

HTM

FR FLOATLESS RELAY

INTRODUCTION

HTM FR Floatless relays are versatile and compact floatless relays that are suitable for pumping system control and level alarm annunciations. Standard units are housed in DIN enclosures and can be configured as controller for water supply or drainage control system. HTM FR Floatless relays utilise a safe control voltage for level sensing via level electrodes located in the field.

PRINCIPLE OF OPERATION

HTM FR floatless relays are level controllers that detect water levels based on the conductivity of the medium measured by using conductive electrodes. When a relay senses the liquid level measured, the output contacts of the relay are energized and latched. These latched outputs are released when the latching electrode is brought out of the medium measured. The operation repeats as the medium's level changes to achieve a continuous level control system.

FEATURES

Built-in lightning surge arrester

HTM FR floatless relays are floatless relays truly designed for tropical environment where lightning surge is a major destructive factor in instrumentation. Each FR floatless relay has a built in 2 stage lightning surge arrester which protect the controller in the event of lightning surge. This effectively reduced the down time of the relay.

Battery operation

FR floatless relays can be powered by 115, 230VAC, 12, 24, 48VDC and hence can be operated in solar powered and battery operated system without the use of any power converter.



Indication

Two state LED indicators for the indication of High (red/activated) and Low (green/deactivated)

Adjustable sensitivity

The sensitivity level of all HTM FR floatless relays are adjustable to suit different working conditions

SPECIFICATIONS

Sensing voltage: 10VDC

Output: 1SPDT & 1SPST

Contact rating: 1A @230VAC

Power supply:

VDC: 12, 24, 48

VAC: 110, 115, 220, 230

Casing: ABS shell

Polycarbonate Cover

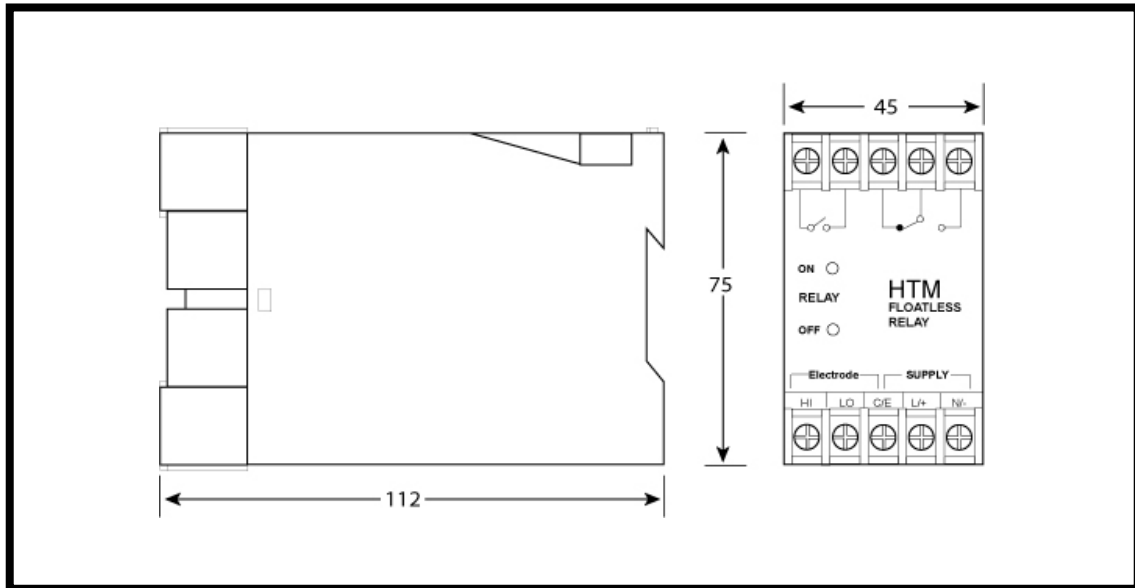
Enclosure: IP10

Terminal size: 2.5mm² cable

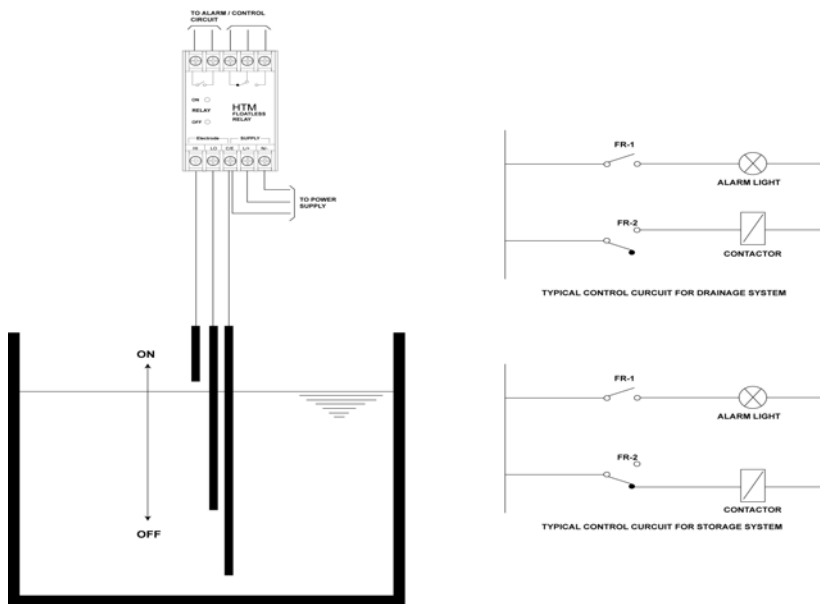
Temperature: -10 to 60°C

Mounting: DIN rail or panel mount

DIMENSIONS



TYPICAL WIRING DIAGRAM



Notes : Do not connect Lo Electrode if Latching of Low level is not required
All Dimensions in MM

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Manufactured by :

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