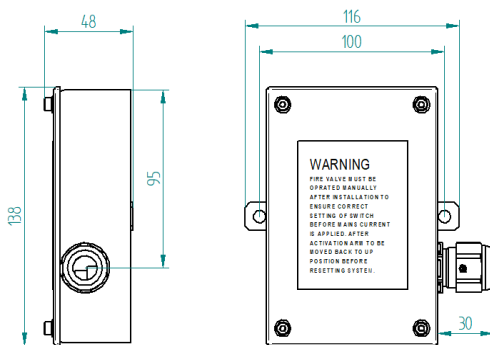


FREE-FALL VALVE TILT SWITCH 10900414- MKIII

Landon Kingsway tilt switches are designed to be used in conjunction with our Free-Fall Valves / drop weight valves, they provide indication of valve position. Typically, they are used on generator feed lines, the valve will isolate the fuel in the event of a fire occurring, when the room reaches a certain temperature, it will melt the fusible link connected to the valve and isolate the fuel. The tilt switch can be mounted to the valve arm to notify the generator to shut down in the event of a fire.

The unit is fitted with 2 pre-wired switches, these provide normally closed and normally open volt free contacts, they are capable of switching **AC or DC** voltages.

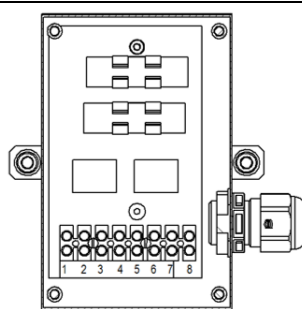
Dimensions



Enclosure can be rotated 180° if required

INSTALLATION

The tilt switch enclosure should be securely fitted onto the valve lever using the supplied fixings. Care should be taken to ensure that the enclosure does not interfere with the motion of the valve lever. The electrical connections should be made through a cable gland or flexible conduit. **A 24vDC supply should be connected to terminals 7&8.** Remember to leave enough slack in the cable for the valve lever movement. Electrical installation should only be performed by competent persons in accordance with the connection diagram



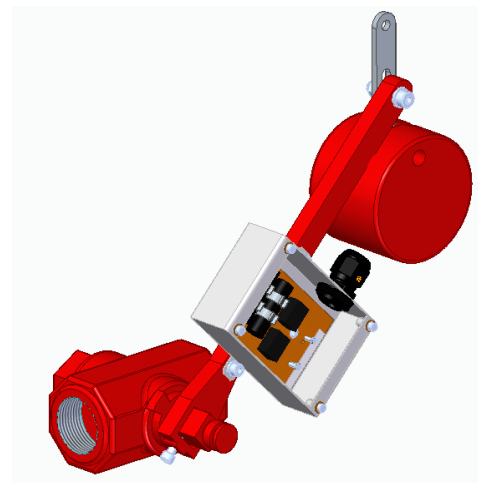
Terminal Wiring

- 1 & 2 = Volt Free Switch Contact
(configured as Normally Open when Fire Valve in Set Position)
- 3 & 4 = Volt Free Switch
(configured as closed contact when Fire Valve in Set Position)
- 5 & 6 = Volt Free Switch
(configured as closed contact when Fire Valve in Set Position)
- 7 = 24vDC Supply Voltage - (Negative)
- 8 = 24vDC Supply Voltage + (Positive)

Technical Specification

Enclosure	Weatherproof grey epoxy coated steel plate. IP65
Dimensions	139 x 177 x 48mm
Fixing Centres	102mm
Electrical Entry	20mm conduit gland for cable diameter 7mm to 13mm
Supply Voltage	24vDC
Supply Load	11.7mA
Volt Free Contacts Terminal	(1&2) / (3&4) / (5&6)
Contact resistive load	8 Amps
Load Voltage (AC)	250vAC
Load Voltage (DC)	30vDC
Operating Temperature	-25°C to +70°C
Weight	0.6kg
Relay	UL Recognised, CSA and TUV Certified,
Vibration resistance (Destruction)	10 to 55 to 10 Hz, 0.75 mm single amplitude (1.5 mm double amplitude)
Malfunction	10 to 55 to 10 Hz, 0.75 mm single amplitude (1.5 mm double amplitude)
Shock resistance Destruction	1,000 m/s ² Malfunction 100 m/s

Tilt switch attached to valve (Cover removed)



TEST

The fire valve should be operated manually with supply voltage before electrical power is applied through terminals 1,2,3,4,5 & 6 to the tilt switch, this will ensure that the electrical connections are correct.

If you have any questions or need any help then please contact our sales office.

ROHS Compliant (Mercury Free)