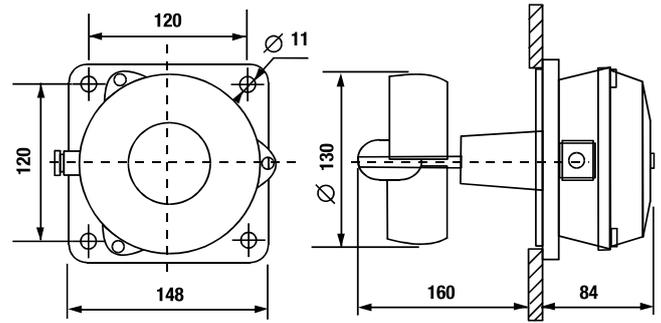


## Bladed level controls for powders and granules

Suitable to control the level of powders and granules in storages or tanks, for high and low level signalling, for transporter control, for feeders, etc.



Dimensions (mm)

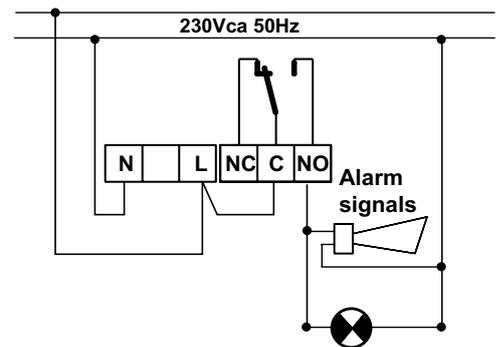
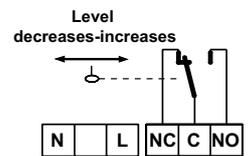


Type	Level differential mm	Power supply	Operating temperature	Protection degree
ASE blades	50 fixed	230 Vac	-20 ÷ 80 °C	IP54

## ELECTRICAL FEATURES

Synchronous motor: 4.5VA, supply voltage 230Vac 50Hz.  
2 SPDT microswitches: one for motor control, one for operation.

Nominal insulation tension	Ui 380Vac
Continuous duty nominal current	Ith 10A
Operating nominal current Ie:	220V- 250Va.c.
Resistive load	AC-12 - 10A
Inductive load	AC-15 - 4A
Direct current	DC-13 0,2A -



## HOMOLOGATION AND STANDARDS

Complies with CEI- EN 60947-5-1 standards.

# INSTALLATION

Flange connection suitable for horizontal and vertical installation.

Connection through motor's power supply terminal block.

Connect the microswitch for automatic level adjustment.

Activate the electric motor for free rotation of the propeller.

Propeller blocking should unlock the microswitch.

It is recommended to install ASE away from storages loading places and away from the presence of materials with high specific gravity, protecting by a reflective device the shaft and the propeller.

## MAXIMUM LEVEL

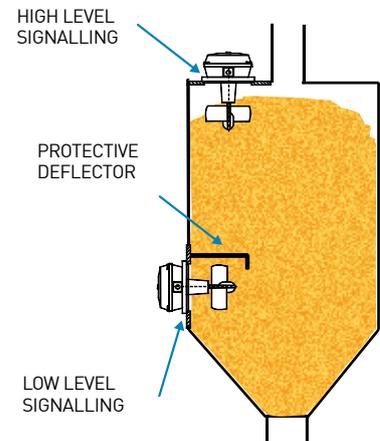
Device installation usually is carried out on the head side of the tank.

## MINIMUM AND MEDIUM LEVEL

Usually, the device is mounted horizontally.

For small tanks, extending axle you can mount as well on the head side.

For lightweight materials and fluids are used screws with large blades. For large sizes materials are required screws with flexible blades.



# OPERATION

Elements, that determine the operation are the synchronous motor and its torque.

The material impedes propeller rotation to a stop.

Suitable to control materials (such as granules and powders) with a specific gravity of approximately  $0,7 \text{ kg/dm}^3$ .

When the material hampers the screw rotation, the electric motor with the force of its torque acts on the microswitch, which closes or opens the electrical circuit ( $24 \div 280\text{Vac } 10\text{A}$ ) while the second microswitch shuts down the motor disconnecting the power supply. Reducing the level, the propeller is released and through the return spring the motor and microswitches automatically pass into the initial position.

N.B. If you want to use for control a second microswitch, used voltage should be the same with motor's supply voltage.

# FEATURES

Aluminium alloy body.

Stainless steel 4-blade propeller.

Clutch shaft mounted on sealed ball bearings.

Output connections with shockproof thermoplastic cable gland G 1/2" .

Storage and transport temperature:  $-25 \div 70^\circ\text{C}$ .

Unit weight: 2.2 Kg.