



## Photoelectric Sensors E3FA-TP11

**2M**

URL:<https://www.sxplc.com/photoelectric-sensors-e3fa-tp11-2m>

### Product data sheet

Shape	Cylinder type
Sensing method	Through-beam type

Sensing distance	20 m
Standard sensing object	Opaque: 7 mm dia. min.
Directional angle	2 ° min.
Light source	Red LED (624 nm)

Power supply voltage

10 to 30 VDC $\pm$ 10% ripple (p-p) 10% included

Current consumption

Emitter: 25 mA max.

Receiver: 15 mA max.

Control output

PNP open collector

30 VDC max.

100 mA max.

Residual voltage: 3 V max.

Operation mode	Light-ON/Dark-ON selectable
Protective circuit	Output short-circuit protection, Output reverse polarity protection, Power supply reverse polarity protection
Response time	Operate or reset: 0.5 ms max.

Sensitivity setting	Single-turn adjustment
Ambient illuminance	Incandescent lamp: 3,000 lx max. Sunlight: 10,000 lx max.
Ambient temperature range (Operating)	-25 to 55 ? (with no freezing or condensation)
Ambient temperature range (Storage)	-40 to 70 ? (with no freezing or condensation)

Ambient humidity range (Operating)	35 to 85 % (with no condensation)
Ambient humidity range (Storage)	35 to 95 % (with no condensation)
Insulation resistance	20 M $\Omega$ min. (500 VDC megger)

Dielectric strength	1000 VAC 50/60 Hz 1 min
Vibration resistance	Destruction: 10 to 55 Hz, 1.5 mm double amplitude each in X, Y, and Z directions for 2 h
Shock resistance	Destruction: 500 m/s <sup>2</sup> 3 times each in X, Y and Z directions
Degree of protection	IEC: IP67

DIN40050-9: IP69K

Connection method

Pre-wired models (Cable length 2 m)

Indicator

Operation indicator (orange), Stability indicator (green),  
Power indicator (green)

Weight

Package: Approx. 110 g

Accessories

Instruction sheet, M18 nuts

Material

Case: ABS

Lens: Methacrylate resin (PMMA)

Display: Methacrylate resin (PMMA)

Adjustment: POM

Nut: POM



