

CAPACITANCE LEVEL POSITION DETECTOR (PiCap)

PRINCIPAL

PiCap is microcontroller based, working on ultra high frequency principal, capable of detecting metallic and non-metallic objects at distances, reliably and efficiently. PiCap sensitivity is factory set to detect most of the available substances in common Industrial applications. Since the detection range depends on the dielectric constant of the media and the nearness of objects surrounding the installation; in special cases, the sensitivity may need adjustment. The detection distance can be set by non contact magnetic switch for a desired distance within the PiCap limits.



Features

- Digital sensing, digital setting Available in metal housing
- Flush or non-flush types
- Long sensing range
- - Nousting and impained for most of the
- Non contact magnetic key provided for sensitivity adjustment in typical applications
- Current limited universal transistor output as standard (PNP/NPN -field selectable)
- Reverse polarity and transient voltage protected
- Selectable Fail-safe High or Low mode
- Built-in LED indicators for Status, Alarm and Normal operation

Applications

Suitable for very low dielectric constant material.

Technical Specification

Sensing range (Sd)	:1.0 to 30 mm, factory set at
	15 mm
Sensitivity	:Adjustable via magnetic key
Effective operating	
distance (Sr)	:0.9 X Sn ≤ Sr ≤ 1.1 X Sn
Usable operating	
distance (Su)	:0.8 X Sr ≤ Su ≤ 1.2 X Sr
Repeat accuracy (R)	:≤ 5%
Rated operational	
current (le)	: ≤ 100 mA (continuous)
No load supply current (Io): ≤ 12 mA	
Voltage drop (Ud)	:≤2.5 VDC @ max. load
Protection	:Short-circuit, reverse polarity,
	transients
For status	:Green LED
For Alarm	:Red LED
Environment	

- Food Grains and plastic pellet detection
- Object detection and counting
- Level control / monitoring through a sight glass / non-metallic window
- Liquid level detection in non-metallic containers ٠

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An ISO 9001-2008 C E Certified Company Shed No. 7, Nanekar Industries Building, Survey No. 79/2, Dangat Industrial Estate, Shivane, Pune - 411 023, India Contact No. : 07447401743 Email : jayceetech@gmail.com Website : WWW.jayceetech.com Operating temperature :0 to +60 deg. C Housing material :Body and check-nut, metallic