

PM-T45

Industrial automation components

Manufacturer	Panasonic
Catalog number	pm-t45
Category	Industrial automation components
Product type	Industrial automation components
Status	Active product

Technical specification

Voltage	5 V
Product Type	Sensor
Signal Level	5 V
Supply Voltage	5 to 24 V DC
Current Consumption	15 mA
Sensing Range	6 mm
Output Type	NPN open-collector transistor
Operating Temperature	-25 to +55 °C

Description

The Panasonic PM-T45 is a compact, amplifier-built-in U-shaped micro photoelectric sensor designed for precise object detection in industrial automation applications. With a fixed sensing range of 6 mm, it effectively detects opaque objects as small as 0.8 × 1.2 mm. Operating within a supply voltage range of 5 to 24 V DC and consuming a maximum of 15 mA, the sensor offers energy-efficient performance. It features an NPN open-collector transistor output with a maximum sink current of 50 mA, suitable for various control systems. The PM-T45 operates reliably in ambient temperatures from -25°C to +55°C and is housed in an IP64-rated enclosure, ensuring durability in industrial environments. Its compact design and precise sensing capabilities make it ideal for applications requiring accurate object detection in confined spaces.