

EP-113C DIFFERENTIAL PRESSURE CONTROLS

■ Application

The EP-113C Differential Pressure Switch can be used to monitor the flow of liquids across Pumps, Boilers, Chillers, and Valves etc.

Typically the switch would sense the difference in pressure between the systems liquid supply and the system return pipe.

■ Features

The EP-113C combines two pressure sensitive components working together to sense changes in pressure on either side. Any change in pressure higher or lower than the set points will cause the SPDT switch to change position turning any connected ancillary products (Motors, Pumps, and Valves etc.) On or Off.

■ Technical Data

Pressure Range	0.5 to 4 bar
Working Differential Pressure	0.14 bar
Maximum Pressure	17 bar
Ambient Temperature Range	-20 to +65°C
Media Temperature Range	-20 to +120°C
Switch Contact Capacity	SPDT 50/60Hz 230 VAC 6A
IP Rating	IP40
Pressure Connections	1/4" BSP Female
Suitable for use with	Water, Air, Oil, Glycol (Ethylene & Polypropylene) R314a, R22, R407C, R404A/R507

■ Installation

The EP-113C should be installed on a flat surface, in any orientation, using the four M4 mounting tap holes or mount support (attachment) to secure.

Care should be taken to ensure the High and Low pressure lines are connected to the correct connections on the switch.

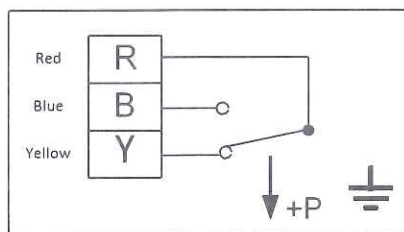
■ Setting

To adjust the set pressures, turn the Slotted Plate under the Low Pressure Connection, by inserting a screwdriver blade in the slots and turning. The differential pressure is increased when the Slotted Plate is turned to the Left and decreased when turned to the Right. The Slotted Plate should be adjusted, by turning, until the required pressure is shown on the Indicator Scale Plate.

Once the required pressure has been set using the Indicator Scale Plate, the switch should be tested and any final adjustments made to achieve the required differential pressure.

PLEASE NOTE: The pressure on the High Pressure Connection MUST be higher than the pressure on the Low Pressure Connection, otherwise the switch will not function.

■ Wiring



On pressure rise to scale setting
(range) contacts R-Y close
Pressure fall (diff) contacts R-B close



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