Rotary Paddle Level Switch

RD



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Rotary paddle level switch utilizes micro motor as drive device, transmission shaft contact with clutch. When it does not contact with material, the motor runs normally; when the blade contacts with material, the motor stops running; testing device outputs a contact signal and cuts the power and it stops rotary in the meantime. The pressure to blade is disappear when the material gradually fall down, and the testing device recovered to the original state by torsion spring. Torsion could be regulated according to different gravity of material. RD series of rotary paddle level switch specially used for detecting material level of warehouse, vessel and tank. The material level switch can prevent warehouse flooding, tank jam and warehouse empty so as to reduce flooding, material waste and standby time. Rotary paddle level switch is also other solid matter rotary paddle level switch can eliminate the normal fault of common rotary paddle level switch. When adding material, it would not go to stop though the motor stops by cutting power. This can reduce fraction, operating temperature and extend the lifetime of motor. The switch contains little moving parts, three sets of drive bearing and sealed, lubricated driving gear assembly. That is why the RD series of rotary paddle level switch gains reliable control force in the market.

Product series







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Operation principle

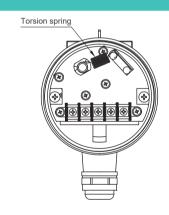
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Place of use

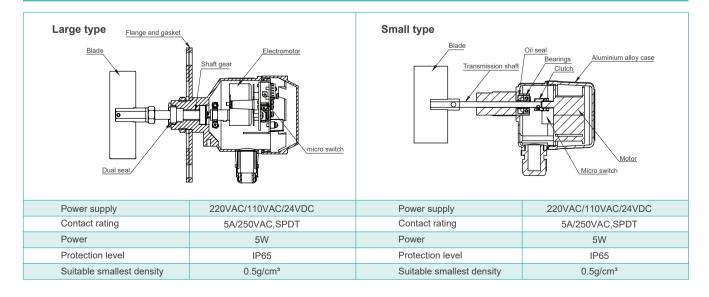
Suitable to be applied in chemistry, pharmacy, fodder, cement, food and metallurgical industry.

Product features

- 1. The motor imported motor has reliable performance which is able to run for long time;
- Special design of sealed oil can prevent powder dust enter along with the axis;
- 3. Torsion is stable and reliable, also could be regulated;
- 4. When the blade bears too much load, motor turning system will skid automatically to prevent from damage;
- 5. Contact specification, blade, length could be custom made.

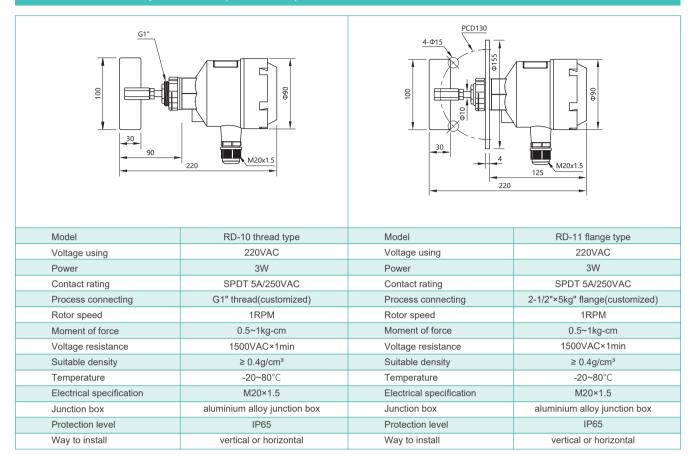


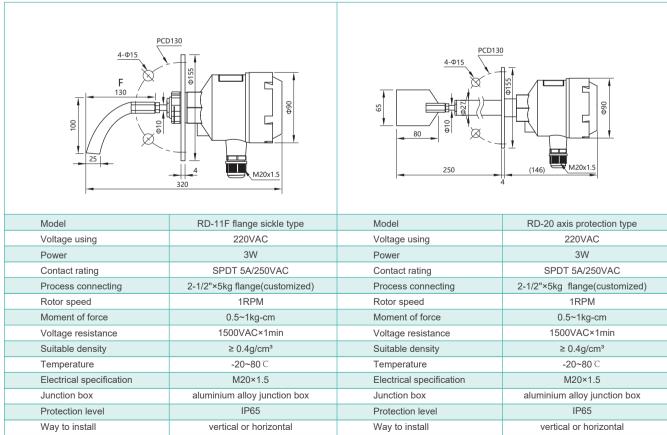
Electrical parameter



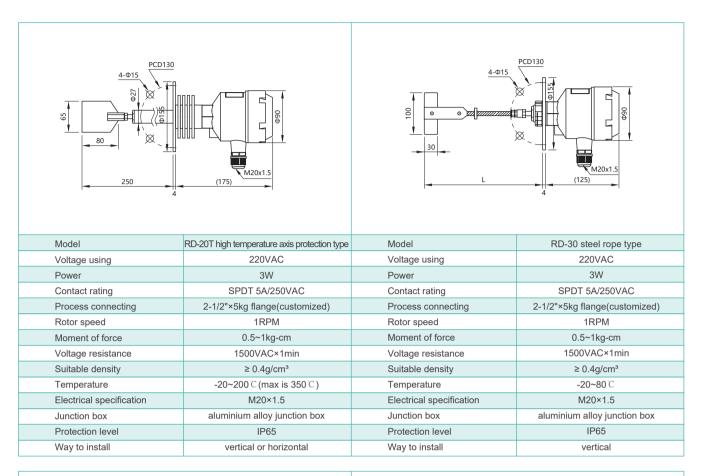
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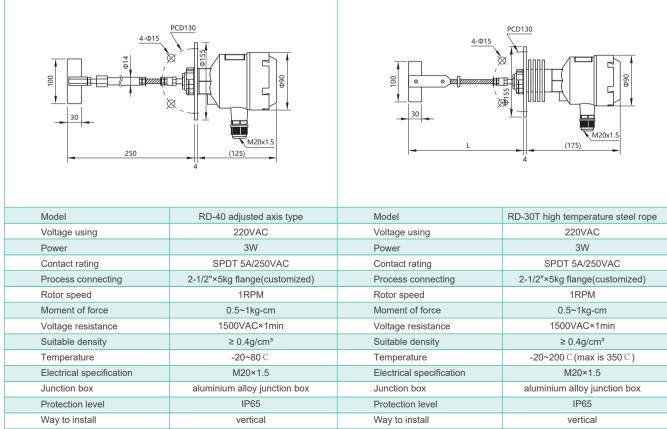
Product size and parameter (reference)





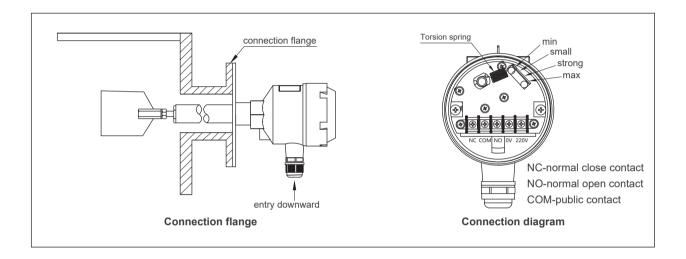
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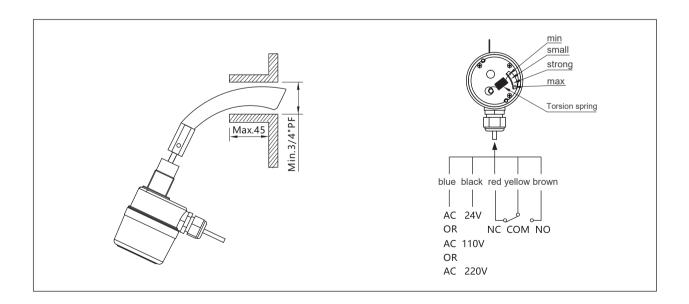




Installation instruction

- As below picture, rotary paddle switch should not be installed under the blanking mouth, if it is unavoidable, a protection plate should be installed above the blade, in case the blade is damaged and caused wrong action by materials.
- In case the outdoor water and rain water get into junction box, the electrical entry should be vertically installed and downward when it is installed horizontally. Cable retaining nuts should be locked tight and consider to install apprentice if possible.
- If feeling holes is smaller than the width of blade, blade could be removed and reassembled, and coating with thread-locking fluid before assembling, in case the blade is falling apart while working.
- Make sure the power voltage is the same as it displays on marking of switch.
- Please make sure the way of installation is vertical or horizontal.





Selection tables

Rotary paddle level switch

10: Thread type; 11: Flange type 20: Axis protection type 30: Steel rope type 40: Adjustable axis type 80: Mini small type Flange/thread size Flange/thread specification C:3/4"(20A) **U:**PN0.6(6Bar) I:4"(100A) L:5kg/cm² M:10ka/cm² V:PN1.0(10Bar) D:1"(25A) **J:**5"(1250A) N:150Lbs W:PN1.6(16Bar) **E:**1-1/2"(40A) **K**:6"(150A) **O**:300Lbs X:PN2.5(25Bar) F:2"(50A) S:Special size **Y**:PN4.0(40Bbar) P:PT G:2-1/2"(65A) **3:1-1/4"** (32A) Q:PF **Z:**PN6.3(63Bar) H:3"(80A) F:NPT S:Special size T:GAS T: -30~200°; H: -30~350°; This vacancy indicates normal temperature type D: 24VDC; A: 220VAC; B: 110VAC; C: 24VAC S:Standard junction box; E:Explosion-proof junction box A:T type blade; B/C/D:Square type blade; E:L type blade F:Sickle type; G:Cross blade; H:Arc blade (width 22) Explosion proof type selection (refer to blade selection table below) unit(mm) Process connection Temperature range Product series Insertion depth Blade Structure Power type RD -00 -0000

