

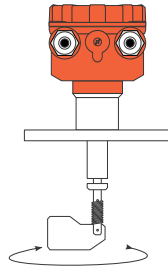
ROTATING PADDLE LEVEL SWITCH FOR SOLIDS & POWDERS



IPS-LS-07

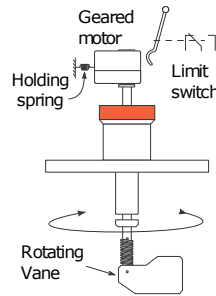


OPERATING PRINCIPLE

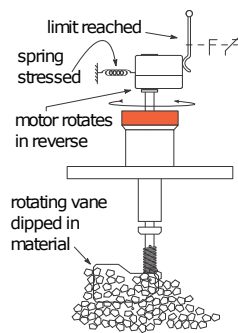


IP SPL rotating paddle level switches are spring loaded eccentrically driven rotating vanes or blades, which rotate at a slow rotational speed of 3rpm maximum, using a geared motor.

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

IPS-PLS-07 is suitable for applications in free-flowing solid powders and granules, for example in cement industries, plastics, pharmaceuticals, chemicals and fertilizers, powder, food and breweries, etc.

FEATURES

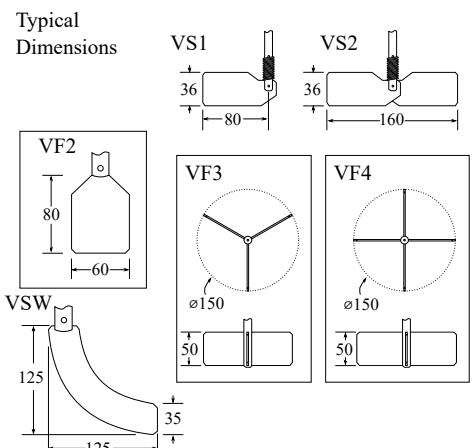
- ➔ Rugged construction and design along with proper sealing to prevent dust penetration.
- ➔ No calibration required.
- ➔ Extensible length model available
- ➔ Different types of Vane/ Paddle available. Stable and reliable performance

SPECIFICATION

Supply (M2)	220V AC ±10%, 50/60Hz
Output	Potential Free SPDT Limit Switch
Rating	5 A each @ 24VDC or 220VAC
Supply (M1)	110V AC ±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	
Process	NPT / BSP ¾", 1", 1¼", 1½", 2" etc
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



Magnetic Clutch

Various Process Connections

90° Angled Extensions

Custom Vane/ Paddle Available

No Calibration Required

Easy Installation

Order Code

IPS-LS-07 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 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 1¼", 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
Lxxx	Insertion length (100mm to 2000mm)
FLxx	Flange type and bore size specified for ASA/ANSI/JIS/DIN/Custom



IndustriX Precise Solutions Private Limited

Room No – 303, Bhumika Residency, Plot No-21, Sector-20, Roadpali, Kalamboli, Panvel (Tal.), Raigad (Dist.), Maharashtra, India – 410218.

Mobile: +91 99309 98399 / +91 99674 97447

E-mail: admin@ipspl.in / sales@ipspl.in Website: www.ipspl.in

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