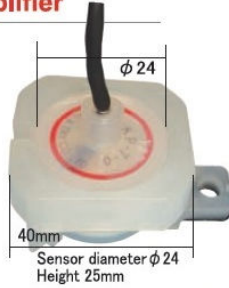


KP Series

Liquid detection sensor.
Optical interlock function for sensor separation from bracket.
Main unit PP material finished. **Built-in amplifier**

KP- [7-□
9-□-R
(A) (B)

- (A) 7→No inter-lock
9→Inter-locked
- (B) C→A type (Normally Open)
O→B type (Normally Closed)



Detecting Method	Infrared Photo-reflector
Detecting Output	Transistor Output A type: normal Open B type: Normal Close 50mA MAX
Response Time	0.5 to 1Sec. (Pure Water)
Power Supply	12 to 24 VDC
Consumption Current	Under 25mA
Indicator	LED Turns Green, Detecting LED Turns Red as normal
Ambient temperature	-10 to 60°C
Weight	Approx.20g (Excluded the Cable)
Material	P.P (Polypropylene)
Cable	2Core Shield Cable (Material PVC)
Cable Color	Red: Power Supply White: Output+ Shield: GND Common

LUP Series

PNP output type available. Liquid detection sensor.
Main unit finished PP material.

Built-in Amplifier

LUP-P-□-2M [-R
(A) [-PNP
(B)



- (A) A→A type (Normally Open)
B→B type (Normally Closed)

- (B) R→NPN output
PNP→PNP output

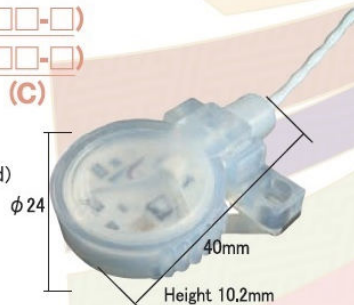
Detecting Method	Infrared Photo-reflector
Detecting Output	Transistor Output A type: normal Open B type: Normal Close 50mA MAX
Response Time	0.5 to 1Sec. (Pure Water)
Power Supply	12 to 24 VDC
Consumption Current	Under 25mA
Indicator	LED Turns Green, Detecting LED Turns Red as normal
Ambient temperature	-10 to 60°C
Weight	Approx.20g (Excluded the Cable)
Material	P.P (Polypropylene)
Cable	2Core Shield Cable (Material PVC)
Cable Color	Red: Power Supply White: Output+ Shield: GND Common

TFP-T Series

Available PNP output. **Built-in amplifier**
Resistance to chemicals, hazardous liquid as safety sensing.
Main unit PFA material finished.

TFP-T-□-2M [-R (□□-□)
(A) [-PNP (□□-□)
(B) (C)

- (A) A→A type (Normally Open)
B→B type (Normally Closed)
- (B) NPN→NPN output
PNP→PNP output
- (C) Select holders
OP-1→TH-C OP-3→TH-CR
OP-2→TH-B OP-4→TH-BR



Detecting Method	Infrared Photo-reflector
Detecting Output	Transistor Output A type: normal Open B type: Normal Close 50mA MAX
Response Time	0.5 to 1Sec. (Pure Water)
Power Supply	12 to 24 VDC
Consumption Current	Under 25mA
Indicator	LED Turns Green, Detecting LED Turns Red as normal
Ambient temperature	-10 to 60°C
Weight	Approx.20g (Excluded the Cable)
Material	P.P (Polypropylene)
Cable	2Core Shield Cable (Material PVC)
Cable Color	Brown: Power Supply Black: Output+ Blue: GND Common