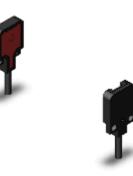
## ONRON Industrial Automation | • Global

Ultracompact, Ultrathin Photoelectric Sensor with Built-in Amplifier

## E3T-FT22 2M



Ultrathin Photoelectric Sensor with Built-in Amplifier, Through-beam type, Sensing distance: 300 mm, NPN output, Dark-ON, Red light, M2 mounting, Prewired model, 2 m

Sensing method	Through-beam type
Sensing distance	300 mm
Light source	Red LED (650 nm)
Connection method	Pre-wired models

Image

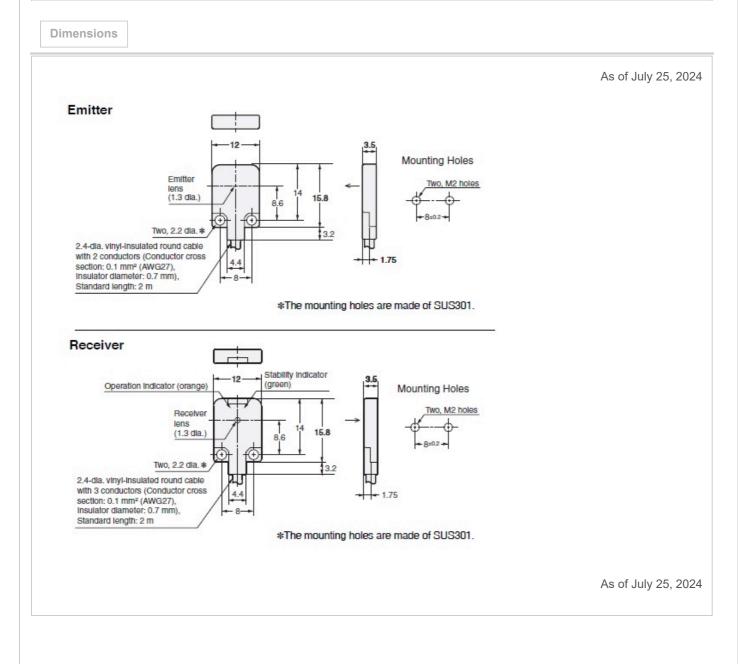
**Ratings/Performance** 

As of July 25, 2024

Shape	Rectangular type (Flat)
Sensing method	Through-beam type
Sensing distance	300 mm
Standard sensing object	Opaque: 1.3 mm dia. min.
Minimum sensing object	1.3 mm min. dia. (Opaque)
Directional angle	Emitter: 3 to 25 ° Receiver: 3 ° min.
Light source	Red LED (650 nm)
Power supply voltage	12 to 24 VDC±10% ripple (p-p) 10% max.
Current consumption	Emitter: 10 mA max. Receiver: 20 mA max.
Control output	NPN open collector 26.4 VDC max. 50 mA max. Residual voltage: 1 V max. (Load current Less than 10 mA) Residual voltage: 2 V max. (Load current 10 to 50 mA)
Operation mode	Dark-ON
Protective circuit	Output short-cut protection, Output reverse polarity protection, Power supply reverse polarity protection
Response time	Operate or reset: 1 ms max.
Ambient illuminance	Incandescent lamp: 5,000 lx max. Sunlight: 10,000 lx max.
Ambient temperature range (Operating)	-25 to 55 $^{\circ}\mathrm{C}$ (with no freezing or condensation)
Ambient temperature range (Storage)	-40 to 70 $^{\circ}\mathrm{C}$ (with no freezing or condensation)

Ambient humidity range (Operating)	35 to 85 % (with no condensation)
Ambient humidity range (Strage)	35 to 95 % (with no condensation)
Insulation resistance	20 MΩ min. (500 VDC megger)
Dielectric strength	1000 VAC 50/60 Hz 1 min
Vibration resistance	Destruction: 10 to 2000 Hz, 1.5 mm or 300 m/s <sup>2</sup> double amplitude for 0.5 hours each in X, Y, and Z directions
Shock resistance	Destruction: 1000 m/s <sup>2</sup> 3 times each in X, Y and Z directions
Connection method	Pre-wired models (Cable length 2 m)
Indicator	Operation indicator (orange), Stability indicator (green)
Weight	Package: Approx. 40 g
Accessories	Instruction manual, Set screws for mounting (M2*8), Nuts
Material	Case: Polybutylene terephthalate (PBT) Lens: Denatured Polyarylate Display: Denatured Polyarylate

As of July 25, 2024



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