

Data sheet

Sensing type	Convergent reflective type
Sensing distance	5 to 30mm
Sensing target	Opaque, Translucent material(min. sensing target: Ø0.15mm)
Light source	Red LED(650nm)
Response time	Max. 1ms
Power supply	12-24VDC  ±10%(ripple P-P: max. 10%)
Current consumption	Max. 20mA
Operation mode	Dark ON
Control output	NPN open collector
Connection type	Cable type(Ø2.5, 2m)
Environment_Ambient illumination	Sunlight: Max. 10,000lx, Incandescent lamp: Max. 3,000lx (received illumination)
Environment_Ambient temperature	-20 to 55°C, storage: -30 to 70°C
Protection structure	IP67
Environment_Ambient humidity	35 to 85% RH, storage: 35 to 85% RH
Hysteresis(distance)	Max. 15% of maximum sensing distance
Material	Case: Polybutylene terephthalate, Sensing part: Polymethyl methacrylate, Bracket: Stainless steel 304, Bolt: Carbon steel wire for cold heading(SWCH10A)

Weight

Approx. 45g(approx. 25g)

- ※Non-glossy white paper 50×50mm.
- ※The weight includes packaging. The weight in parenthesis is for unit only.
- ※The temperature or humidity mentioned in Environment indicates a non freezing or condensation.
- ※Based on 10mm sensing distance.
- ※Sold separately: Slit (BTS1M-ST: Ø1)