

Data sheet

Sensing type	Through-beam type
Sensing distance	5mm
Sensing target	Opaque
Min. sensing target	≥ 0.8 mm × 1.8 mm
Hysteresis (distance)	≤ 0.05mm
Response time	Light ON: Max. 20 μ s, Dark ON: Max. 100 μ s
Response frequency	2kHz
Light source	Infrared LED
Peak emission wavelength	940nm
Operation mode	Light ON/Dark ON(set by control wire)
Indicator	Operation indicator (red LED)
Weight	Approx. 50g
Power supply	5-24VDC \pm 10%(ripple P-P : max. 10%)
Current consumption	Max. 15mA
Control output	PNP open collector
Load voltage	≤ 24VDC
Load current	Max. 50mA
Residual voltage	NPN: ≤ 1.2VDC, PNP: ≤ 1.2VDC
Protection circuit	Reverse polarity protection circuit, output overcurrent (short-circuit) protection circuit
Insulation resistance	≥ 20 M Ω (250 VDC megger)
Noise immunity	The square wave noise (pulse width: 1 μ s) by the noise simulator \pm 240VDC
Dielectric strength	1,000VAC 50/60Hz for 1 minute
Vibration	1.5mm amplitude (max. acceleration 196m/s ²) at frequency of 10 to 2,000Hz in each X, Y, Z direction for 2 hours
Shock	15,000 m/s ² (approx. 1,500G) in each X, Y, Z direction for 3 times
Environment_Ambient illumination	Fluorescent lamp: Max. 1,000lx(received illumination)
Environment_Ambient temperature	-20 to 55 $^{\circ}$ C, storage : -25 to 85 $^{\circ}$ C
Environment_Ambient humidity	35 to 85% RH, storage: 35 to 85% RH
Protection structure	IP50 (IEC standard)
Connection	Cable type
Connection type	Ø2.5mm, 4-wire, 1m
Core	AWG28 (0.08mm), 19-core, insulator out diameter: Ø0.65mm

