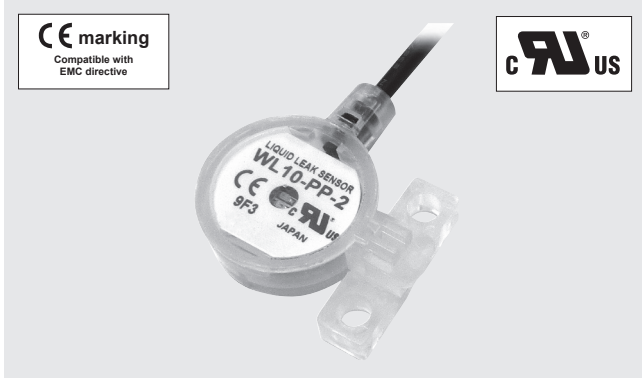


# LIQUID LEAK SENSORS

# WL10

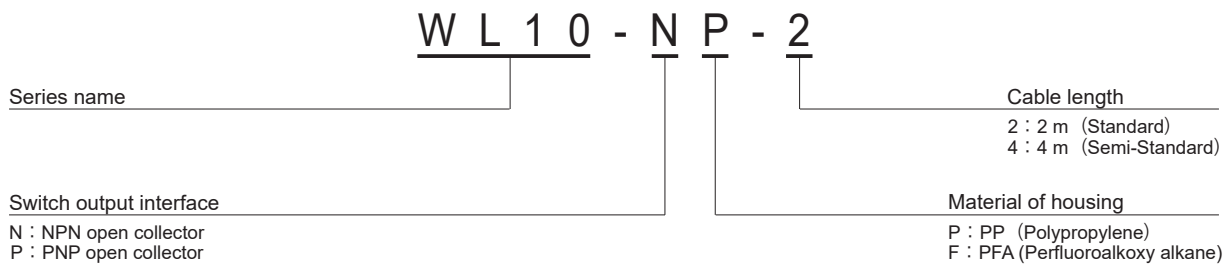


## FEATURES

- Operable in various area thanks to unique optical technology
- Can detect leakage without a douser and additional amplifying circuit
- PFA casing available for detecting leakage of corrosive liquid
- Compact and Slim size (  $\phi$  25 mm, t = 10 mm)
- Lead-free Soldering, UL standard, CE Marking

INTERNAL STRUCTURE (PP type)		Part name	Material
①	Housing	PP	PP
②	Cover		
③	Mounting plate		
④	Sealing cap	Glass-Epoxy	Glass-Epoxy
⑤	P.C. board		
⑥	Label	Polyester film	Polyester film
⑦	Photo-interrupter	—	—
⑧	Cable	PVC	PVC

## MODEL NUMBER DESIGNATION



## LIST OF MODEL NUMBERS

		Model number			
		NPN		PNP	
Switch output interface		NPN		PNP	
Material of housing		PP	PFA	PP	PFA
Cable length	2 m	WL10-NP-2	WL10-NF-2	WL10-PP-2	WL10-PF-2
	4 m	⊕ WL10-NP-4	⊕ WL10-NF-4	⊕ WL10-PP-4	⊕ WL10-PF-4

※Verify the above model numbers when placing orders.  
 The products marked ⊕ are manufactured upon receipt of order basis.

# WL10

## LIQUID LEAK SENSORS

### STANDARD SPECIFICATIONS

● Unless otherwise specified, the specs are defined at an ambient temperature of  $25 \pm 5$  °C and excitation voltage of 24 VDC.

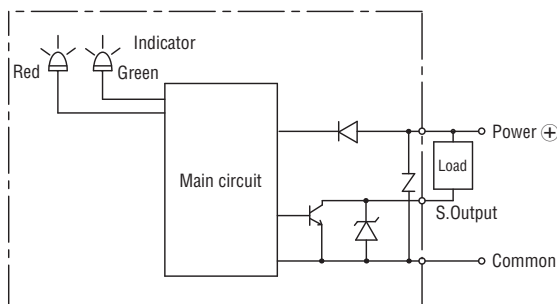
Item	Model number	WL10	
		NPN	PNP
General specifications	Operating temp. range	°C - 10 ~ 60	
	Operating humidity	%RH 35 ~ 85(No condensation)	
	Storage temp.	°C - 20 ~ 70(Atmospheric pressure, humidity 65 %RH maximum)	
	Pressure medium	Water (PP) / Corrosive fluids compatible with PFA	
	Material of housing	PP/PFA	
	Net weight	g	Approx. 30 (WL10- * P-2)
Power	Supply voltage	VDC 12 ~ 24 $\pm$ 10 %	
	Consumption current	mA maximum 10 (Except open collector output)	
Output	Switching capacity	Voltage endurance : 30 VDC Sink current : 50 mA maximum (Over current protection)	Voltage endurance : 24 VDC Sourced current : 50 mA maximum (Over current protection)
	Residual voltage	V maximum 1.0 V maximum	2.0 V maximum
	Operation grade	Normal condition : Switch output is ON / Green LED is ON Leakage detection : Switch output is OFF / Red LED is ON	

### ENVIRONMENTAL CHARACTERISTICS

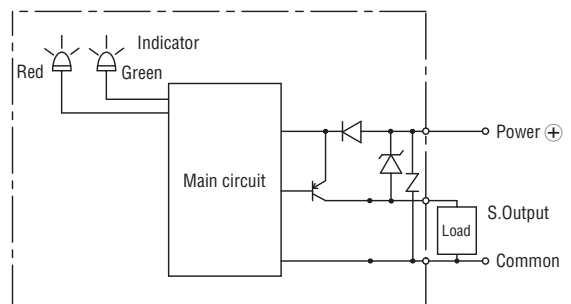
Test item	Test conditions	Specification
Vibration	10 ~ 500 Hz, 1.5 mm maximum / 98.1 m/s <sup>2</sup> , 3 directions for 2 hours each	Meets standard specifications
Shock	490 m/s <sup>2</sup> , 3 directions for 3 times each	
Protection grade	IP67	
EMC	EMI : EN55011: 2007, A2 : 2007 Group 1, class B EMS : EN61326-1: 2006 Table 2	

### INTERNAL ELECTRICAL SCHEMATICS

#### ● NPN



#### ● PNP



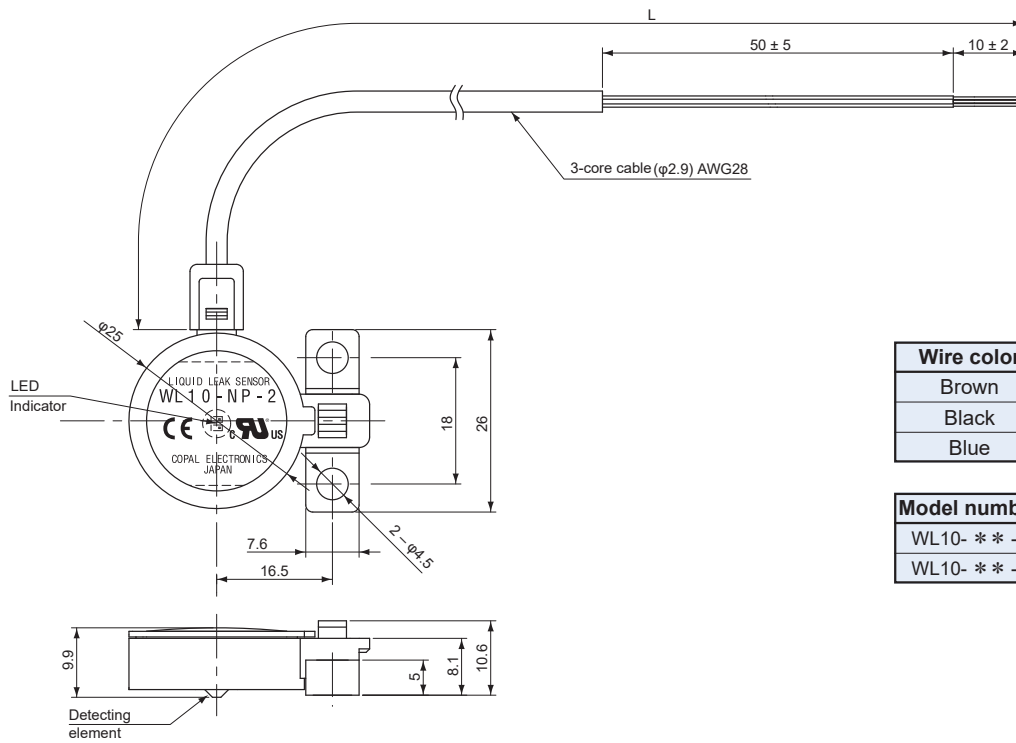
# WL10

## LIQUID LEAK SENSORS

### OUTLINE DIMENSION

Unless otherwise specified, tolerance:  $\pm 0.5$  (Unit: mm)

#### Material of housing - PP



Wire color	Connection
Brown	Power ⊕
Black	Output
Blue	Common

Model number	Cable length
WL10-**-2	2000 ± 100 mm
WL10-**-4	4000 ± 200 mm

#### Material of housing - PFA

