

Capacitance Level Indicator

ILK



PRECISE, RELIABLE, HIGH PRESSURE RESISTANT CAPACITANCE LIMIT DETECTION FOR ALL SOLIDS APPLICATIONS AND MATERIAL RESIDUES

When the material is present near the probe, the electronic module detects the capacitance variation of the volume around the probe and switches the electro-mechanical contact.

Features

- Product sensitivity: Dielectric constant (Dk) > 1.6; max. grain size 30 mm
- Power supply: 21...27 V DC ($\pm 10\%$) ; max. 1.5 W
- Signal Output: Floating relay SPDT AC max. 250 V, 3 A non inductive DC max. 30 V, 5 A non inductive
- Standard connection: G 1 1/2" - G 2 1/2"
- Enclosure: IP66
- Working temperature inside vessel
- 40°C ~ + 100°C (up to +120°C if ambient temp. is lower than 50°C)
- Ambient temperature - 40°C ~ + 60°C
- Max. process pressure: 16 bar
- Threaded fitting and probe material: glass fibre reinforced plastic G 1 1/2" – G 2 1/2"
- Casing material: aluminium alloy
- Adjustable signal delay from 0.5 s to 20 s
- Adjustable signal output logic



Threaded Bushes
Made from carbon steel, can be supplied to be welded on to the silo/hopper for quick installation of the ILK

Thread: 1" 1/2 ISO 228
Thread 2" 1/2 ISO 228

SENSING PROBE



THREADED FITTING



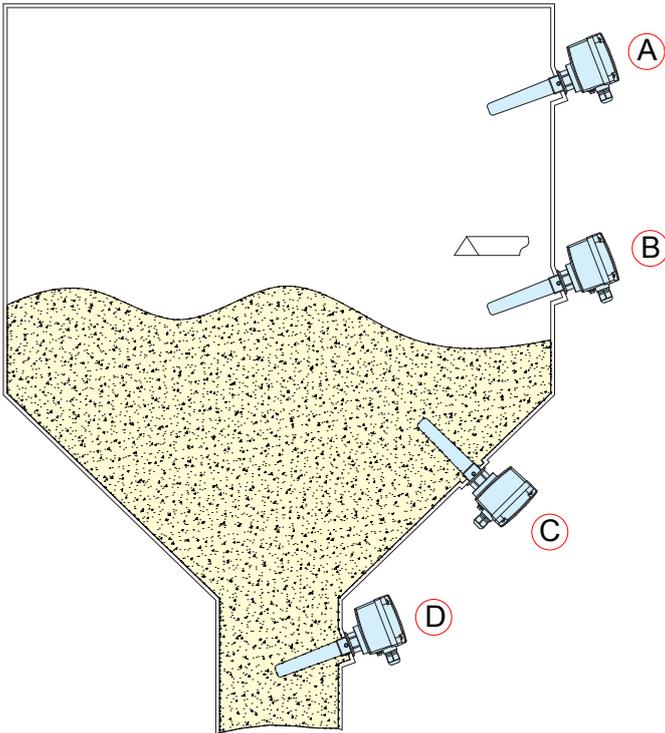
HOUSING



Thread: 1" 1/2 ISO 228
Thread 2" 1/2 ISO 228

Benefits

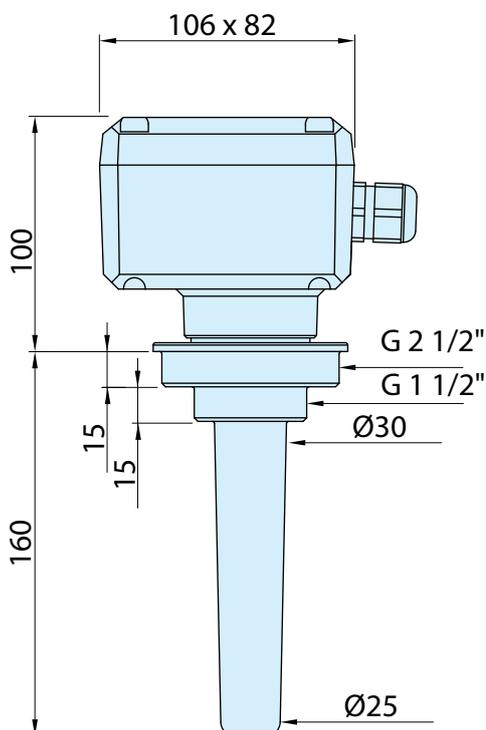
- ✓ Simple and reliable construction, as no moving parts are present;
- ✓ No product in contact with the casing;
- ✓ Suitable for extremely light materials;
- ✓ Factory pre-calibrated allowing measurement for most applications with no calibration on-site;
- ✓ Four Ranges Adjustable Sensitivity;
- ✓ Double threaded fitting ensures system compatibility;
- ✓ Easy and quick installation and replacement.



VARIOUS MOUNTING POSITIONS

- A) Full Detector horizontal or oblique
- B) Demand or Empty Detector horizontal or oblique
- C) Empty Detector oblique from the bottom
- D) Empty Detector in silo outlet

Overall Dimensions



TOREX SpA <small>V. 41030 S. Prospero (MI) www.torex.it</small>		
ILK00		
SN 0100123078 28.03.2012	Length 145/180mm	
Supply 21...27V DC 1.9W	T (amb) -40°C...+40°C	
Output max. 250V AC 3A max. 30V DC 5A non inductive	T (process) Δ 40°C...+120°C	
	P (process) max. 18 bar	

Application



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