

I N S T R U C T I O N - M A N U A L

ROTATING PADDLE LEVEL SWITCH

JAYCEEROTO– 6001 SERIES

FEATURES

Level switch for powders and free flowing solids
Flexible coupling (optional as per application)
Extension up to 3 m
Robust, dust and watertight housing
Extended life by motor shut off design
Sealed bearings
Interchangeable paddle assemblies,
Magnetic Clutch Mechanism

ABOUT JAYCEEROTO

A small electric motor drives the paddle, which rotates freely in the absence of material. Impeded by material the motor will be turned within the housing while loading a spring and triggering two switches. One of them is a dry electric contact for control and alarm functions while the other cuts the power to the motor. When the material level drops, the loaded stretched tension spring returns the motor to its original position and the unit is reactivated.

APPLICATION

JAYCEEROTO heavy duty, rotary paddle switches are the most suitable for level detection of dust granules and other free flowing solids up to the particle size of Ø10 mm. Mounted in bins, silos and hoppers it can be applied for control of level, filling and emptying as well as for protection against overfilling.

Main application areas:

Agriculture: beet slice, hard crop, Chemical industry: plastic powders, granules, pellets
Food industry: sun flower, sun flower cod, Building industry: sand, calcium powder, gypsum, coffee and cacao powder, flour, sugar, etc. Energetic: active soot, coal powder, fly ash

Number and material of vanes

Specific gravity and particle size of the material provides orientation for the number of vanes. Most commonly used is the stainless steel, single vane blade. The lowest specific gravity for this paddle is 0,4 kg/dm³.

For lighter materials the use of 3- or 4-vane paddle is recommended,

Probe length

Standard protrusion length of the unit is 150 mm. Longer protrusion is provided by the (up to 3 m)

Technical Details

Housing	: Cast Al
Protrusion length	: 150 mm standard, Extension upto 3 mtrs
Revolution per minute	: 1 / minute
Ambient temperature	: - 40 °C to +65 °C
Material of wetted parts (glass reinforced)	: Galvanized mild steel, stainless steel, Plastic
Material and number of vanes	: Galvanized mild steel, stainless steel, 1 - 4
Process connection	: 1-1/2" BSP (standard), others on request.
Medium specific gravity	: min. 0,08 kg / dm ³
Medium temperature	: up to 80 °C, Stand off above 80 °C
Electrical Cable gland	: PG -16, 2 nos. (Polymer)
Medium pressure max	: 2 bar
Output	: SPDT 230 V AC, 10 A, (standard)
Power supply	: 230 V AC or 110V AC
Power supply for (24 v DC) : 24 V DC, 1 AMP.	
Power consumption	: 2 Watt

Mounting Details :

- For side mounting, the L type can be inserted through 1.5" BSP (F) – socket. The length should be equal to the thread length of the instrument. Material should not get accumulated inside the mounting socket which otherwise will stop the rotation of the shaft. The socket must be weld on wall surface so the total length of socket will be outside the tank.

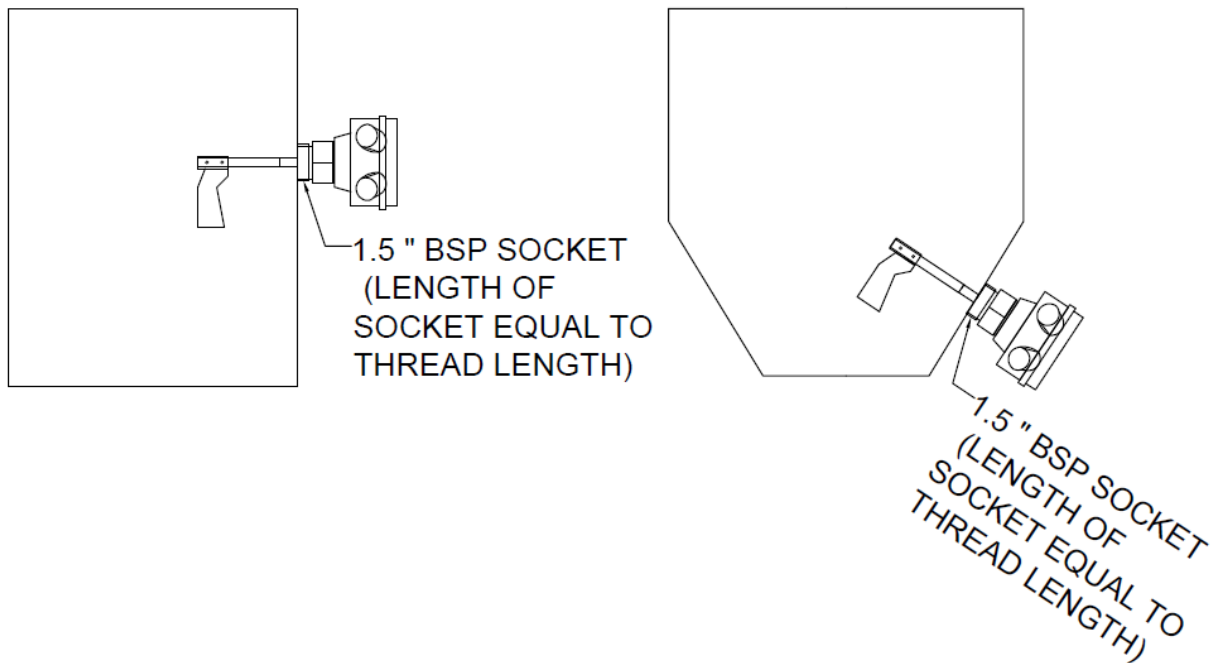
- Standard Thread length of Paddle is 20 mm . So socket will be of 20 mm . (If socket is not available in 20 mm then you will have to cut one socket of 40 mm into two pieces.)
- Paddle must be rotate freely inside the hopper/Tank.

Please note:

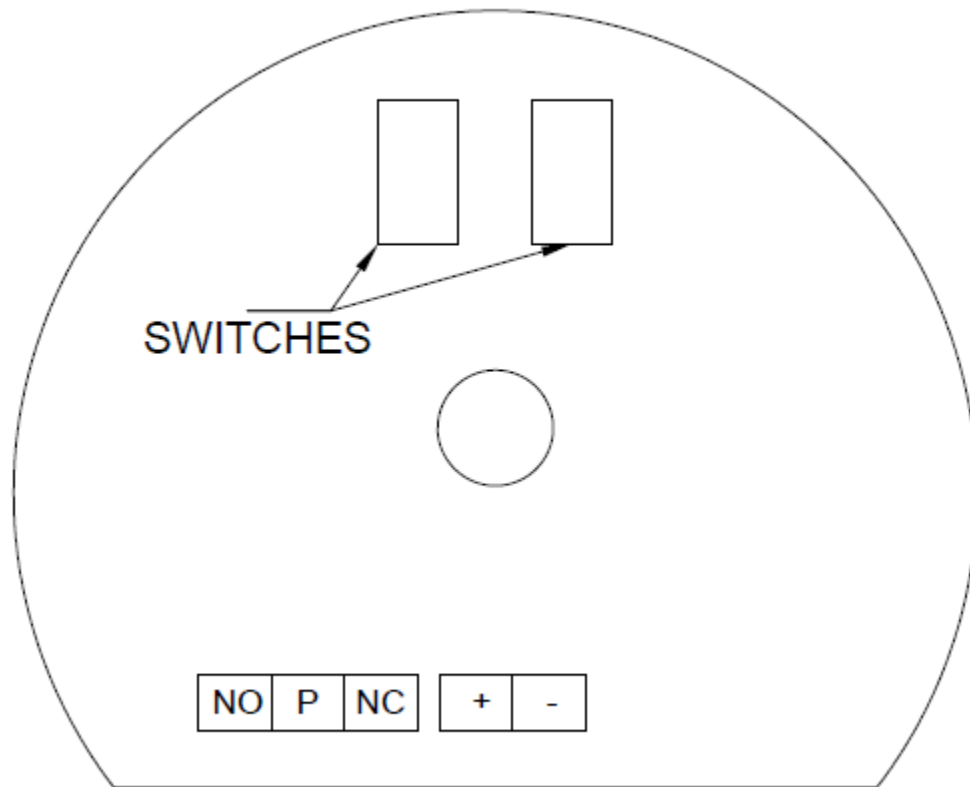
If there is open gland, must be sealed.

Prevent water to go inside the housing during rain or cleaning the hopper/tank.

Do not grip paddle housing for tighten the instrument. Clamp the pipe range on nut only.



MOUNTING DRAWING



CONNECTION DRAWING

JAYCEE TECHNOLOGIES PVT LTD.

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