

EE-SX772

Industrial automation components

Manufacturer	Omron
Catalog number	ee-sx772
Category	Industrial automation components
Product type	Industrial automation components
Status	Active product

Technical specification

Brand	Omron
Part Number	EE-SX772
Product Type	Photomicrosensor
Sensing Method	Through-beam type
Sensing Distance	5 mm
Output Type	NPN open collector
Cable Length	2 m
Housing Material	Polybutylene terephthalate (PBT)
Operating Temperature Range	-25°C to +55°C
Ambient Humidity Range	5% to 85%
Vibration Resistance	10 to 2000 Hz, 100 m/s ² Hz, m/s ²
Shock Resistance	500 m/s ²

Description

The Omron EE-SX772 is a T-shaped photomicrosensor designed for through-beam applications, featuring a slim cable for flexible installation. Operating with a non-modulated infrared light source, it offers a sensing distance of up to 5 mm, suitable for detecting opaque objects as small as 2 x 0.8 mm. The sensor operates in a dark-ON mode, where the output is activated when the light path is interrupted. It utilizes an NPN open collector output, compatible with load voltages ranging from 5 to 24 VDC. The device is pre-wired with a 2-meter cable, facilitating easy integration into various systems. Constructed with a polybutylene terephthalate (PBT) housing, the EE-SX772 ensures durability and resistance to environmental factors. It operates effectively within a temperature range of -25°C to +55°C and can withstand ambient humidity levels from 5% to 85% without condensation. The sensor is also designed to resist vibrations and shocks, withstanding frequencies from 10 to 2000 Hz and accelerations up to 100 m/s². Additionally, it has an IP64 rating, providing protection against dust and water splashes. This sensor is ideal for applications requiring precise object detection in compact spaces, such as assembly lines, packaging machinery, and material handling systems.