

**PRESSURE SWITCHES  
PRESSURE DIFFERENCE SWITCHES  
VACUUM SWITCHES**  
From 1.5 mbar to 600 bar

## HM Pressure Switches

### INSTALLATION AND OPERATING INSTRUCTIONS



Certificate No.: FM 72815

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## CONSTRUCTION :

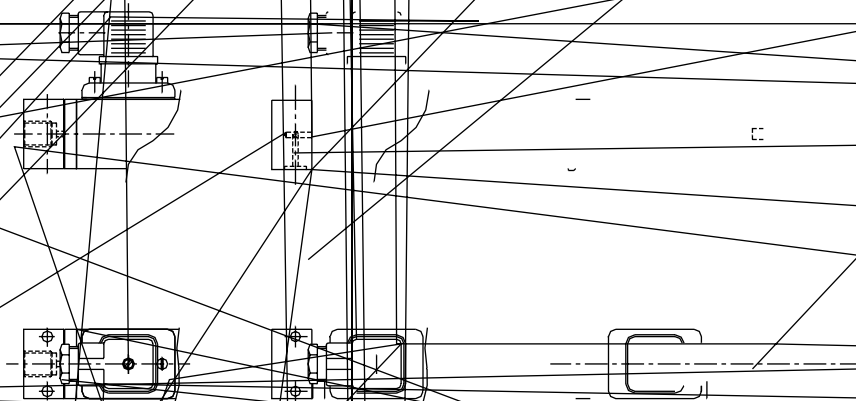
The pressure switch is housed in a die cast aluminium enclosure which conforms to IP65 protection. The pressure capsule of the switch, comprises housing (either of aluminium, brass or MS), a seal, and a piston (EN8 or SS). The electrical changeover is through a snapaction microswitch. The electrical wiring terminates at a terminal strip to DIN 43650.

## PRINCIPLE OF OPERATION :

The pressure in the pressure capsule is converted into force by means of a calibrated piston, which is balanced by a compression spring from above. When the force generated by the pressure in the pressure capsule exceeds/falls beyond the balancing spring force, an electrical element is actuated.

## MOUNTING :

FIGURE 1



Please refer above Figure. HM model pressure switches can be mounted in any direction. There are three different mounting options.

### a) LINE MOUNTING :

1/4" BSP threads are provided for these switches, the switch can be mounted using two M5 bolts of appropriate length. They can also be mounted on the manifold by means of an adaptor for hydraulic applications. For process applications, pressure switches can also be supplied with a chemical seal.

### b) SUBPLATE MOUNTING :

The switch can be mounted directly on a manifold by using this arrangement. Use M5 bolts of appropriate length through the mounting holes.

### c) VERTICAL STACKING :

This arrangement is provided for using pressure switches in a stack. The switch can be mounted as a vertical element using the proper size sandwich plates.



2

the switch electrically.

M 3 : LEAK