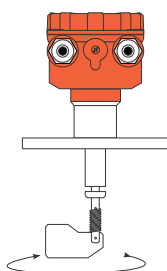




Rotating Paddle Level Switch for Solids & Powders

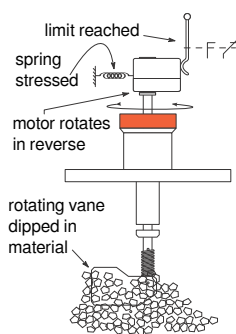
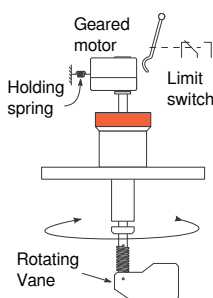


Operating Principle



Trumen rotating paddle level switches are spring loaded eccentrically driven rotating vanes or blades, which rotate at a slow rotational speed of 3rpm maximum, using a geared motor.

When material is absent, rotating vanes are free to move and motor is held to its normal position by a spring.



When material level reaches the rotating vanes, it tires to stop the rotation. This causes motor move in reverse as the spring can no longer hold it in its normal position.

When motor rotates to a sufficient degree, a limit switch gets triggered. This stops the power supply to the motor and another limit switch provides potential free output.

Applications

LSR is suitable for applications in free-flowing solid powders and granules, for example in cement industries, plastics, pharmaceuticals, chemicals and fertilizers, power, food and breweries, etc.

Features

Rugged construction and design along with proper sealing to prevent dust penetration.

No calibration required.

Extensible length model available

Different types of blades (vanes) available.

Stable and reliable performance

Specifications

Supply (M2) 220V AC $\pm 10\%$, 50/60Hz
 Output Potential Free SPDT Limit Switch
 Rating 5 A each @ 24VDC or 220VAC

Supply (M1) 110V AC $\pm 10\%$, 50/60Hz
 Output Potential Free SPDT Limit Switch
 Rating 5 A each @ 24VDC or 220VAC

Temperature:
 Ambient $-20^{\circ}\text{C} \dots 80^{\circ}\text{C}$ ($-4^{\circ}\text{F} \dots 176^{\circ}\text{F}$)
 Process $-30^{\circ}\text{C} \dots 100^{\circ}\text{C}$ ($-22^{\circ}\text{F} \dots 212^{\circ}\text{F}$)
 (extensions & heat sinks required)

Pressure atmospheric

Blade Material SS 316 or SS 316L

Process connections NPT / BSP $\frac{3}{4}$ ", 1", $1\frac{1}{4}$ ", $1\frac{1}{2}$ ", 2" etc
 Flanged : ANSI/JIS/DIN/ASA/custom

Paddle guide pipe material SS 304, SS 316, SS 316L

Max length 125mm to 1,000mm

Magnetic Clutch

Various Process Connections

90° Angled Extensions

Custom Blades Available

No Calibration Required

Easy Installation

Order Code

- LSR Rotating Paddle type Point Level Switch
- Hxx Enclosure: HAN: Aluminum Non-Hazardous IP-66/68, HAX: Aluminum Flameproof IIA, IIB and IIC,
- Tx Material Temperature (T1: max 80°C, T2: max 100°C, TS: Customer specified - Special designed)
- Sx Sensing Surface Material (S6:SS-316, SL, SS-316L, ST: PTFE coated, SF: PFA coated, SS: Special surface)
- Gx Sensor Extension Material (G4: SS-304, G6: SS-316, GL: SS-316-L, GT: PTFE coated, GF: PFA coated, GS: Special surface)
- Px Process Connection Type (PFL: Flanged Type – description of flange - FL -at the end of order code) (PB3: $\frac{3}{4}$ ", PB1: BSP 1", PB2: BSP $1\frac{1}{2}$ ", PB4: BSP $1\frac{1}{4}$ ", PB5: BSP 2") (PN3: $\frac{3}{4}$ ", PN1: NPT 1", PN2: NPT $1\frac{1}{2}$ ", PN4: NPT $1\frac{1}{4}$ ", PN5: NPT 2") (PT1: Triclover/Triclamp $1\frac{1}{2}$ ", PT2: Triclover/Triclamp 2")(PCS: Special Process Connection)
- Cx Process Connection Material (C4: SS-304, C6: SS-316, CL: SS-316L, CT: PTFE coated, CF: PFA coated, CS: Special material)
- Mx Power supply type, M1 : 110V AC 50/60Hz, M2 : 220V AC 50/60Hz
- Vxx Vane Type (Paddle Type) VF2: Fixed two fin blade, VF3: Fixed 3 fin blade, VF4: Fixed 4 fin blade, VS1 : Single spring loaded blade, VS2: Double spring loaded blade, VSW: Single sword type blade, VSV: Specially designed blade
- Lxxxx Insertion length (100mm to 1000mm)
- FLxx Flange type and bore size specified for ASA/ANSI/JIS/DIN/Custom

Blade Types

