

Rotary Paddle Level Switch

Rotary Paddle Level Switch is a level controller that is used in solid materials (including powder, grain, mass and colloid). It is designed with the features of superior tightness and overloading (overload protection), light weight and easy installation, and high contact capacity. The overall contacting section can be stainless steel which can be realized by adjusting the tension of the spring. This switch is widely used in chemical industry, plastic, cement, pharmacy, forage, food and other industries.

The blades are driven by the permanent-magnet electromotor, when the level ascends to the blades level, the blades stop rotating, and the resistance is transferred to the detecting device inside the junction box through the transmission shaft. When the level descends, the resistance of the blade disappears, the detecting device restores to the original status with the tension from the spring, and the blade rotates again. Provided the density of the solid is high, the tension of the spring shall be adjusted. The tension of the spring shall be adjusted to “highest” when the density is high, and to “lowest” when the density is low.

1. Power Supply: 220VAC
2. Power Consumption: 4W
3. Contact Capacity: 5A/250VAC SPDT
4. Blade Rotating Rate: 1RPM (Rds/min)
5. Moment: 1.0 kg×cm
6. Density: $\geq 0.5\text{g/cm}^3$
7. Operating Temperature: $-10\sim 80^{\circ}\text{C}$ (Max 400°C can be order)
8. Insulation Resistance: $\geq 100\text{M}\Omega$
9. Dielectric Strength: 1500V*1min
10. Rating of Protection: IP65
11. Blade Material: SUS304



US technology, three bearings support, reliable operation.

Special tightness design, the dusts are not permitted to enter through the axis (proprietary design).

Reliable and steady torsion, tangential torsion is adjustable.

The clutch slips automatically when the blade is overloading, by which the electromotor can not be damaged.

The inner parts can be inspected and maintained easily without removing the whole parts from the bunker.

The junction box is designed with IP 65. The tightness is superior, and it is reliable for outdoor appliance.

It is light and easy to install.

It is suitable for many industrial appliances like steel, coal, cement, electricity, food and forage, plastic, chemical fertilizer and shipping industries.

The adjustment of the torsion spring:

The torsion spring is used to adjust the output torsion. The spring torsion can be adjusted to the highest if the density of the detected material

is high, which can make the sensitivity of the blade lower. If the density of the detected material is low, the spring torsion shall be adjusted to a lower value, which can consequently make the sensitivity of the blade higher. (Be careful of the spring of the torsion spring, do not change it if it is necessary for it is possible to cause malfunction)

Notices for installation:

1. If the temperature inside the barrel exceeds 80°C, please use the high temperature series products.
2. The opening of the junction box shall face downwards, the fixing nut must be tightened.
3. When connect the part with thread “1”, the falcate blades can be used in order to lock to the solenoglyphic tooth directly.
4. when it is mounted on the side plate, the controller level shall be 15° ~20° to the horizontal plane to minimize the impact on the material.
5. Type RT50 and RT70 can be top-loaded only.
6. When necessary, a copper plate can be welded above the bulkhead to reduce the impact of the product on the material.

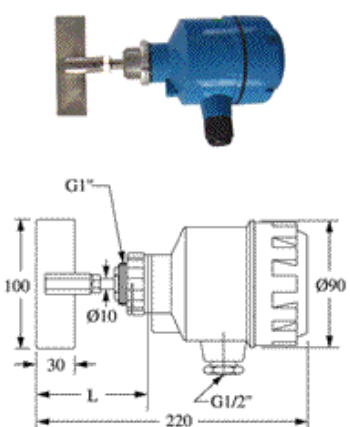
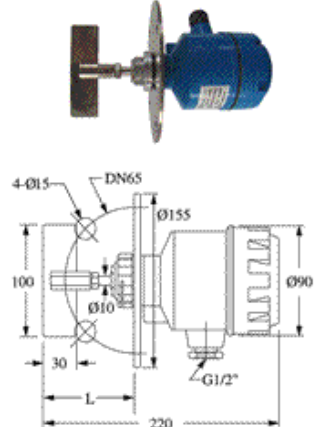
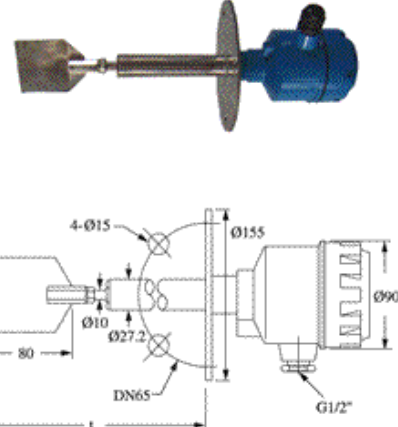
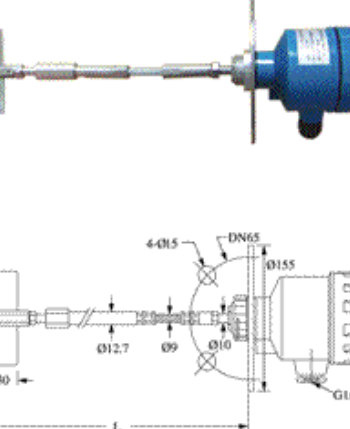
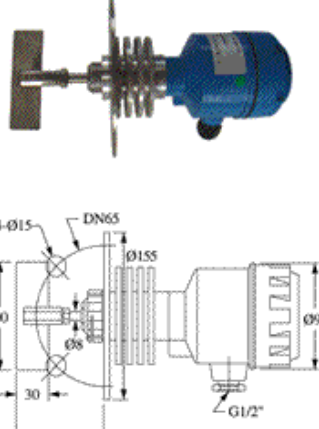
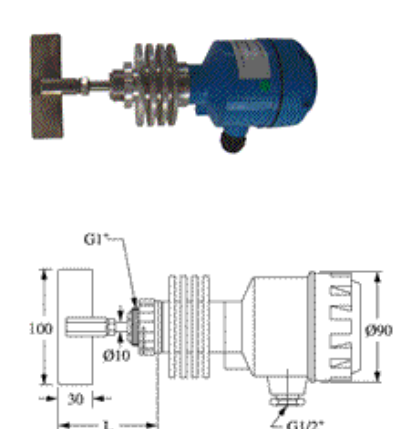
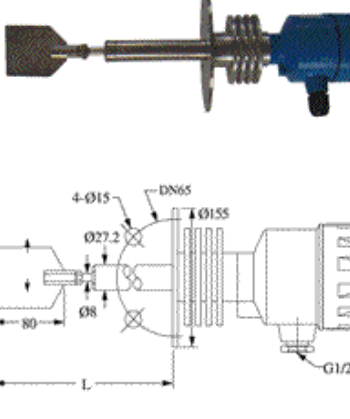
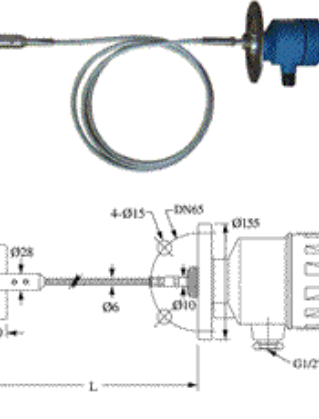
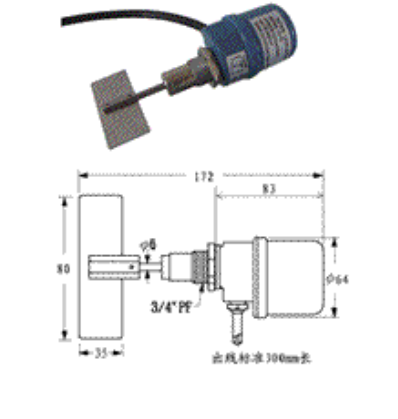
Type selection:

RT Rotary Paddle Level Switch

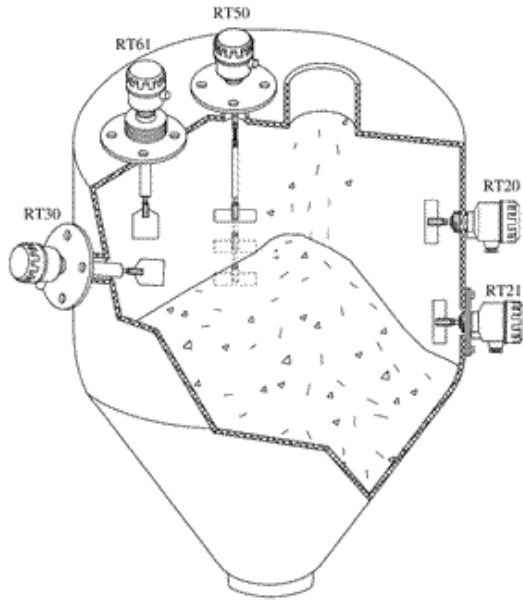
Type selection

L=90mm (RT20、RT21、RT60) ; L=240mm (RT30、RT61) ; L=650mm (RT50、RT70)

※length can be ordered based on customer requirements

<p>Rt20 (standard-screw)</p> 	<p>Rt21 (standard-flange)</p> 	<p>RT30(Axis tube)</p> 
<p>Rt50 (Adjustable-long shaft)</p> 	<p>Rt60 (high temperature-flange)</p> 	<p>Rt62 (high temperature-screw)</p> 
<p>Rt61 (high temperature-Axis tube)</p> 	<p>RT70(cable type)</p> 	<p>RT10(mini type)</p> 

RT Rotary Paddle Level Switch



RT

Type _____

20
21
30
50
60
61
62
70
10

Paddle type _____

RT20~RT70
A: 100×30 (WXH) D: Sicklet
B: 65×80 (WXH) S: other
C: 50×30 (WXH)

A

B

C

D

length (L) _____

Confirm the proportion of material to choose paddle;