

Flashlight Sensor

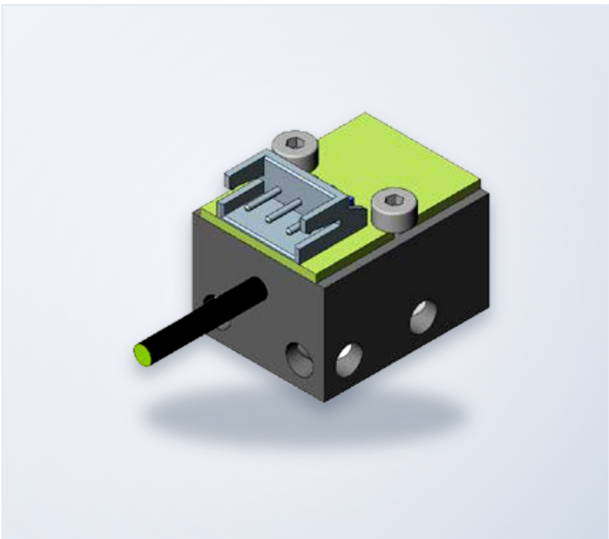
EM044505-0

The **EM044505-0** is a high-sensitivity, low-noise optical sensor for detecting a device's flashlight or display output in production test. It responds fast to visible light across the 400–700 nm range.

The sensor is fitted in a holder with a 300 mm optical cable terminated with a flying end, allowing flexible placement close to the light source in the fixture.

A built-in output timer holds the detection signal for >100 ms, ensuring reliable capture of short light pulses by the test system.

Designed for automated and semi-automated production test fixtures.



■ OPTICAL & ELECTRICAL

Spectral range	400 – 700 nm
Peak wavelength λ_p	645 nm
Irradiance responsivity	1.68 V/(μ W/cm ²) (typ.)
Output hold timer	>100 ms
Supply voltage	+5 V
Operating temperature	0 – 50 °C
Storage temperature	–20 ... +70 °C
Relative humidity	15 – 90 % non-condensing

■ PINOUT

JST S3B-EH

Pin	Signal
1	GND
2	+5 V
3	OUT

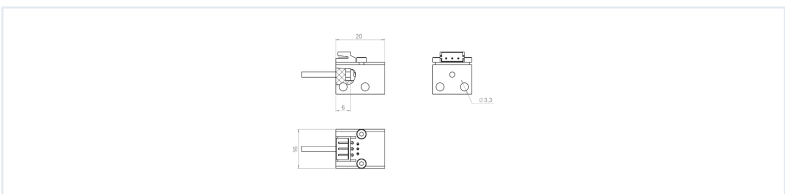
■ TYPICAL SPECTRAL RESPONSIVITY

■ MECHANICAL

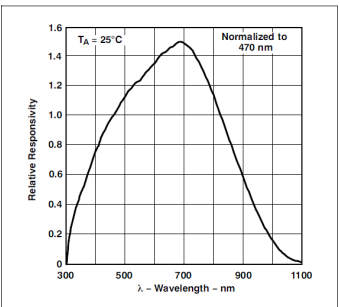
Holder body	20 × 16 mm (0.79 × 0.63 in)
Optical cable	300 mm (11.81 in), flying end
Mounting holes	2 × Ø3.3 mm (Ø0.13 in)
Connector	JST S3B-EH
Compliance	RoHS

■ DIMENSIONS

mm



normalised · T_a = 25 °C



3D CAD models available on request via sales@bluelec.com