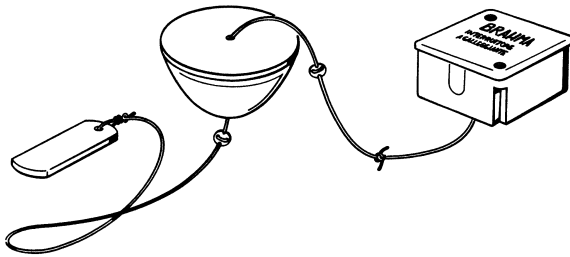


FLOAT SWITCH FOR NON-PRESSURE TANKS TYPE ILA



GENERAL DESCRIPTION

In comparison with other types of switches, the ILA float switch stands out for its easy mounting onto the tank. In fact, the ILA works correctly with just the ballast provided with the standard model, without requiring any extra weights, balancers, pulleys, etc.

Thanks to this feature, it can be positioned directly on the tank cover, after making three holes on the cover itself (two for fixing the switch, one for threading the cord into the tank), which are then covered by the switch box. In this way, no dust, insects or small animals can get into the tank, something which often occurs with any other switches available in the market today.

Moreover, once the switch has been mounted, there is no need for adjustment or calibration of the float. The only necessary regulation is to fix the stops on the cord in order to get the height difference required.

USE

The ILA float switch has been designed for use in plants equipped with non-pressure (free-surface) tanks.

By means of this device, it is possible to control the motor of an electric pump for filling or emptying the tank.

If the pump is fitted with a three-phase motor, a remote-controlled overload cutout is necessary (see wiring diagram with three-phase motor); if the motor is single-phase (1 HP max. power) it can be controlled directly (see wiring diagram with single-phase motor).

The ILA can be used as a switching device, which enables to create circuits with acoustic or luminous signals, both for opening and closing. It can also be used as a reserve-level indicator.

If the liquid in the tank is not water, the ILA can be supplied with a (black) nylon float which is resistant to hydrocarbons in general and to several other liquids.

MANUFACTURING FEATURES

The switch consists of a heat-varnished die-cast aluminium casing. The cover is waterproof thanks to a rubber gasket.

The terminals of the micro release can be reached through a rubber fairlead.

The release mechanism is a microswitch. Two stressed spiral springs enable to get considerable pressure and release speed on the contacts.

This device provides high reliability, testified by the large number of Customers who have been using it for almost twenty years now.

If the ILA is fitted to tanks containing water, the standard model will have a float made of grey ABS.

APPLICATION EXAMPLE

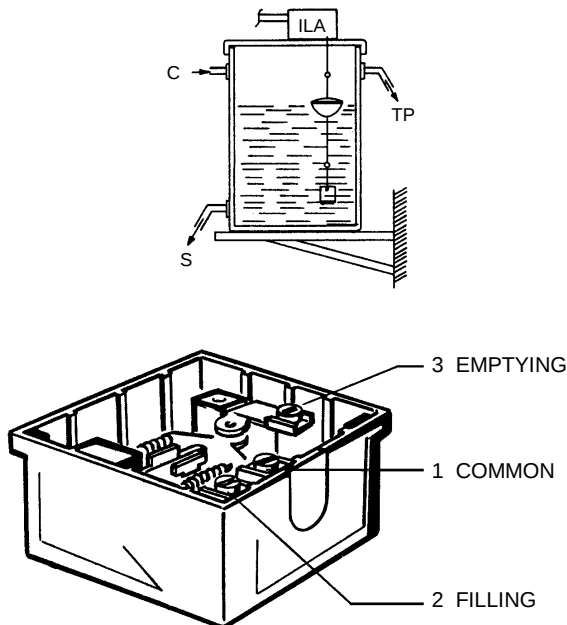


Figure 1

TECHNICAL FEATURES

Microswitch	1 changeover contact
Max. contact rating	6A at 220V
Casing	die-cast aluminium
Colour	heat-hammered grey
Float	ABS, grey for water nylon, black for other liquids
Ballast	zinc-plated and passivated steel
Cord	flexible nylon thread
Cord length	standard 1 m.
Min. length difference	2 cm.
Max. height difference	limitless, based on the space available for the float movement
Mounting position	horizontal
Protection rating	IP44
Total weight of the switch complete with float	460 gr.
Single package weight	70 gr. approx.
100-piece package weight	2,5 kg. approx. – 46x76x78

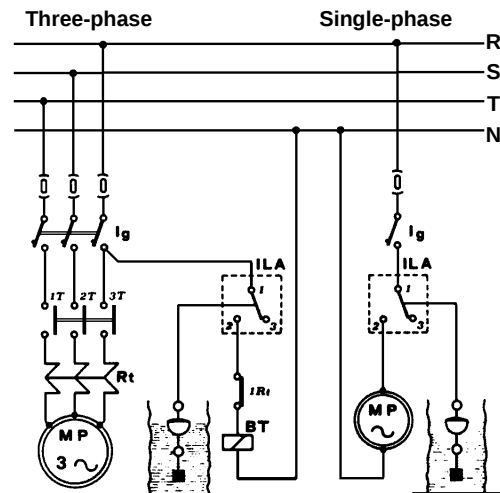
INSTALLATION

After drilling three holes diam. 5 on the tank cover (see drilling template), fix the switch box to the tank cover and knot the cord of the float to that of the switch box. Adjust the stops on the cord to establish the min. and max. heights for the device to operate on.

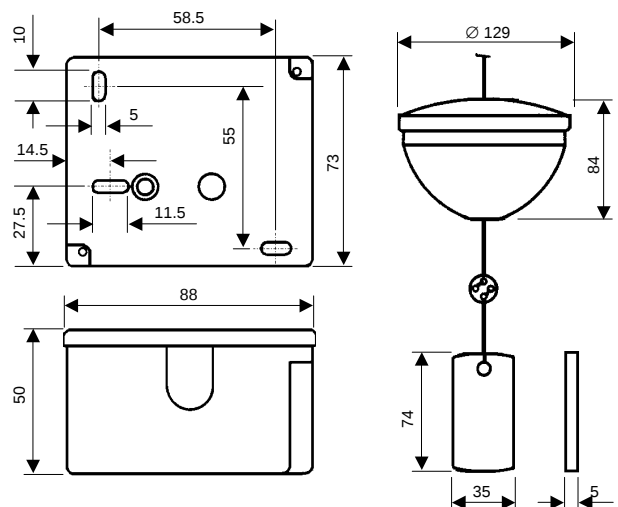
Finally, consider that if the device is used to control a loading pump, terminals no. 1 (common) and no. 2 (filling) will have to be used (see Figure 1). If the device is used with an unloading pump, terminals no. 1 (common) and no. 3 (emptying) should be used (see Figure 1).

For the electric conductors, keep to IEC specifications.

WIRING DIAGRAM



OVERALL DIMENSIONS



ATTENTION -> Company Brahma S.p.A. declines any responsibility for any damage resulting from Customer's tampering with the device.

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