

Spin -11P Guard Rotary Paddle Switch





Rotary Paddle Switch

In Spin-11 Rotary Paddle Switch series of products, micro motor, through a clutch, drives the rotation of a transmission shaft on which a paddle is assembled. When the spinning paddle is not contacted with measured material, the motor is in normal rotation; when the paddle is covered by the measured material, the motor stops rotating and its power is switched off automatically. At the same time, a switching signal is generated by a detection device to control the process of material transport /delivery. Rotary paddle switch is widely used in modern industrial process and storage.

Spin -11 Rotary Paddle Switch series is manufactured with high quality well-known brand motor, micro switch and bearing, etc. We also developed detailed technology, introduced strict production flow and quality inspection throughout. Spin-11 has high reliability and quality consistency. In comparison with other similar products in the market, Jiwei Spin-11 Rotary Paddle Switch has the following advantages:

- Purchased high quality well-known brand motors and micro switches as its key parts.
- Dual bearing design, with stable operation and long life time in service.
- Integrated design and anti-loose mechanical control mechanism, easy for parts replacement and maintenance.
- Made of 304/316L stainless steel.
- IP65 Ingress protection rating.



For different operation conditions, Spin -11 Rotary Paddle Switch series has two models to cope with:

Spin -11A Standard: For most of granular/powdery bulk solids level measurement.

Spin-11P Guard: Enhanced with a protection sleeve, suitable for bulk solid granules with higher density.



Spin -11P Guard Rotary Paddle Switch

Overview

In Spin-11P Guard Rotary Paddle Switch, the spindle is enhenced with a stainless steel protection sleeve to effectively avoid material impact damage. It is an ideal choice for measuring high density granuluar/powery bulk solids. Furthermore, we have introduced full production process and quality inspection to ensure our products have high reliability.

Features

- Strong impact resistance thanks to the strengthened spindle with a stainless steel protection sleeve.
- Purchased high quality key parts such as motor, micro switch from international market.
- Dual bearing design, stable operation and long life time in service.
- Integrated design of motor and anti-loose mechanical mechanism, easy for maintenance and parts replacement.
- Made of 304/316L stainless steel.
- With gas and dust explosion proof certificates, applicable in a wide range.
- IP65 ingress protection rating.

Typical applications

- Level measurement for high density granule and powder such as clay, metal, limestone and cement, etc.
- Level measurement for metal shavings, gravels, etc.

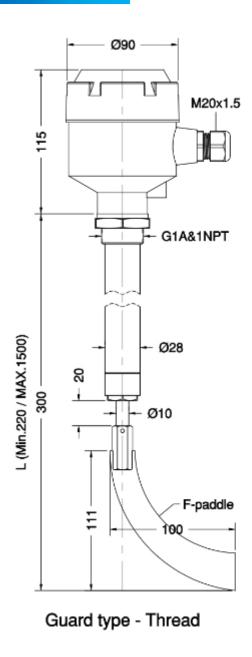
Technical data

| Measured medium | Bulk solid granule and powder |
|---------------------------------|-------------------------------|
| Medium Density | ≥0.3g/cm ³ |
| Process temperature | Normal: -20∼70℃ |
| | High temperature: -20∼400°C |
| Ambient temperature | -40∼85°C |
| Process fitting | Flange (thin/standard) |
| | Thread |
| Material for spindle and paddle | 304/316L |
| Paddle speed | 1 R.P.M |



| External housing | Aluminum alloy |
|---------------------------|--|
| Ingress protection rating | IP65 |
| Cable entry | M20 x1.5 |
| Contact rating | SPDT 5A/250V AC |
| Power supply | 24V DC |
| | 220V AC 50/60Hz |
| Approvals | Gas Flameproof Enclosure: Ex d IIC T6; |
| | Dust Explosion Protection Enclosure: Ex tD A21 IP65 T80℃ |

Dimensional drawings

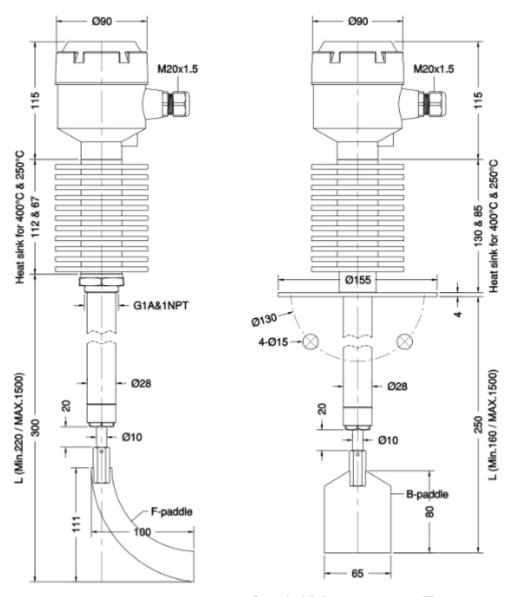


M20x1.5 Ø155 Ø130 4-Ø15 L (Min.160 / MAX.1500) Ø28 8 – Ø10 D-paddle 8 - 80 -Guard type - Flange

Ø90

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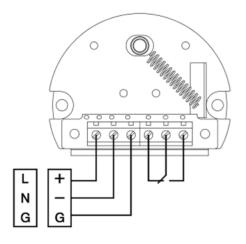




Guard - High temperature - Thread

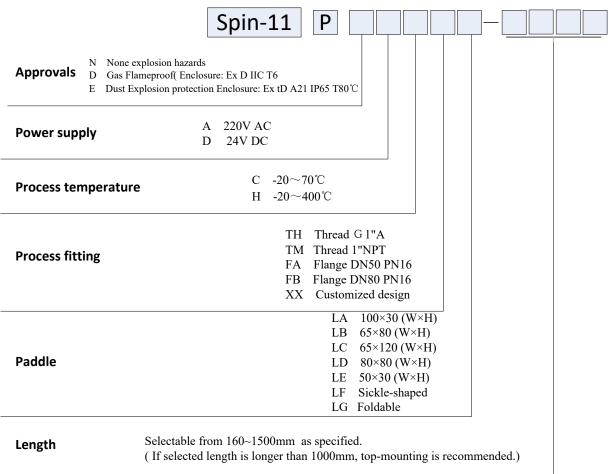
Guard - High temperature - Flange

Wiring plan





Order information



Note:

- 1. Length is defined by four digits in mm. For example, 500mm is expressed as 0500.
- 2. Default process fitting is made of 304 stainless steel, 316L and carbon steel are also available upon request.
- 3. Default flange is thin flange, standard flange is available upon request.
- 4. Default motor is standard motor, higher reliability motor is available upon selection.