

E3T-ST12

Industrial automation components

Manufacturer	Omron
Catalog number	e3t-st12
Category	Industrial automation components
Product type	Industrial automation components
Status	Active product

Technical specification

Product Type	Sensor
Sensing Method	Through-beam type
Sensing Distance	1 meter m
Light Source	Red LED (650 nm)
Power Supply Voltage	12 to 24 VDC
Output Configuration	NPN open collector
Operating Temperature Range	-25°C to 55°C
Ambient Light Immunity	10,000 lx
Enclosure Material	Polybutylene terephthalate (PBT)
Cable Length	5 meters m

Description

The Omron E3T-ST12 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 at 650 nm wavelength. It operates with a 12 to 24 VDC power supply and features an NPN open collector output, suitable for dark-ON operation mode. The sensor is housed in a square-type enclosure made of polybutylene terephthalate (PBT) and is equipped with a pre-wired 5-meter cable for easy installation. With an operating temperature range of -25°C to 55°C and an ambient light immunity of up to 10,000 lx, the E3T-ST12 is built to withstand various industrial environments. Its compact design and reliable performance make it an ideal choice for applications requiring precise and efficient object detection.