

LIQUID LEAK SENSORS

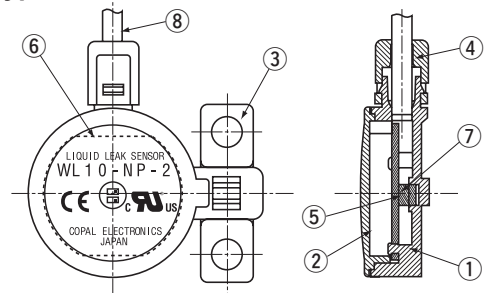
WL10



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 (ϕ 25 mm, t = 10 mm)
- Lead-free Soldering, UL standard, CE and UKCA Marking

INTERNAL STRUCTURE (PP type)



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

MODEL NUMBER DESIGNATION

Series name		W L 1 0 - N P - 2	Cable length	
Switch output interface			Material of housing	
N : NPN open collector			P : PP (Polypropylene)	
P : PNP open collector			F : PFA (Perfluoroalkoxy alkane)	

LIST OF MODEL NUMBERS

Switch output interface		Model number			
		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.

WL10

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STANDARD SPECIFICATIONS

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

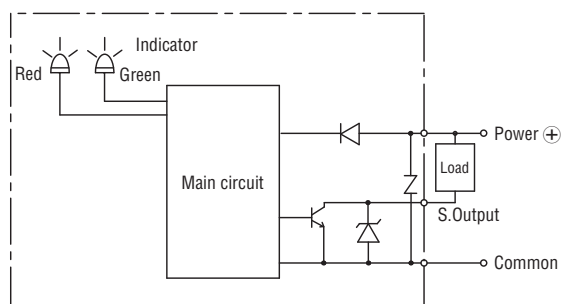
Item		Model number	WL10	
			NPN	PNP
General specifications	Operating temp. range	$^\circ\text{C}$	$-10 \sim 60$	
	Operating humidity	%RH	$35 \sim 85$ (No condensation)	
	Storage temp.	$^\circ\text{C}$	$-20 \sim 70$ (Atmospheric pressure, humidity 65 %RH maximum)	
	Pressure medium		Water (PP) / Corrosive fluids compatible with PFA	
	Material of housing		PP/PFA	
	Net weight	g	Approx. 30 (WL10- * P-2) Approx. 50 (WL10- * P-4, WL10- * F-2) Approx. 80 (WL10- * F-4)	
Power	Supply voltage	VDC	$12 \sim 24 \pm 10\%$	
	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

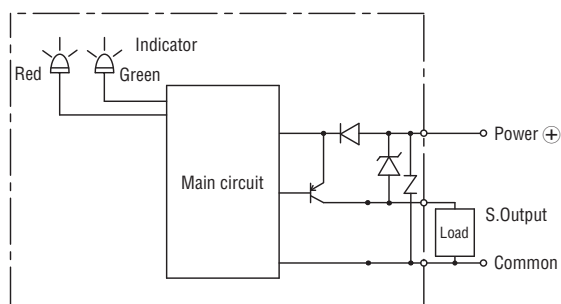
Test item	Test conditions	Specification
Vibration	$10 \sim 500\text{ Hz}$, 1.5 mm maximum / 98.1 m/s^2 , 3 directions for 2 hours each	Meets standard specifications
Shock	490 m/s^2 , 3 directions for 3 times each	
Protection grade	IP67	

INTERNAL ELECTRICAL SCHEMATICS

● NPN



● PNP



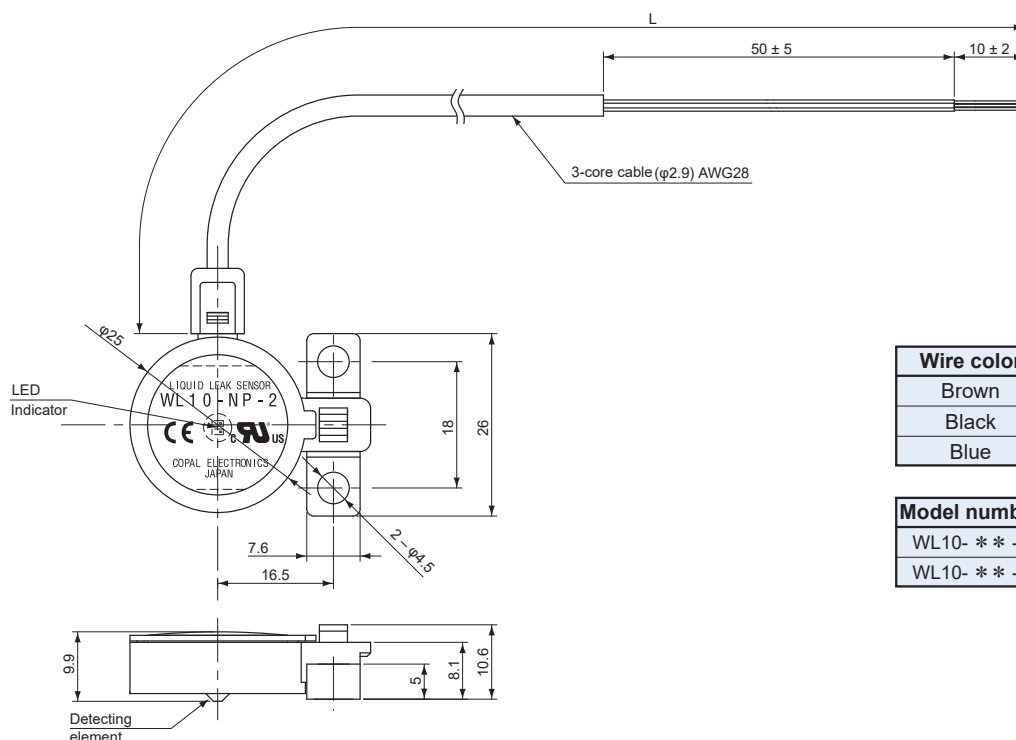
WL10

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OUTLINE DIMENSION

Unless otherwise specified, tolerance: ± 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

