

# NC30 SERIES

## Non-Contact Liquid Level | Flow Switch

- ✓ Non-Contact
- ✓ Senses through Wall
- ✓ Relay Output



### Conductive and Non-Conductive Liquids

The NC30 Non-Contact Liquid Level | Flow Switch has been designed using high frequency technology to sense the presence of liquid — conductive | non-conductive.

Suitable for Non-Metallic Tubing | Tanks | Drums | Pipe.

### Featuring:

- ✓ All Plastic PP Design
- ✓ Non-Intrusive Liquid Level | Flow Detection through Plastic or Fiberglass Walls
- ✓ Small Footprint | Easy to Install
- ✓ Visual LED Liquid Presence Indication
- ✓ M8 Connection or Fixed Cable Connector
- ✓ Fits on ½" - 2" Pipe Diameter | Sch 40 | 80
- ✓ Senses up to 0.3" | (8mm) Wall Thickness

### Technical Specifications

Supply Voltage		6-30VDC
Supply Current	Output type: PNP Pulse	Max. 0.6   7mA (OFF/ON State)
	Output type: Relay — 2-Wire Switch	Max. 0.6mA (OFF State)
Switched Current (Min / Max)	Output type: PNP Pulse	100mA
	Output type: Relay — 2-Wire Switch	3.3mA   40mA
Remanent Voltage – ON State	Output type: PNP Pulse	1.8 V
	Output type: Relay — 2-Wire Switch	6.0 V
Switching Frequency		Max. 1 Hz
Max. Thickness of the Vessel Wall	– Conductive liquids	0.3"   (8 mm)
	– Non-conductive liquids with $\epsilon_r < 10^*$	0.11"   (3 mm)
Ambient Temperature Range		-4 to 176°F   -20 to 80°C
Temperature Range at the Tube or Vessel Surface		-4 to 194°F   -20 to 90°C
Housing Material		Plastic (PP)
Protection Class		NEMA 4X   IP67
Cable Connection		PVC
Weight (Including 2 m Cable)		Approx. 60 g

### Model Selection

NC30 — Liquid Level   Leak Detection			
Part Number	Mount	Output	Application
NC30-10-C-S	V	Relay — 2-Wire Switch	V design sensing electrode face for piping and tubing applications.
NC30-10-C-P	V	PNP Pulse	V design sensing electrode face for piping and tubing applications.
NC30-11-C-S	Flat	Relay — 2-Wire Switch	Flat electrode for installation on drums and tanks.
NC30-11-C-P	Flat	PNP Pulse	Flat electrode for installation on drums and tanks.

\*M8 Connection (Std) Consult Factory for Flying Lead Cable.

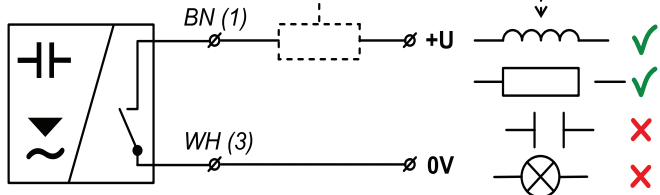


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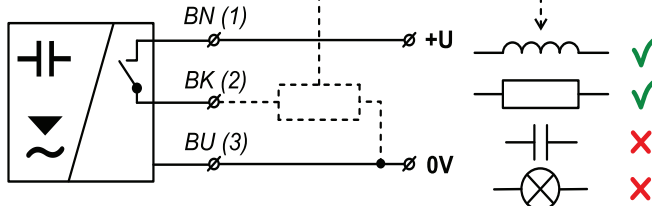
## Non-Contact Liquid Level | Flow Switch

### Electrical Connection

**NC30-10**



**NC30-11**



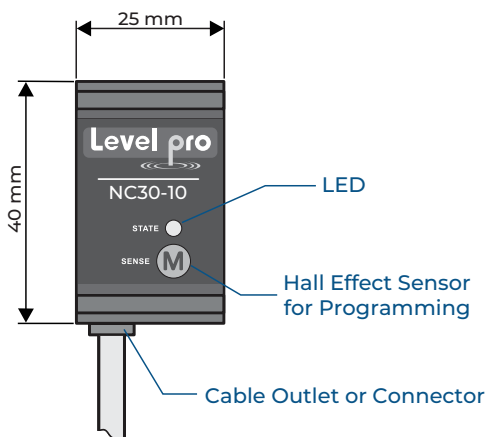
**NOTE:**

The sensor output is short circuit protected.  
Shielded cable is recommended.

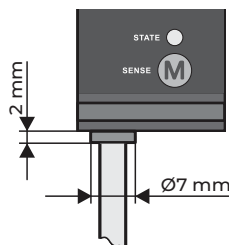
**LEGEND:**

- BN - Brown
- WH - White
- BU - Blue
- BK - Black

### Dimension Drawings



**Variant "A" with Cable Outlet**



**Variant "C" with Connector**

