Bulk Pro Systems
ATEX Approved Tilt Switches





Tilt Switch Probes are electro-mechanical sensors designed to detect the presence or absence of bulk materials at the point of installation. Typical applications include high- and low-level indication, chute plug detection, and monitoring of bulk material conditions on conveyor belts.

Bulk Pro Systems Tilt Switches are available in two construction types to suit different operating environments: a stainless steel body for corrosive applications, and a rugged cast metal housing for heavy-duty service. All ATEX -compliant installations require use of the SL30-115EX control unit.

The SL30-115EX control unit provides comprehensive status monitoring, including tilt (actuated), vertical (normal), fault, and short-circuit conditions. Its dedicated fault relay enables early detection of abnormal conditions,

FEATURES:

- Heavy Duty Industrial Tilt Switch
- Simple Installation and Operation
- Mounting Hardware Included (2 S-hooks & conduit mounting bracket)
- Optional Accessories available

APPLICATIONS:

- High Level Control (Dry Bulk Materials)
- Low level Control (Dry Bulk Materials)
- Flow / No-Flow Detector
- Plugged Chute Detector

SPECIFICATIONS:

Tilt Switch Probes

- Tilt Angle: ~30° from vertical
- Power Supply: 24-48 VDC from Control Unit (required)
- Temperature Rating: -37°F to 176°F (-38°C ~ 80°C)
- SL20 Housing: Cast Iron, Chrome Plated Nickel Finish
- SL24 Housing: 316 Stainless Steel
- Protection Class: IP-68/NEMA-4X
- Cable: 8m (26') Severe Operations Cable, 18 AWG
- Hazardous Area Rating: II 1D Ex ma/ta IIIC T80°C/180°C , Class II, Div. 1 & 2, Groups E, F & G.

Probe Models

- SL23-8EX, Cast Iron, Mercury
- SL24-8EX, Stainless Steel, Mercury
- SL20-8E-NM-EX, Cast Iron, Non Mercury, Photoelectric
- SL24-8E-NM-EX, Stainless Steel, Non Mercury, Photoelectric

Model SL30-115EX Tilt Switch Control

- Temperature Rating: -13°F to 122°F (-25°C ~ 50°C)
- Enclosure Rating: IP-65/NEMA-4X
- Enclosure Type: Die Cast Aluminum
- Alarm Output: One (1) SPDT - 110/220 VAC @ 10Amp, 30 VDC @7 AMP
- Fault Output: One (1) SPDT - 110/220 VAC @ 10Amp, 24 VDC @2 AMP
- Conduit Entries: 2 @ 3/4" NPT
- Alarm Delay Options: 1, 2, 4, or 6 seconds
- Indicator LED Lights: Green (normal), Red (alarm/fault)
- Hazardous Area Rating: II 2D Ex tb IIIC T80°C/180°C, Class II, Div. 1 & 2, Groups E, F & G.

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