

Floscan Type 'PR' Infra-red Flow Alarm

PRINCIPLE:

The Floscan Type 'PR' is a photo-electric switch which can be fitted to a wide range of Gapmeters to give an on/off electric signal at a selected flowrate.

Gapmeters are variable-area flowmeters with standardised read-out, comprising an indicator float in a glass or plastic tube unit or, for the more arduous applications, an all-metal unit with non-contact magnetically coupled indicator.

The Detector Head incorporates an infra-red emitting diode and a photo-diode sensor which allows adjustment over the entire flowscale without impeding the reading. The signal from the Detector is conditioned in the Control Unit which houses the drive/demodulator circuitry, power supply and output relay. This allows for the operation of suitable switching alarm systems such as bells, lamps, motors or contactors. If high and low flow alarm is required, two Detectors can often be fitted to the Gapmeter.



STANDARD SPECIFICATION:

ALARM TYPE: Photo-electric.

ALARM SETTING: 0 - 100% of Gapmeter range.

SUPPLY VOLTAGE: 220/250 V., or 110/120 V. AC,
50-60 Hz

CONTACT RATING: AC 250 V., 8 A
(Double Changeover Relay) DC 250 V., 1A
(Non-inductive load)

TEMPERATURE RANGE: -5°C to +55°C

RELAY OPERATION: Non-Latching or latching can be selected

CONTROL UNIT HOUSING: Polycarbonate with 20mm conduit entries, weatherproofed to IP55

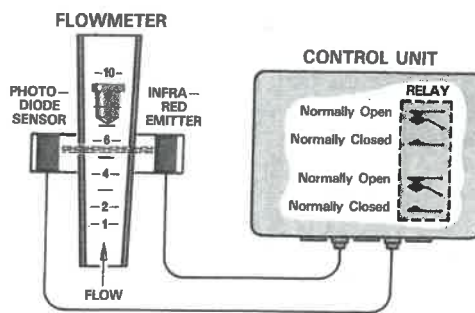
FLOW SETTINGS: See individual Gapmeter leaflets for Flow Ranges.

SPECIAL MODELS

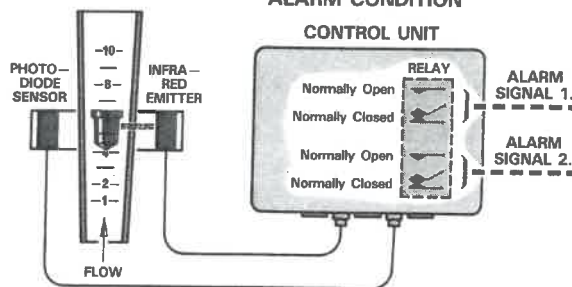
Special models can be offered with weatherproof switch housing and flameproof housing with BASEEFA approval.

PRINCIPLE OF SWITCH OPERATION:

NORMAL WORKING CONDITION

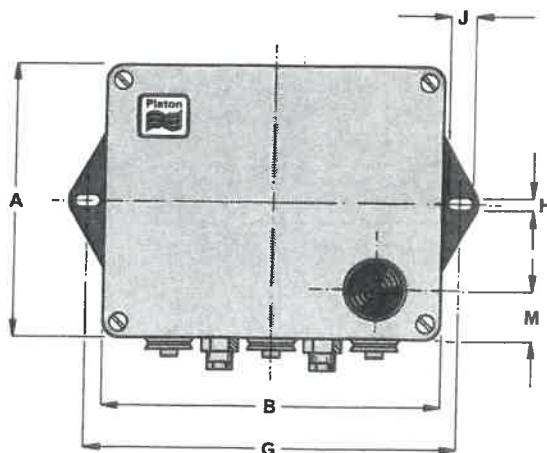
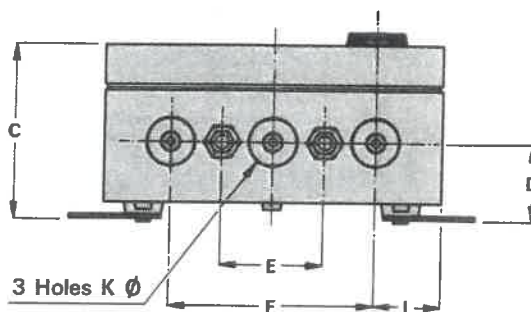


FALLING FLOW:— FLOAT INTERRUPTS BEAM CAUSING ALARM CONDITION



DIMENSIONS

For certified drawings and Operation and Maintenance Instructions, refer to leaflet C41.



	A	B	C	D	E	F	G	H	J	K	L	M
mm	138	173	85	40	50	100	185	6	11	21.5	34	25
in's	5.43	6.81	3.35	1.57	1.97	3.94	7.28	0.24	0.43	0.85	1.34	0.98