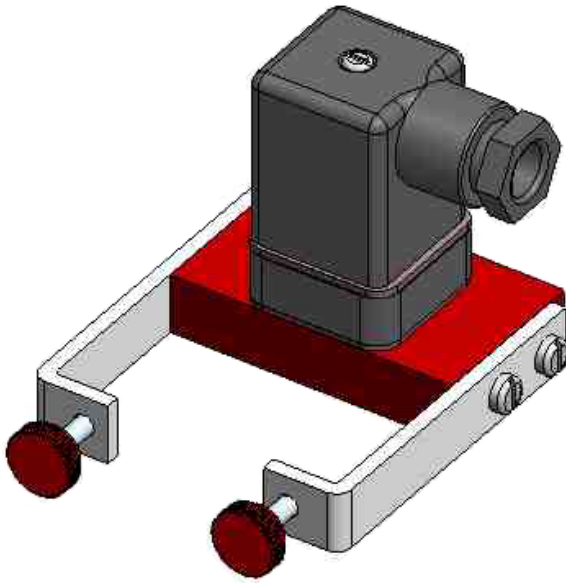




## Instructions Manual

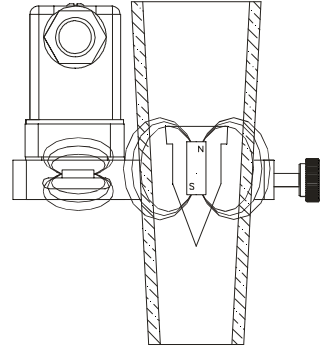


## OPERATION

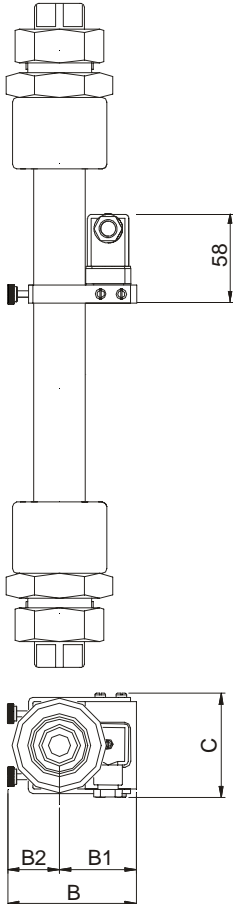
The fluid that flows through the flow meter displaces the float inside.

The float, as it passes by the point where the 60-AMR limit switch is, by means of magnetic coupling acts on the bi-stable reed switch changing its state.

This state is maintained until the float passes in the opposite direction at the limit switch position, changing the reed switch to its original state.



## DIMENSIONS (in mm)



DN	B1	B2	B	C
15-20	50	31	81	56
20-25	52	35	87	70
40	60	41	101	96
50	71	45	116	112
65-80	84	52	136	135

## ELECTRICAL CONNECTION

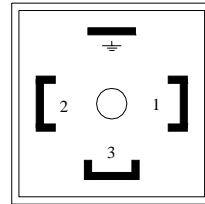
For the electrical installation it is recommended to use multiple conductor cable sections in the order of 0.25 or 0.5 mm<sup>2</sup> in order to make it easier to connect. Individual cables should not be used as they will impair the IP65 rating of the cable gland.

Before starting the installation, check that the cable to be used are the right size for the cable gland on the connector, this will guarantee the instrument will stay water tight.

Peel the outside insulation to free the inner cables. It is recommended to tin the cables at the ends of the wires to avoid loose ends which can produce short circuits. Pass the cables through the cable gland and screw in the cables in their positions. Once the wiring is finished make sure that the cables are well gripped by the cable gland to maintain the ingress protection degree.

In the female connector (A):

- Terminal 1: Reed switch contact
- Terminal 2: Reed switch contact
- Terminal 3: No connection
- Earth terminal: No connection

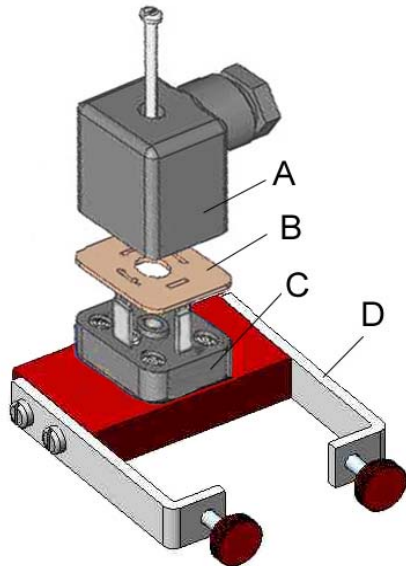


## MOUNTING

Once the electrical connection has been made and the cable gland has been tightened, mount the female connector (A) on the male base (C), placing the seal (B) between the two pieces.

To fix the limit switch in its position on the flowmeter, unscrew one of the brackets (D), situate the limit switch on the frame and reassemble the bracket.

Situate the limit switch at the required height and tighten the knurled screws.



## MAINTENANCE

Place the limit switch in its normal working position and move a magnet in the centre of the brackets as if it was the float. The magnet should be in a vertical position with the North pole upwards.

To check the operation do the following:

If a multimeter with resistance measurement is available, connect it to terminals 1 & 2 of the connector base.

Move the magnet in front of the switch in both directions.

The multimeter must change from open circuit to short circuit in one direction and vice versa in the other when the magnet passes between the brackets.

The state of the reed switch (open or closed) with zero flow rate will be as specified in the purchase order. If you need to invert this state, you only have to unscrew the four screws that hold in the connector base (C), turn the base 180 ° and reassemble it.

## TECHNICAL CHARACTERISTICS

- Material: PVC housing
- Ambient temperature: -15 to 60 °C
- Contact rating: 0,5 A / 250 VDC / 12 VA
- Hysteresis:  $\pm 5$  % of full scale value
- Ingress protection degree: IP65
- DIN 43650-A connector , PG9 cable gland
- Conforms to 73/23/EEC Directive



## WARRANTY

Tecfluid S.A. GUARANTEES ALL ITS PRODUCTS FOR A PERIOD OF 24 MONTHS, after consignment, against all defects in materials and workmanship.

This warranty does not cover failures which can be imputed to misuse, use in an application different to that specified in the order, the result of service or modification by un-authorized persons, bad handling or accident.

This warranty is limited to cover the repair or replacement defective parts which have not been damaged by misuse.

This warranty is limited to the repair of the equipment and all further and eventually following damages are not covered by this warranty.

Any consignment of equipment to our factory or distributor must be previously authorised. The consignment should be done with the equipment well packed, clean of any liquids, grease or hazardous materials. Tecfluid S.A. will not accept any responsibility for damage done during transport. Together with the equipment, a note should be enclosed indicating the failure observed, the name, address and telephone number of the sender.

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TECFLUID  
B.P. 27709  
95046 CERGY PONTOISE CEDEX (FRANCE)  
Tél. 01 34 64 38 00 – Fax. 01 30 37 96 86  
Internet : [www.tecfluid.fr](http://www.tecfluid.fr)