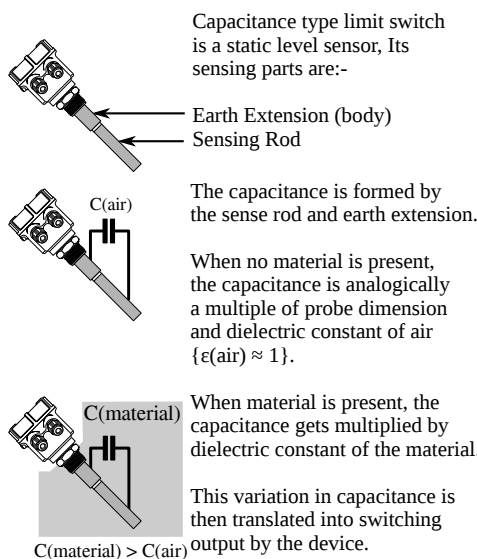


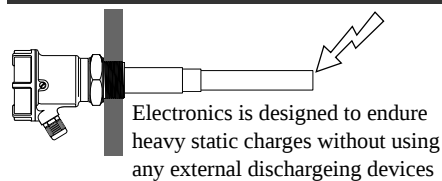
Capacitance Level Switch for Liquids and Powders



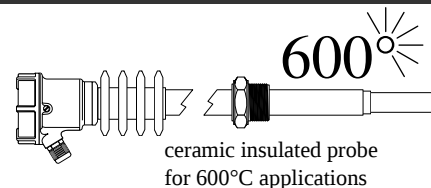
Operating Principle



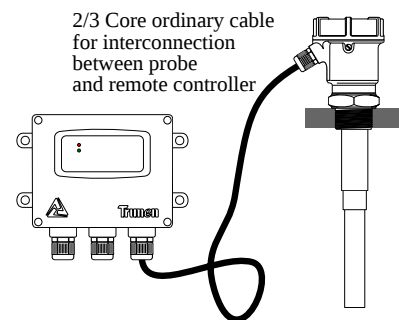
Static Charge Safe



High Temperature Probes



3 Relay Controller



Compact Size

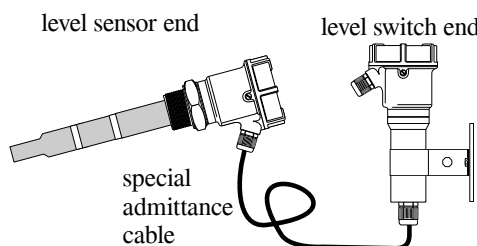
Durable Construction

Easy Installation

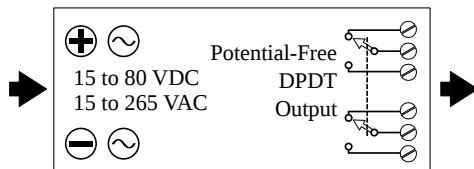
Order Code

- LMC Capacitance Level Switch for Liquids and Powders
- Hxx Enclosure: HAN: Aluminum Non-Hazardous IP-65/68, HAX: Aluminum Flameproof Ila, I Ib and I Ic, HSN: Stainless steel, HES: Specially designed enclosure as per customer requirement
- Tx Material Temperature (T1: max 100°C, T2: max 200°C, T3: max 250°C, T4: max 600°C, TS: Specially designed)
- Rx Sensor rigid/flexible type, RD : Rigid Rod Sensor, RP : Flexible Rope Sensor for Solids (6/12mm), RL: FlexibleRope Sensor for Liquids (2mm), RS : Specially designed sensor)
- Sx Sensing Rod/Rope Material (S4: SS-304, S6:SS-316, SL, SS-316L, SS: Special material)
- Ix Insulation type : I0: None, IP: Partly PTFE insulated, IT: Full PTFE insulated, IC: Partly ceramic insulated,
- Gx Inactive Length or Sensor Extension Material (G0: None, G4: SS-304, G6: SS-316, GL: SS-316-L, GS: special material)
- Wx Stilling Well Material (W0: None, W4: SS-304, W6: SS-316, WL: SS-316-L, WS: special material)
- Px Process Connection Type (PFL: Flanged Type – description of flange - FL -at the end of order code) (PB1: BSP 1", PB2: BSP 1½", PB4: BSP 1 ¼", PB5: BSP 2") (PN1: NPT 1", PN2: NPT 1 ½", PN4: NPT 1 ¼", PN5: NPT 2") (PT1: Triclover/Triclamp 1.1½", PT2: Triclover/Triclamp 2") (PCS: Special Process Connection)
- Cx Process Connection Material (C4: SS-304, C6: SS-316, CL: SS-316L, CS: Special material)
- Electronic Power Supply and Outputs:-
- EIUDD Integral Electronics with Universal supply (15-80V DC & 15-260V AC) & 1 DPDT potential-free relay output
- EIUSI Integral Electronics with Universal supply (15-80V DC & 15-260V AC) & 2 SPDT potential-free relay output suitable for 2 single-point independent level switching
- EIUSP same as EIUSI but suitable for 2 individual pump control (material calibrated hysteresis) switching
- EIUSH same as EIUSI but suitable for 1 single point and 1 pump control (material calibrated hysteresis) switching
- EIDPD Integral Electronics with DC power supply (15-80V DC) & one short circuit safe PNP output
- EIDPI same as EIDPD but with two PNP output, suitable for 2 single-point switching (like EIUSI)
- EIDPP same as EIDPI but suitable for 2 individual pump control (material calibrated hysteresis) switching (like EIUSP)
- EIDL D Integral Electronics with Two wire DC supply with 8/16mA current output suitable for 4-20mA analog inputs
- EIFDS Integral Electronics Specially designed with special output
- ER2RR Remote electronics IP 65 wall mounted with universal power supply (80-260V AC or 18-60V DC) 2xSPDT relay with 10 meter special interconnection cable. ER3RR provides 3 Relays.
- ER2RS Remote electronics IP 65 wall mounted with universal power supply (80-260V AC or 18-60V DC) 2xSPDT relay with 2/3 core shielded ordinary cable upto any length with DC resistance not exceeding 25 Ohm/core
- ER3RS same as ER2RS but provides 3 Relays.
- ERFDS Specially Designed Remote Electronics
- Lxxxx Insertion length (100mm to 3000mm)
- FLxxxx Flange type and bore size specified for ASA/ANSI/JIS/DIN/Custom

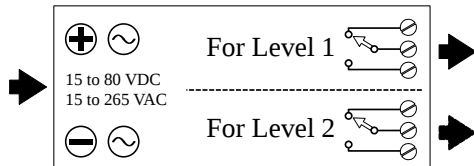
Remote Electronics



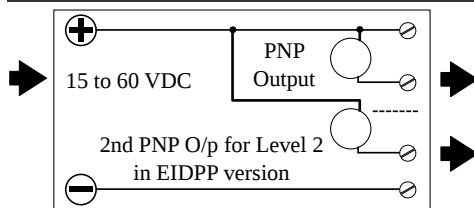
Universal In DPDT Output



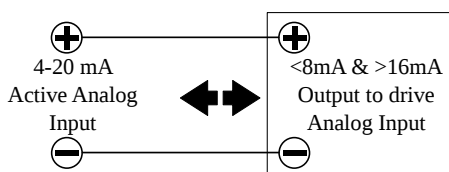
Universal In 2 SPDT Output



PNP with DC Supply



Two wire 8/16 mA Signal



LMC: Capacitance Level Switch for Liquid & Powders

Features

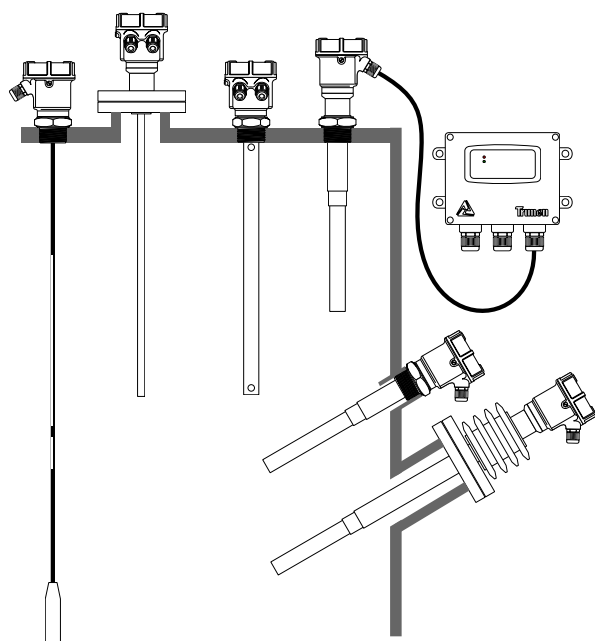
1. Fast Switching Response
2. High temperature endurable probes
3. Single sensor allows pump-control & multi-point switching
4. Easy calibration with or without material
5. Remote electronics with std 10 meters cable length
6. External indication LED available
7. Threaded & Flanged Mountings
8. Electronic Inserts support all requirements
9. Ingress protection : IP 68/65 (as per IS-13947)
10. Ex-proof (Ex d T6 IP-66 IIC)
 - Flameproof as per IS/IEC 60079-1:2007
 - Weatherproof (IP-66) as per IS/IEC 60529:2001
 - Suitable for Gas Group : IIC
 - Suitable for Zone 1 & 2 atmospheres

Applications

Capacitance type level limit switch used as a full, empty and demand alarm in containers, hoppers, silos containing bulks and powders of various types.

Typical applications: water, waste water, cereals, beans, edible oil process, animal feed, rice plants, soya plants, dye powder, chalk, gypsum, fly-ash, cement, sand, plastic granules, spices, milk powder,

Typical Mountings



Specifications

EIUDD Supply & Output	Integral Electronics DPDT Output Single/2 point (Pump) field settable Universal Supply DPDT Out 15 to 80 VDC 15 to 260 VAC 50/60Hz 5 A each @ 24VDC or 220VAC
Relay Rating	
EIUSI Supply & Output	Integral Electronics 2 SPDT Relays for 2 Single point sensing Universal Supply DPDT Out 15 to 80 VDC 15 to 260 VAC 50/60Hz 6 A each @ 24VDC or 230VAC
Relay Rating	
EIUSD Supply & Output	Integral Electronics 2 SPDT Relays for 2 Pump-control Universal Supply DPDT Out 15 to 80 VDC 15 to 260 VAC 50/60Hz 6 A each @ 24VDC or 230VAC
Relay Rating	
EIDPD Supply & Output Output Limit	Integral Electronics for PNP Output Single/2 point (Pump) field settable 15 to 60 VDC, PNP 250mA max. Short Circuit Safe.
EIDPI Supply & Output Output Limit	Integral Electronics with 2 PNP for 2 Single point sensing 15 to 60 VDC, PNP 150mA max. Short Circuit Safe.
EIDPD Supply & Output Output Limit	Integral Electronics with 2 PNP for 2 Pump control 15 to 60 VDC, PNP 150mA max. Short Circuit Safe.
EIDL Supply & Output Output Limit	Integral Electronics 4-20mA Loop Powered single/pump settable Two Wire DC 8 / 16 mA 15 to 60 VDC 8mA (-1mA max) / 16mA (+1mA max)
ERR2R/ERR3R Supply & Output Relay Contact	Remote Electronics Dual / Three SPDT Output, special cable 80-270VAC, 50/60Hz 5 A each @ 24VDC or 220VAC
ERS2R/ERS3R Supply & Output Relay Contact	Remote Electronics Dual / Three SPDT Output, normal shielded cable 80-270VAC, 50/60Hz 5 A each @ 24VDC or 220VAC
Sensor Cable (Special)	Enclosure for Remote Electronics is IP-65 and probe is IP-68
Sensor Cable (Shielded)	Remote electronics require special cable from probe to controller. 10 meter standard length more available on demand Ordinary 2/3 core shielded cable as probe contains sensor unit.
Min. Dielectric Constant	1.6 (non-hygroscopic)
Ambient Temp.	-20°C ... 60°C (-4°F ... 140 °F)
Process Temp.	-20°C ... 100°C (-4°F ... 212 °F)
Extended Process Temperature	PTFE Insulation: -30 °C ... 250 °C (-22 °F ... 482 °F) Ceramic Insulation: -30 °C ... 600 °C (-22°F ... 1,112 °F) (extensions & heat sinks required)
Process Pressure	absolute / max. 15 bar
Wetted Parts	SS-304, SS-316, SS-316L, PTFE, part ceramic
Process Connection	NPT / BSP 1", 1¼", 1½", 2" etc Flanged : ANSI/JIS/DIN/ASA/custom
Probe Insertion Length:	Rigid Rod : 50mm to 3,000mm Flexible Rope : 100mm to 20,000mm

Specifications are subject to change without prior notice