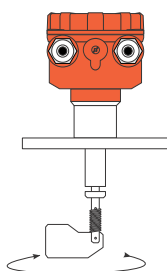


Rotating Paddle Level Switch for Solids & Powders

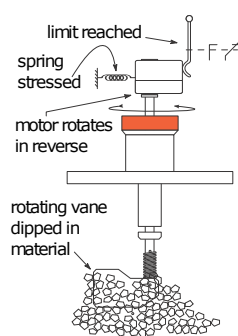
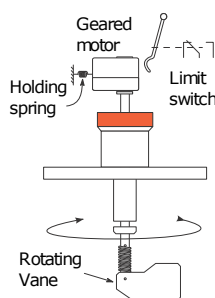


Operating Principle



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 tries 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 grainules, for example in cement industries, plastics, pharmaceuticals, chemicals and fertilizers, powder, 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 Vane/ Paddle 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

Supply (M3) 24V DC,
Output SPDT Limit Switch
Rating 6 A each @ 24VDC or 220VAC

Temperature: -20°C ... 80°C (-4°F ... 176 °F)
Ambient -30°C ... 100°C (-22°F ... 212 °F)
Process (extensions & heat sinks required)

Pressure atmospheric

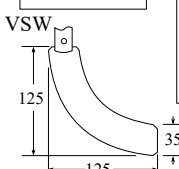
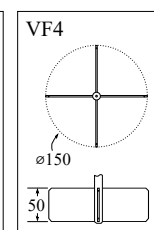
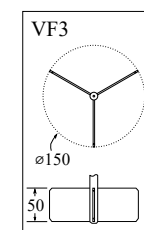
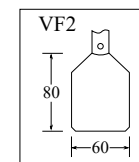
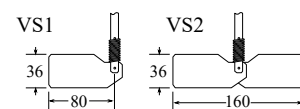
Vane/ Paddle SS 316 or SS 316L
Material NPT / BSP ¾", 1", 1¼", 1½", 2" etc
Process connections Flanged : ANSI/JIS/DIN/ASA/custom

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

Max length 100mm to 2,000mm
Vane/ Paddle 2mm
Thickness

Vane/ Paddle Types

Typical Dimensions



Magnetic Clutch

Various Process Connections

90° Angled Extensions

Custom Vane/ Paddle 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 Ila, I Ib and I Ic
Tx	Material Temperature (T1: max 80°C, T2: max 200°C, T3: max 300°C, TS: Customer specified - Special designed)
Rxx	Sensor rigid/flexible type, RD : Rigid Rod Probe, RP : Flexible Rope Probe, RT : Rigid Pipe / Tube Probe RS : Specially designed Probe
Gx	Sensor Extension Material (G4: SS-304, G6: SS-316, GL: SS-316-L)
Vxx	Vane /Paddle Type (Please refer drawing at right bottom) VF2: Fixed Vane/ Paddle, VF3: Fixed 3 Vane/ Paddle, VF4: Fixed 4 Vane/ Paddle, VS1 : Single spring loaded Vane/ Paddle, VS2: Double spring loaded Vane/ Paddle, VSW: Single sword type Vane/ Paddle, VSV: Specially designed Vane/ Paddle
Sx	Vane/ Paddle Surface Material (S4: SS-304, S6: SS-316, SL: SS-316L, SP: Plastic [to be specified] Vane/ Paddle)
Px	Process Connection Type (PFL: Flanged Type – description of flange - FL -at the end of order code) (PB3: ¾", PB1: BSP 1", PB2: BSP 1½", PB4: BSP 1¼", PB5: BSP 2") (PN3: ¾", PN1: NPT 1", PN2: NPT 1½", PN4: NPT 1 ¼", PN5: NPT 2") (PT1: Triclover/Triclamp 1½", PT2: Triclover/Triclamp 2") (PCS: Special Process Connection)
Cx	Process Connection Material (C4: SS-304, C6: SS-316, CL: SS-316L)
Mx	Power supply type, M1 : 110V AC 50/60Hz, M2 : 220V AC 50/60Hz, M3 : 24V DC
Lxxxx	Insertion length (100mm to 2000mm)
FLxx	Flange type and bore size specified for ASA/ANSI/JIS/DIN/Custom

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