

Model Name:

Liquid Leak Sensors

Our liquid leakage sensor is an optical spot-type sensor that uses infrared reflection.

The detection mechanism consists of a built-in light-emitting diode (LED) and a photodiode (PD). The light emitted from the LED is reflected by a prism and received by the PD, where it is converted into an electrical signal. When liquid comes into contact with the prism, the light passes through the liquid instead, greatly reducing the amount of light reaching the PD. This change in light reception is used to detect the presence of a leak.

Features:

- Low effects at detection point by introduction of new optical technology
- Needless shade plate, High precision
- Compact and Slim size (ϕ 25 mm, t = 10 mm)
- Lead-free Soldering

Model Number:

ALS-WL10N-P200



Specification

Note: Unless otherwise specified, the specs are defined at an ambient temperature of 25 ± 5 °C and excitation voltage of 24 V DC.

Item			WL10-NP-2
			NPN
Gene	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)
	Material of housing		PP
	Net weight	g	Approx. 30
Power	Supply voltage	V DC	12 ~ 24 10 %
	Consumption current	mA maximum	10 (Except open collector output)
Output	Switching capacity		Voltage endurance : 30VDC Sink current : 50 mA maximum (Overcurrent protection)
	Residual voltage	V maximum	1.0 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 / S2, 3 directions for 2 hours each	Meets standard specifications
Shock	490 m/s ² , 3 directions for 3 times each	
Protection grade	IP-67	
EMC	EMI : EN55011: 2007, A2 : 2007 Group 1, class B EMS : EN61326-1: 2006 Table 2	

Line Drawing

