



## 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 $\pm$ 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                   | Incandescent lamp: 3,000 lx max.<br>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)

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



