

E3T-ST11

Industrial automation components

Manufacturer	Omron
Catalog number	e3t-st11
Category	Industrial automation components
Product type	Industrial automation components
Status	Active product

Technical specification

Product Type	Sensor
Sensing Method	Through-beam
Sensing Distance	1 m
Light Source	Red LED (650 nm)
Power Supply Voltage	12 to 24 VDC
Output Type	NPN open collector
Response Time	1 ms
Ambient Temperature Range	-25 to 55 °C
Housing Material	Polybutylene terephthalate (PBT)
IP Rating	IP67

Description

The Omron E3T-ST11 is an ultracompact, ultrathin photoelectric sensor with a built-in amplifier, designed for precise object detection in industrial automation applications. This through-beam type sensor offers a sensing distance of up to 1 meter, utilizing a red LED light source with a wavelength of 650 nm. It operates on a 12 to 24 VDC power supply and features an NPN open collector output with a light-ON mode. The sensor is housed in a durable polybutylene terephthalate (PBT) enclosure and is rated IP67, ensuring reliable performance in harsh environments. With a response time of 1 millisecond, it is suitable for high-speed detection tasks. The E3T-ST11 operates within an ambient temperature range of -25°C to 55°C, making it versatile for various industrial settings. Its compact design allows for easy integration into space-constrained areas, enhancing the efficiency and reliability of automation systems.