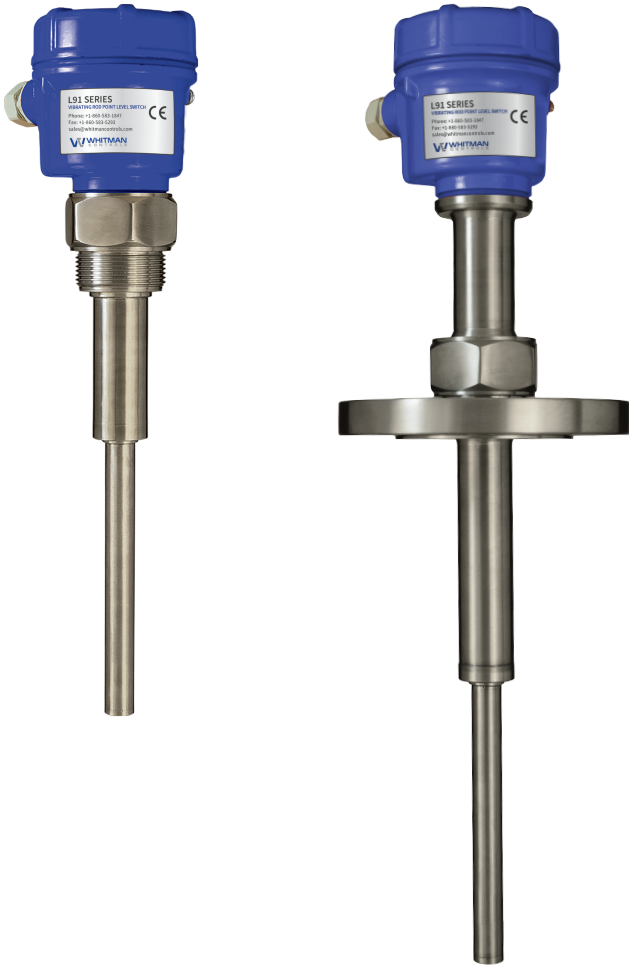


L91 SERIES

VIBRATING ROD POINT LEVEL SWITCH



DESCRIPTION

The L91 Series Vibrating Rod Point Level Switch is a heavy-duty stainless steel vibrating rod ideal for measuring the presence of solids and powders across a wide range of media and applications. When materials come into contact with the measuring rod, the frequency of vibration falls relative to the natural resonance frequency in free air, sending an electronic signal detecting the presence of material. These durable, yet compact, devices come with a wide range of electrical connections, outputs, fittings, and a number of other selections to meet any end-user demands. These devices are ideal in free flowing powders and granules, most commonly found in the agriculture and cement industries. They can be mounted on the top or side of tanks or grain elevators, and can operate in temperatures up to 392°F and pressures up to 215 PSIG.

KEY FEATURES

- Durable for high pressure / high temperature environments
- Wide range of sensing surface materials to meet any media
- Fast Switching Response
- Ingress protection : IP 68/66
- Vibration complied as per IEC 60068 part 2-6
- Low power consumption
- Settable switching delays

SPECIFICATIONS

Electrical		Other	
EIUD / ERUD Supply & Output Relay Type and Rating	Integral / Remote Electronics DPDT Output Universal Power Supply, DPDT Relay Output 15 to 80 VDC and 15 to 260 VAC 50/60Hz Potential Free DPDT Relay Output 5 A each @ 24VDC or 220VAC	Sensor Cable	Remote electronics require special cable from fork to controller 10 meter standard length (Custom Lengths available on demand)
EIDP / ERDP Supply & Output Output Limit	Integral / Remote Electronics for PNP Output 12 to 60 VDC, PNP 250mA max. Short Circuit Safe	Min. Density Ambient Temp. Process Temp. Extended Process Temperature Process Pressure Wetted Parts Mountings Extensions Tube	>=350 gram/litre, not fluidized -20°C - 70°C (-4°F - 158 °F) -20°C - 80°C (-4°F - 176 °F) -30°C - 250°C (-22°F - 482 °F) (extensions & heat sinks required) absolute / max. 15 bar SS 316 or SS 316L NPT / BSP 1", 1.1", 1.6", 2" etc Flanged : ANSI/JIS/DIN/ASA/custom SS 304, SS 316, SS 316L
EIUSP / ERUSP Supply & Output Relay Type and Rating	Integral / Remote Electronics SPDT + PNP output Universal Supply for SPDT output 15 to 80 VDC 15 to 260 VAC 50/60Hz DC Supply for PNP Output 15 to 60 VDC Potential Free SPDT Relay Output 5 A each @ 24VDC or 220VAC 250mA max. Short Circuit Safe	Vibration Test Material & Length Power Consumption	As per IEC 60068 part 2-6 sinusoidal, 10-55Hz, 0.15mm 250mm to 3,000mm 0.5 VA max.
EIDL Supply & Output Output Limit	Integral Electronics 4-20mA Loop Powered Two Wire DC 8 / 16 mA 15 to 60 VDC 8mA (±1mA max) / 16mA (±1mA max)	Typical Mountings	

ORDER GUIDE

L91 Series

L91	Hxx	Tx	Sx	Gx	Px	Cx	Exxx	Lxxxx	FLxx
	Enclosure	Material Temperature	Sensing Surface Material	Sensor Extension Material	Process Connection Type	Process Connection Material	Electronics (See Page 2 for Description)	Insertion Length	Flange Type and Bore Size
	HAN: Aluminum Non-Hazardous IP-66/68 HAX: Aluminum Flameproof IIa, IIb and IIc HSN: Stainless steel HPN: Polycarbonate (Plastic) HES: Specially designed as per customer requirement	T1: max 80°C T2: max 200°C TS: Customer specified - Special designed	S4: SS-304 S6: SS-316, SL, SS-316L, SS: Special surface	G4: SS-304, G6: SS-316, GL: SS-316-L, GS: Special surface	PFL: Flanged Type (See end of order code) PB1 1" BSP PB2 1 1/2" BSP PB4 1 1/4" BSP PB5 2" BSP PN1 1" NPT PN2 1 1/2" NPT PN4 1 1/4" NPT PN5 2" NPT PT1 Triclover/ Triclamp 1 1/2" PT2 Triclover/ Triclamp 2" PCS Special Process Connection	C4: SS-304 C6: SS-316 CL: SS-316L CS: Special Material	EIUD EIDP EINL EIUSP EIDL EIFS ERUD ERFS	250mm to 3000mm	As specified for ASA / ANSI / JIS / DIN / Custom

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