



TEDDINGTON APPLIANCE CONTROLS

38000 Series Fitting Advice.

2007

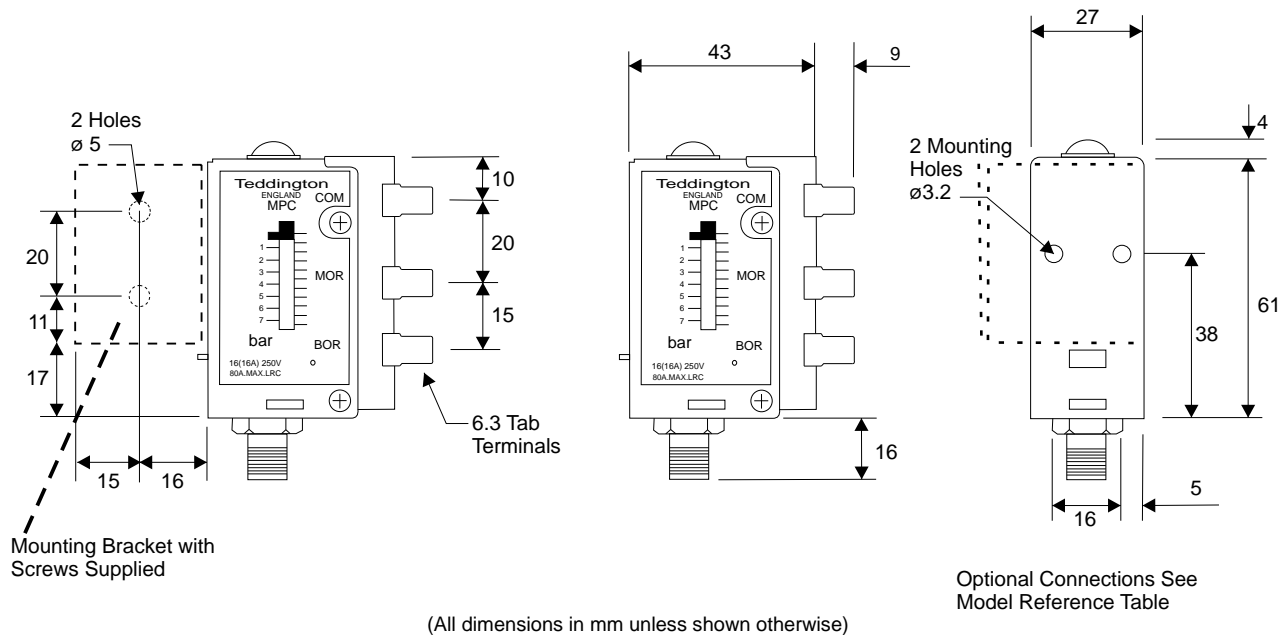
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TEDDINGTON APPLIANCE CONTROLS LTD.

The Teddington Appliance Controls 38000 Series Fitting Advice.

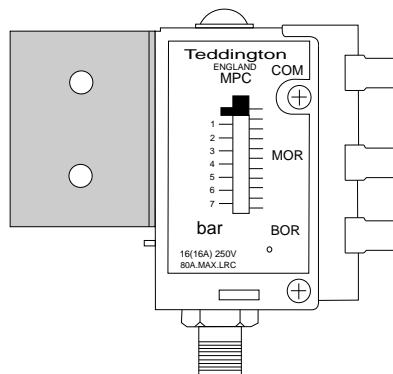
The Teddington 38000 pressure switches are used for a wide range of applications where accurate control of pressure limits is necessary, including refrigeration, pressurised central heating, compressed gases, beverage dispensers, etc.

Most 38000 instruments do not incorporate an internal pressure surge restrictor orifice. If this feature is required, please ensure that the switch you are ordering is the correct model.



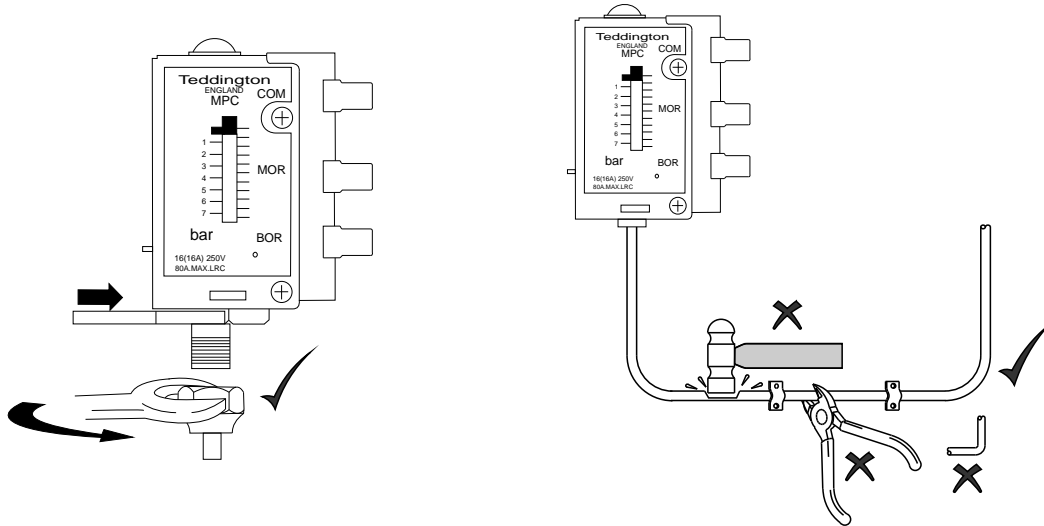
Installation.

The control may be mounted in a position which is reasonably free from vibration. Brackets are supplied to mount the 38000 to accessible surfaces and these can be screwed to the side of the 38000 case using two M4 fixing holes on 16mm horizontal centres.



When attaching pressure connections to the 38000, always support the connector on the instrument with one spanner while tightening the connector with the other.

On the 38002 model, with $\frac{3}{32}$ " diameter connecting tubing, run the pipe connection to the system and attach with the $\frac{1}{4}$ " flare nut. Avoid sharp bends near the end connectors and support the tube to avoid vibration.



Wiring.

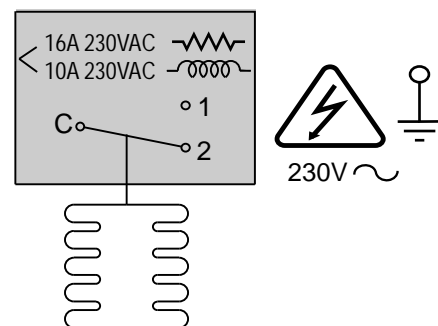
To conform to British Standards this control should be used with fixed cables.

Terminals are marked as follows;

C is Common.

1 is used to make on rise of pressure (break on fall).

2 is used to break on rise of pressure.



When used with some pressurised central heating installations, 38000's can be used to ensure that the boiler cannot be switched on if the system pressure is too low using terminals C common and 1 make on rise. The 38000 can also be used to monitor means of pressurising the system using terminals 1 common and 2 break on rise.

Setting.

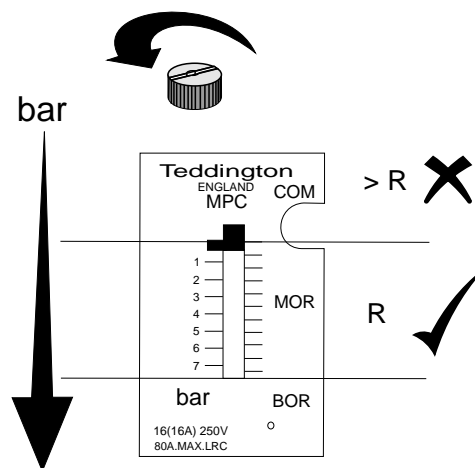
NOTE: Check that the pressure range of the control is suitable for the application required.

Range settings can be adjusted from the top of the instrument case using the screw, viewed from the front. Differential settings are fixed and cannot be changed. Settings are indicated on the appropriate scales seen on the front of the switch.

The adjustable range indicator shows the nominal pressure at which the switch will operate on rising pressure.

The fixed Differential indicator is 0.4bar (6psi) and is the nominal difference between the switch operating points on rising and falling pressures.

To adjust the setting of the range, turn the knob clockwise to lower the range setting and anticlockwise to raise the range setting.



The Differential value subtracted from the range setting will give you the lower opening pressure.

i.e. the switch will change over from terminal 2 to terminal 1 when the system pressure reaches the range set point. The switch will not change back until the pressure has fallen to the range value less the differential value, e.g. If the range setting is 2.5bar and the fixed differential is 0.4bar, the switch will change over when the pressure has risen to 2.5bar and will not change back until the pressure has fallen below 2.0bar.

38000 Models

Model	Range	Nominal Diff	Restrictor	1/4" BSP	Solder
38001	10 – 100psi (0 – 7bar)	6psi (0.4bar)	X	X	
38002					X
38003				X	



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