

TL-N10ME2

Industrial automation components

Manufacturer	Omron
Catalog number	tl-n10me2
Category	Industrial automation components
Product type	Industrial automation components
Status	Active product

Technical specification

Voltage	10 - 30 V
Product Type	Sensor
Signal Type	30
Signal Level	30 V
Sensing Distance	10 mm
Response Frequency	500 Hz
Operating Temperature Range	-25 to 70 °C
Ingress Protection Rating	IP67
Output Type	NPN-NC

Description

The Omron TL-N10ME2 is a rectangular standard proximity sensor designed for precise detection in industrial automation applications. This unshielded, inductive sensor offers a sensing distance of 10 mm \pm 10%, making it suitable for various proximity sensing tasks. It operates on a DC three-wire system with an NPN output and a normally closed (NC) operation mode, ensuring reliable performance in diverse environments. The sensor is housed in a compact module measuring 30 mm x 30.5 mm x 52.5 mm, facilitating easy integration into existing systems. With a response frequency of 500 Hz, it is capable of high-speed detection, which is essential for applications requiring rapid response times. The TL-N10ME2 is engineered to withstand harsh conditions, featuring an operating temperature range from -25°C to 70°C and an ingress protection rating of IP67, indicating resistance to dust and water ingress. This durability ensures consistent performance in challenging industrial settings. Additionally, the sensor is equipped with a detection indicator (red LED), providing clear visual feedback during operation. Its reverse polarity protection and surge suppressor enhance its resilience, safeguarding against electrical anomalies. The TL-N10ME2 is ideal for applications such as limit control, counting control, and high-speed rotation control, where precise and reliable proximity sensing is crucial.