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## 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. 20μs, Dark ON: Max. 80μs
Response frequency	2kHz
Light source	Infrared LED
Peak emission wavelength	940nm
Operation mode	Light ON/Dark ON(Built-in)
Indicator	Operation indicator (red LED)
Weight	≈ 2.4 g
Power supply	5-24VDC ±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 MΩ (250 VDC=== megger)
Noise immunity	The square wave noise (pulse width: $1\mu$ s) by the noise simulator $\pm 240$ VDC $$
Dielectric strength	1,000VAC~ 50/60Hz for 1 minute
Vibration	1.5mm amplitude (max. acceleration 196m/s²) at frequency of 10 to 2,000Hz in each X, Y, Z direction for 2 hours
Shock	15,000 m/s² (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°C, storage : -25 to 85°C
Environment_Ambient humidity	35 to 85% RH, storage: 35 to 85% RH
Protection structure	IP50 (IEC standard)
Connection	Connector type
Material	Case: PBT, Sensing part: PC
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