

NC-15 | NC-25 SERIES

Non-Intrusive Flow | Level Switch

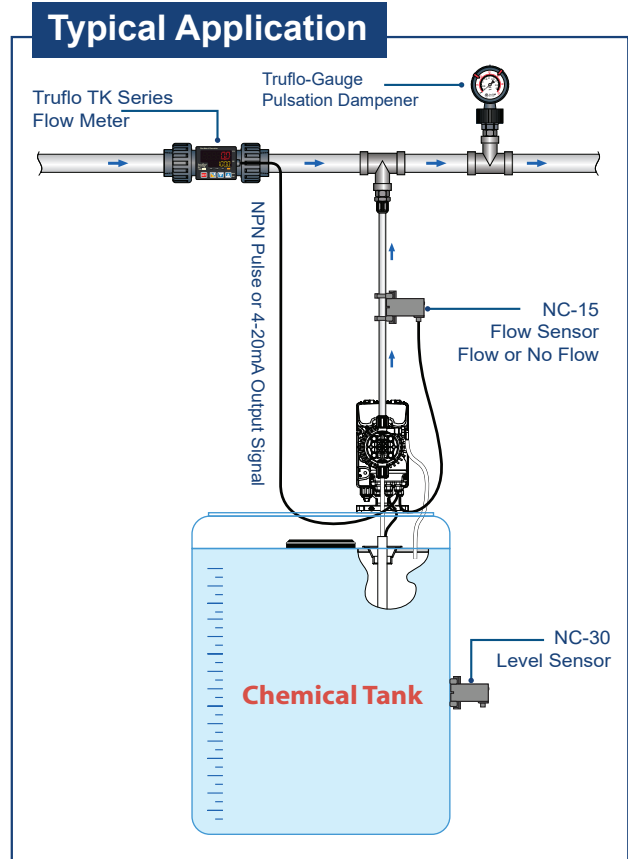
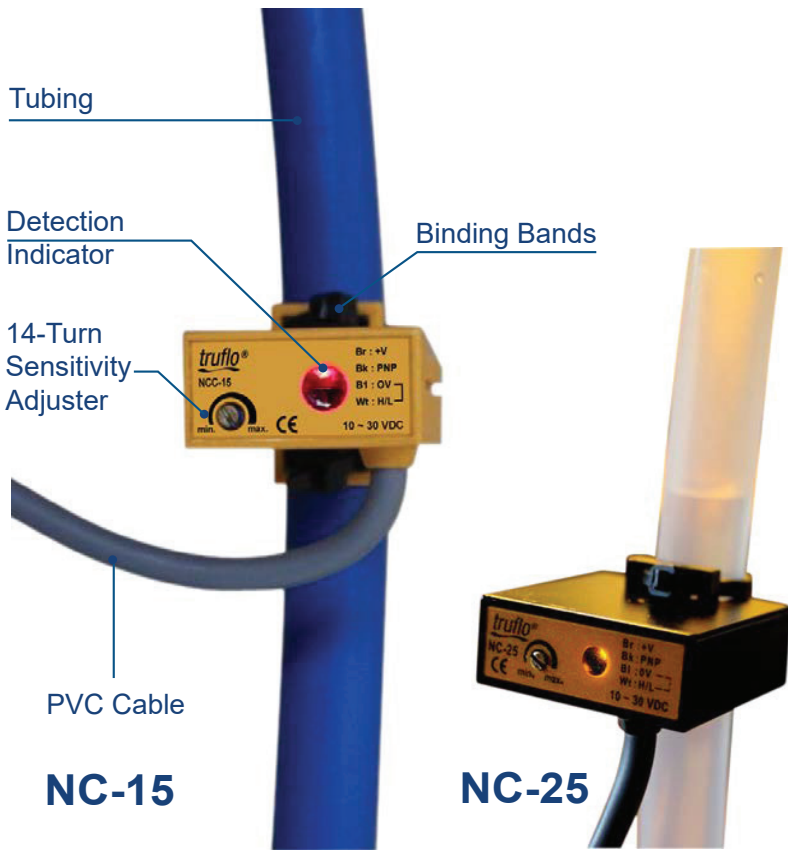


- ✔ All Plastic Design
- ✔ Excellent Chemical Resistance
- ✔ No Pressure Drop

PC

RoHS Compliant

SERIES : NC-15
SERIES : NC-25



FEATURES
<ul style="list-style-type: none"> ✔ Senses Liquid through Tubing ✔ Tubing Size 1/4" to 1/2" ✔ Flow No Flow ✔ Non-Intrusive ✔ Air Bubble Detection ✔ All Plastic Design ✔ Simple to Install ✔ Heavy Walled Tubing Up to 0.062" ✔ Lightweight ✔ Very Accurate Sensitivity Adjustment ✔ Perfect for Dosing or Metering Pumps

ORDERING INFORMATION			
Sensing Method	Applicable Tube Diameters	Appearance	Output Configuration
Electrostatic Capacitive Method	1/4" - 1/2"	 NC-15	NPN PNP Output
Photoelectric Method	1/4" - 1/2"	 NC-25	NPN PNP Output

Ratings and Specifications

Applicable Pipes Size	Materials	PolyCarbonate
	Diameter	3/8 - 1/2" (7 to 13 mm)
	Wall thickness	0.62"
Sensing Object		Liquid
Repeat Accuracy		±0.2 mm max.
Power Supply Voltage (operating voltage range)		12 to 24VDC 10% max. ripple (10.8 to 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: 0 to 55°C (with no icing or condensation), Storage: -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 23°C in the temperature Range of 0 to 55°C (with pure water or 20% saline solution)
Voltage Influence		±0.5 mm of detection level at the rated voltage in rated voltage ±10% range
Insulation Resistance		50 M Ω min. (at 500VDC) between current-carrying parts and case
Dielectric Strength		500VAC, 50/60 Hz for 1 min between current-carrying parts and case
Vibration Resistance		Destruction: 10 to 55 Hz, 1.5-mm double amplitude for 2 hours each in X, Y, and Z directions
Shock Resistance		Destruction: 500 m/s ² 3 times each in X, Y, and Z directions
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-resistant PC
	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.