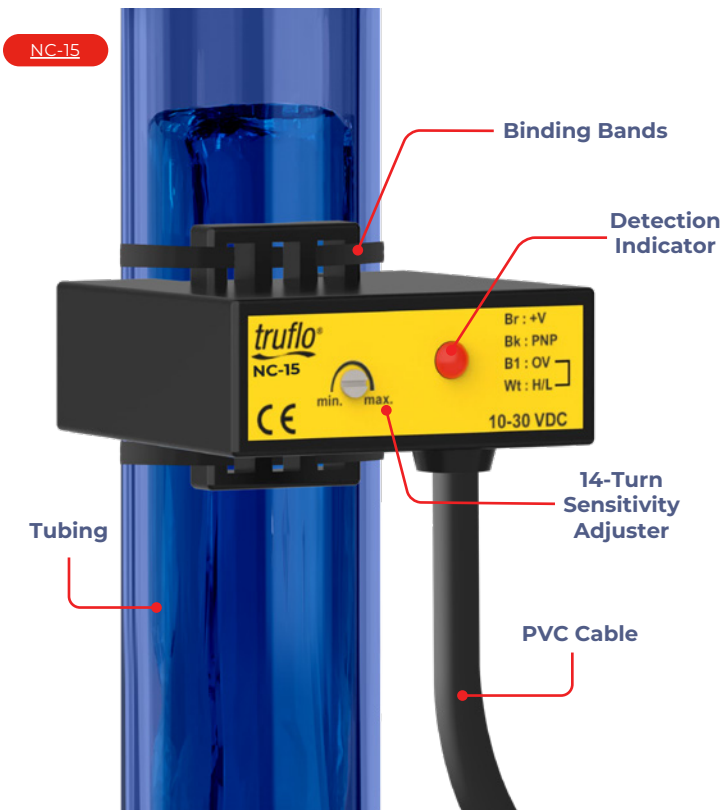


# Truflo® – NC-15 | NC-25 SERIES

## Non-Intrusive Flow | Level Switch

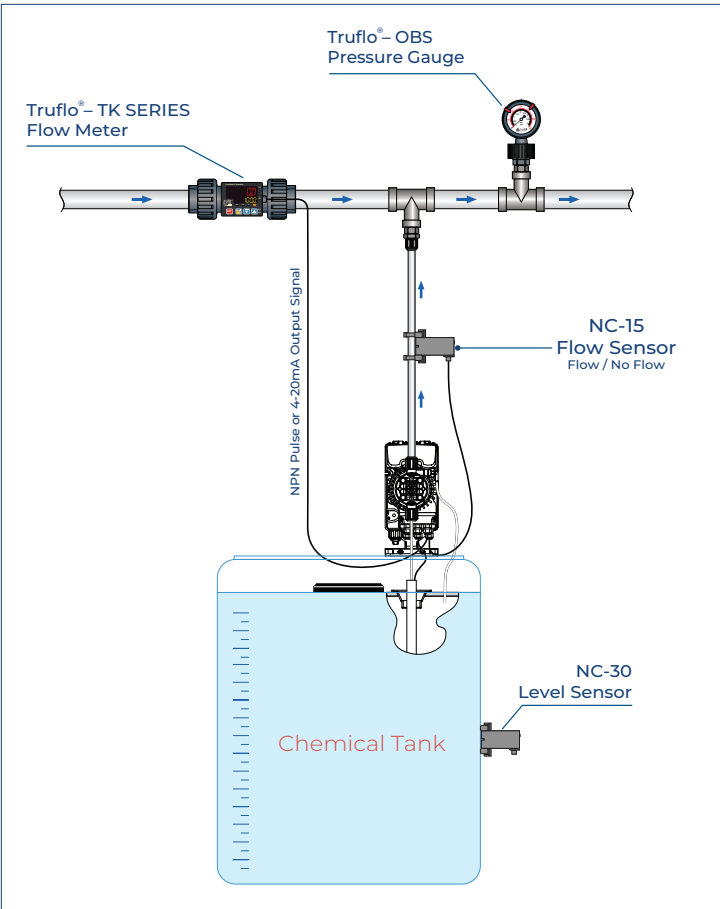
- ✓ All Plastic Design
- ✓ Excellent Chemical Resistance
- ✓ No Pressure Drop



### Featuring:

- ✓ Senses Liquid through Tubing
- ✓ Tubing Size: 1/4" | 3/8 | 1/2"
- ✓ Flow | No Flow
- ✓ Non-Intrusive
- ✓ Air Bubble Detection
- ✓ All Plastic Design
- ✓ Simple to Install
- ✓ Heavy Walled Tubing | 0.25"
- ✓ Lightweight
- ✓ Very Accurate | Sensitivity Adjustment
- ✓ Perfect for Dosing or Metering Pumps

### Typical Application



### Model Selection

| NC-15   NC-25 — Liquid Level   Leak Detection |          |                          |
|-----------------------------------------------|----------|--------------------------|
| Part Number                                   | Material | Method                   |
| NC-15                                         | PBT      | Electrostatic Capacitive |
| NC-25                                         | PBT      | Photoelectric*           |

\*Tubing must be transparent.

# Truflo® – NC-15 | NC-25 SERIES

## Non-Intrusive Flow | Level Switch

### Technical Specifications

|                                                   |                  |                                                                           |
|---------------------------------------------------|------------------|---------------------------------------------------------------------------|
| Diameter                                          |                  | ¼" – ⅜" – ½"   (7 - 13 mm)                                                |
| Wall Thickness                                    |                  | Up to 0.25"                                                               |
| Sensing Object                                    |                  | Liquid                                                                    |
| Repeat Accuracy                                   |                  | ±0.2 mm max.                                                              |
| Power Supply Voltage<br>(Operating Voltage Range) |                  | 12 - 24VDC   10% max. ripple   (10.8 - 30VDC)                             |
| Current Consumption                               |                  | 12mA max.                                                                 |
| Relay Output                                      | Load Current     | NPN   PNP (100mA max.)                                                    |
|                                                   | Residual Voltage | 1 V max. (Load current: 100 mA   Cable length: 2 m)                       |
| Sensing Liquid Position                           |                  | Indented mark position                                                    |
| Indicators                                        |                  | Detection indicator (Orange)                                              |
| Ambient Temperature Range                         |                  | Operating: 32 to 131°F   0 to 55° C (with no icing or condensation)       |
|                                                   |                  | Storage: -10 to 65°F   -10 to 65° C (with no icing or condensation)       |
| Ambient Humidity Range                            |                  | Operating   Storage: 25% to 85% (with no condensation)                    |
| Temperature Influence                             |                  | ±4 mm of detection level at 73°F   23°C in the temperature                |
|                                                   |                  | Range of 32 to 131°F   0 to 55°C (with pure water or 20% saline solution) |
| Dielectric Strength                               |                  | 500VAC, 50/60 Hz for 1 min between current-carrying parts and case        |
| Degree of Protection                              |                  | IP66 (IEC)                                                                |
| Connection Method                                 |                  | Pre-wired Models (standard cable length: 2 m)                             |
| Weight (Packed State)                             |                  | Approx. 70 g                                                              |
| Materials                                         | Case   Cover     | Heat PBT                                                                  |
|                                                   | Cable Clamp      | Nylon                                                                     |
| Accessories                                       |                  | Two bands                                                                 |

\* Stable detection will not be possible in the following cases. Confirm detection capability with the Sensor installed before actual application.

#### Note:

1. If the specific inductive capacity or the specific electric conductivity of the liquid is too low, the liquid position may not be detected since this sensor is a capacitive sensor.
2. If the quantity of liquid is too low or the change in quantity is too low in comparison to the change in liquid level because the pipe is too thin or the walls of the pipe are too thick.
3. If there is a viscous film on the inner pipe wall, large quantities of foam or air bubbles, or excessive buildup of dirt on the inner pipe wall.