

Data sheet

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| 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. 80 μ s |
| 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 \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 | Connector type |
| Material | Case: PBT, Sensing part: PC |