Capacitive proximity sensor VL2C series

Capacitive proximity sensors series - Ø6.5 size

Highlights

CAPACITIVE SENSORS

Designed to work in different applications for detection of metallic and non-metallic objects; for control of fluid or solids level in non-transparent bottle or reservoir with or without product contact trough the reservoir material. Capacitive proximity sensors are ideal for level and feed monitoring. From solid material, such as paper or wood, to granules or liquids, they reliably detect the status of the product during the production process and final inspection.

These sensors are having high immunity when working in harsh condition of dust, high moisture and other circumstances and widely use in a wide range of industries, such as food and beverage, automotive, printing and packing in conveyor systems.

Continuous level measurement and temperature measurement Measurement irrespective of container material

Display and intuitive menu navigation No mechanical moving parts

No dead zone along the measuring range

Rectangular or tubular housing options Detects powders, granulates, liquids and solids

Extremely high electromagnetic compatibility

High temperature stability versions available Hygienic sensors enclosure available

STANDART

All inductive proximity sensors conform to IEC 60947-5-2.

HOUSING MATERIAL

The housing material of sensor including nickel plated copper, stainless steel and plastic with resistance of compression and temperature rapid change. Most of square sensor is plastic housing. These materials can also be used to produce square sensors with adjustable sensing surface or compact (small square) sensors. Such sensors can be used in the occasions of limited installation space or required large detection range



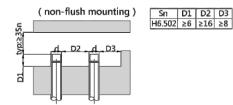
Capacitive proximity switch is a low cost method for non-contact detection of multiple objects types, capacitive sensors is very useful for non contact level switch and many other types applications which is widely used in the following sectors, such as:

- Chemical Industry
- Plastic production industry - Machine tool sector
- Robot industry
- Conveyor systems
- Paper and printing industry
- Food industry

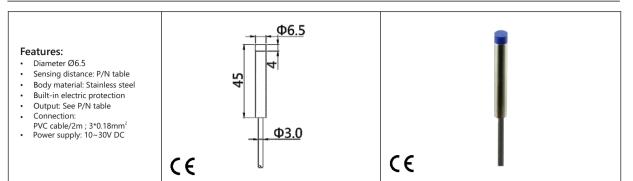
■ P/N table

Sensing distance	Sn: 2mm	
NPN , NO	VL2C-NF6.5N-2NO-2M	
NPN , NC	VL2C-NF6.5N-2NC-2M	
PNP , NO	VL2C-NF6.5P-2NO-2M	
PNP , NC	VL2C-NF6.5P-2NC-2M	

■ Installation



Product parameters



TECHNICAL INFORMA	TION		
INDUCTIVE SPECIFICATION			
	Sensing Distance	See P/N table	
	Correction Factor	Material Factor Water 1 Alcohol 0.7 Ceramic 0.6 Glass 0.5 Oil 0.3	
	Mounting	Non Flush type installation	
	Switching Histeresis	< 10%	_
ELECTRICAL DATA			
	Operating Voltage	10~30V DC	
	Switching Frequency	100Hz	
	Voltage Drop	≤ 2.0V DC	_
	Leakage Current	< 0.01mA	_
	Load Current	100 mA	
	Load Current	≤ 10 mA (24v)	
	Hysteresis	< 15% (Sr)	
	Repeatability	< 5.0% (Sr)	
	Temperature Drift	< 10% (Sr)	
	Short Circuit Protection	Yes	
	Overload Protection	Yes	
	Polarity Reversal Protection	Yes	
ENVIRONMENT DATA			
	Ambient Temperature	-2570 ℃	
	Ingress Protection	IP67	
MECHANICAL DATA			
	Housing Material	Stainless steel	
	Face Material	PBT	
ELECTRICAL CONNECTION D	ATA		
	Connector	PVC cable/2m ; 2*0.25mm²	
ACCESORIES			
	Cable	Two meter straight cable (P/N: V5PN-SM8302OF) (avail-	able
	Cable	Ten meter straight cable (P/N: V5PN-SM8310OF) (availa	able
	Connector	M8, 3 PIN, Male type, IP67, Straight, Female, Screw connection (P/N: EAM8MC3001A) (available)	

■ Input/Output circuit

