

# L92 SERIES

## VIBRATING FORK POINT LEVEL SWITCH



### DESCRIPTION

The L92 Series Vibrating Fork Point Level Switch is a heavy-duty stainless steel vibrating fork ideal for measuring the presence of solids and powders across a wide range of media and applications. When materials come into contact with the fork tines, 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. The vibrating fork level switch is 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
- IP 68/66 Ingress Protection (as per IS-13947)
- IP 66 Weatherproof
- Fast Switching Response
- Vibration complied as per IEC 60068 part 2-6
- Low power consumption
- Settable switching delays

## SPECIFICATIONS

Electrical		Other	
<p><b>EIUD / ERUD</b> Supply &amp; Output</p> <p>Relay Type and Rating</p>	<p>Integral / Remote Electronics DPDT Output Universal Power Supply, DPDT Relay Output 15 to 80 VDC and 15 to 260 VAC 50/60Hz</p> <p>Potential Free DPDT Relay Output 5 A each @ 24VDC or 220VAC</p>	<p><b>Sensor Cable</b></p>	<p>Remote electronics require special cable from fork to controller 10 meter standard length (Custom Lengths available on demand)</p>
<p><b>EIDP / ERDP</b> Supply &amp; Output Output Limit</p>	<p>Integral / Remote Electronics for PNP Output 12 to 60 VDC, PNP 250mA max. Short Circuit Safe</p>	<p><b>Min. Density</b></p> <p><b>Ambient Temp.</b> <b>Process Temp.</b> <b>Extended Process Temperature</b></p> <p><b>Process Pressure</b> <b>Wetted Parts</b> <b>Mountings</b></p> <p><b>Extensions Tube</b> <b>Vibration Test</b> <b>Material &amp; Length</b></p>	<p>15 gram/litre for 150mm Fork Length 75 gram/litre for 125mm Fork Length 500 gram/litre for 100mm Fork Length</p> <p>-20°C - 70°C (-4°F - 158 °F) -20°C - 80°C (-4°F - 176 °F) -30°C - 200°C (-22°F - 392°F) (extensions &amp; heat sinks required)</p> <p>NPT / BSP 1", 1 1/4", 1 1/2", 2" etc Flanged : ANSI/JIS/DIN/ASA/custom SS 304, SS 316, SS 316L</p> <p>As per IEC 60068 part 2-6 sinusoidal, 10-55Hz, 0.15mm 125mm to 3,000mm</p>
<p><b>EIUSP / ERUSP</b> Supply &amp; Output</p> <p>Relay Type and Rating</p>	<p>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</p> <p>Potential Free SPDT Relay Output 5 A each @ 24VDC or 220VAC 250mA max. Short Circuit Safe</p>	<h3>Typical Mountings</h3>	
<p><b>EIDL</b> Supply &amp; Output</p> <p>Output Limit</p>	<p>Integral Electronics 4-20mA Loop Powered Two Wire DC 8 / 16 mA 12 to 60 VDC</p> <p>8mA (±1mA max) / 16mA (±1mA max)</p>		

## ORDER GUIDE

### L92 Series

L92	Hxx	Tx	Sx	Gx	Px	Cx	Exxx	Dx	Lxxxx	FLxx
Enclosure	Material Temperature	Sensing Surface Material	Sensor Extension Material	Process Connection Type	Process Connection Material	Electronics (See Page 2 for Description)	Fork Length	Insertion Length	Flange Type and Bore Size	
<b>HAN:</b> Aluminum Non-Hazardous IP-66/68 <b>HAX:</b> Aluminum Flameproof IIa, IIb and IIc <b>HSN:</b> Stainless steel <b>HPN:</b> Polycarbonate (Plastic) <b>HES:</b> Specially designed as per customer requirement	<b>T1:</b> max 80°C <b>T2:</b> max 200°C <b>TS:</b> Customer specified - Special designed	<b>S4:</b> SS-304 <b>S6:</b> SS-316, <b>SL,</b> SS-316L, <b>SS:</b> Special surface	<b>G4:</b> SS-304, <b>G6:</b> SS-316, <b>GL:</b> SS-316-L, <b>GS:</b> Special surface	<b>PFL:</b> Flanged Type (See end of order code) <b>PB1</b> 1" BSP <b>PB2</b> 1 1/2" BSP <b>PB4</b> 1 1/4" BSP <b>PB5</b> 2" BSP <b>PN1</b> 1" NPT <b>PN2</b> 1 1/2" NPT <b>PN4</b> 1 1/4" NPT <b>PN5</b> 2" NPT <b>PT1</b> Triclover/ Triclamp 1 1/2" <b>PT2</b> Triclover/ Triclamp 2" <b>PCS</b> Special Process Connection	<b>C4:</b> SS-304 <b>C6:</b> SS-316 <b>CL:</b> SS-316L <b>CS:</b> Special Material	<b>EIUD</b> <b>EIDP</b> <b>EINL</b> <b>EIUSP</b> <b>EIDL</b> <b>EIFS</b> <b>ERUD</b> <b>ERFS</b>	<b>D1:</b> 150mm <b>D2:</b> 125mm <b>D3:</b> 100mm	250mm to 3000mm	As specified for ASA / ANSI / JIS / DIN / Custom	

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