

Level Sensor

TK-010N2 TK-015N2 Series

Detecting Liquid in the Tubings
No physical contact with liquid
Easy to install on the Tubings
Excellent Cost Performance

CE Mark Compliance 
UL Recognized Products 
EU-RoHS Compliance 

Non-contact Liquid Detection

Installed easily with no tools

Free from color or dielectric factor

TK-010/015N2 Series Sensor is an optical-electric device to detect the liquid in transparent or semi-transparent tubings, being installed at the outer wall of tubing. The installation job is very simple using the attached bracket and nuts, anywhere place you can fix the sensor to detect if the liquid exists, or not. Namely this versatile device can be used for liquid level sensor as shown at a left photo.

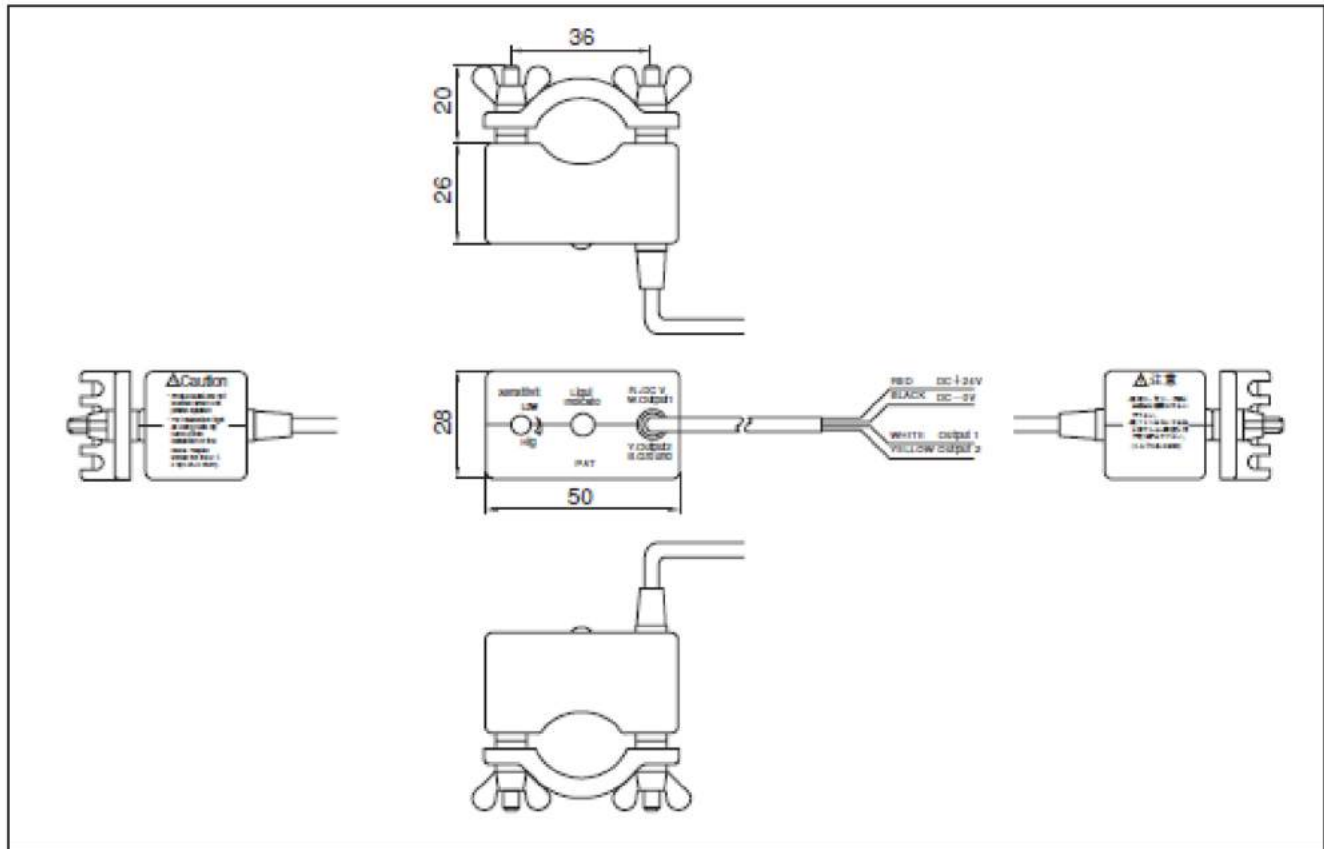
Because non-contact detecting method is the principle of optical physics, almost every liquid can be detected without influence of complex adjustment procedure for dielectric factor nor color, density, etc. Free from contamination by contact with media liquid is also a strong point of the design of TK-010/015N2 sensor.

For highly reflecting solution, such as slurry mixture, -S1 model is provided in this optical-electric sensor family for the properly expanded application.



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■ Dimensions (unit: millimeter)



■ Specifications

Model	TK-010N2	TK-015N2	TK-010N2-S1	TK-015N2-S1
Media Liquid	for General Liquid		for Sullury solution, etc	
Voltage	DC24V \pm 10%			
Current	45 mA or below			
Applicable Dia. of Tubings	ϕ 6 - 25.4 mm OD		ϕ 10 - 25.4 mm OD	
Detection Method	Infrared optical electric device			
Output	Open Collector Output, 50 mA max, dual lines			
	NPN Transistor	PNP Transistor	NPN Transistor	PNP Transistor
Ambient Temperature	-10 deg C to 60 deg C			
Water Protect	Silicon Stuffed			
Material of Body Case	Poly carbonate resin			
Material of Bracket	Poly carbonate resin			
Cable	ϕ 3.8mm, 4-wire, 2 m		ϕ 3.8mm, 4-wire, 3 m	
Weight	approx 100g			

DUE TO CONTINUOUS PRODUCT IMPROVEMENT, THE DESIGN AND TECHNICAL SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT PRIOR NOTICE.

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