. Two stage units also available.

SPECIFICATIONS

Service: Compatible liquids.
Wetted Materials: Cable, Spring and Stops: 316 SS. Optional Inconel spring. Displacers: Porcelain. Optional 304 SS, 316 SS, or karbate (graphite).
Temperature Limits: 32 to 200°F (0 to 93.3°C). Higher ratings available.
Pressure Limit: 125 psig (8.6 bar). Higher ratings available.
Enclosure Rating: NEMA 4X. Optional general purpose or explosion-proof.
Switch Type: SPDT snap switch, hermetically sealed snap switch, or mercury switch. Optional DPDT or two stage.
Electrical Rating: Snap Switch: 12A @ 120 VAC, 5A @ 240 VAC, 0.5A @ 125 VDC resistive, 0.25A @ 250 VDC resistive. Hermetically Sealed Snap Switch: 5A @ 120 VAC, 5A @ 240 VAC, 5A @ 30 VDC resistive. Mercury Switch: 4A @ 120 VAC/DC, 2A @ 240 VAC/DC. Higher contact ratings available for the Mercury switch.
Electrical Connections: Screw terminal.
Conduit Connection: 3/4″ female NPT.
Process Connections: 4″ 125 Cast Iron Flange. Other material, size, and rating flanges are available.
Mounting Orientation: Vertical.
Set Point Adjustment: Adjustable by moving displacers see dimension chart for minimum and maximum values.
Weight: 25 lb (11.34 kg).
Agency Approvals: UL and CSA.
Deadband: Adjustable by moving displacers see dimension chart for minimum and maximum values.
Specific Gravity: Standard is 1.0. Specify when ordering by replacing 1.0 in model number with specific gravity setting desired. Settable range is 0.5 to 1.2.
Cable Length: 10 ft (3 m) standard. Optional up to 100 ft (30.5 m).

MODELS

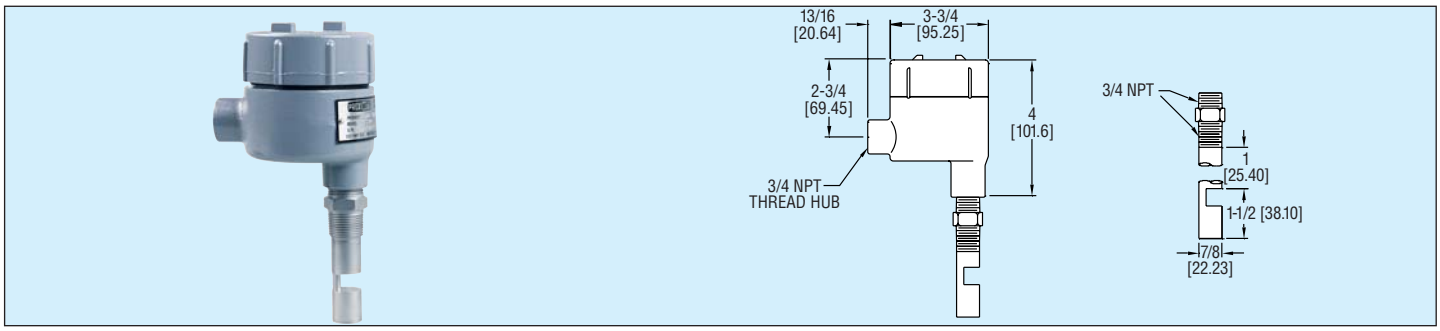
Model Number	Switch Type
B190-WT-4810-P-A-1.0-2	SPDT Mercury
B190-WT-7810-P-A-1.0-2	SPDT Snap
B190-WT-7810HM-P-A-1.0-2	SPDT Hermetically Sealed Snap

PROXIMITY®

Series GS

Gap Switch

Liquid Level Measurement, 1000:1 Wet/Dry Ratio, 316 SS Wetted Parts



Series GS Gap Switch measures liquid levels at a single point and provides a 10A relay output for high or low level alarm, overflow prevention, and pump protection. The Series GS uses ultrasonic wave propagation between the transducer gap to sense the presence or absence of a liquid. Integral electronics make installation quick and easy. Units can be mounted in either a vertical or horizontal position with no additional calibration required. Gap switch includes a 0.5 second delay and high level failsafe.

MODELS

Model Number	Immersion Depth	Supply Voltage
GS10001	1″ (25.4 mm)	115 VAC
GS20001	1″ (25.4 mm)	230 VAC

SPECIFICATIONS

Service: Compatible liquids (1000:1 wet/dry ratio).
Wetted Material: 316 SS.
Temperature Limits: Sensor: –40 to 200°F (–40 to 93°C), Electronics: –20 to 170°F (–4 to 77°C).
Pressure Limits: 1000 psig (68.9 bar).
Enclosure Rating: Epoxy-coated cast aluminum, NEMA 4 & 7.
Repeatability: 2 mm (0.078″) typical.
Switch Type: DPDT.
Electrical Rating: 10A @ 120 VAC resistive.
Power Requirements: 115 VAC, 50/60 Hz (230 VAC optional).
Conduit Connection: 3/4″ female NPT.
Process Connection: 3/4″ male NPT.
Mounting Orientation: Vertical or horizontal.
Delay [On]: 0.5 seconds.
Immersion Depth: 1″ (25.4 mm).
Weight: 1 lb (453 g).
Agency Approval: CE.

APPLICATIONS

Monitor and control levels of water, chemicals, lubricants, acids, creams, lotions, beverages or paints in vessels, storage bins, tanks, sumps, etc.

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