



Photoelectric Sensors E3FA-DP12

2M

URL:<https://www.sxplc.com/photoelectric-sensors-e3fa-dp12-2m>

Product data sheet

Shape	Cylinder type
Sensing method	Diffuse-reflective

Sensing distance	White paper 300 x 300 mm: 300 mm
Spot size	40 x 50 mm (sensing distance: 300 mm)
Differential distance	20% max.
Light source	Red LED (624 nm)

Power supply voltage	10 to 30 VDC±10% ripple (p-p) 10% included
Current consumption	25 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	<p>Incandescent lamp: 3,000 lx max.</p> <p>Sunlight: 10,000 lx max.</p>
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)
Weight	Package: Approx. 60 g Main Unit: Approx. 50 g

Accessories

Instruction sheet, M18 nuts

Material

Case: ABS

Lens: Methacrylate resin (PMMA)

Display: Methacrylate resin (PMMA)

Adjustment: POM

Nut: POM



