

Features

- High-performance miniature sensor with built-in amplifier.
- Visible pin-point beam.
- Through-beam, retro-reflective and diffuse models.
- Mutual interference prevention on retro-reflective and diffuse models.
- IP67.

722 6457

Specifications

Sensing Distance
Light Source
Sensitivity Adjustment

Power Supply Voltage
Current Consumption
Circuit Protection

Control Output
Response Time
Operation Mode(s)
Indicators

Connection Method

Enclosure Rating

Materials
Ambient Temperature
Ambient Humidity
Approvals

Through-beam	Retro-reflective	Diffuse
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1 m	500 mm	10 - 200 mm	5 - 15 mm	5 - 30 mm
Red "pin-point" LED (670 nm)				
Fixed				

12 to 24 VDC - 10%	
24 mA max.	20 mA max.
Load short circuit, reverse polarity	

NPN or PNP 24 VDC 50 mA max.
1 ms max. (both operation and release)
Light ON/Dark ON (fixed models)
Light indicator (orange), stability indicator (green)

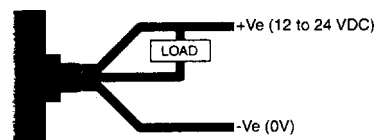
2-wire

IP67

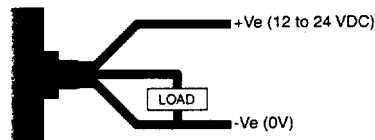
Case: PBT Lens & Cover: Polycarbonate
-25°C to 55°C (with no icing)
35% to 85%
CE (EMC, LVD)

Connections

NPN



PNP

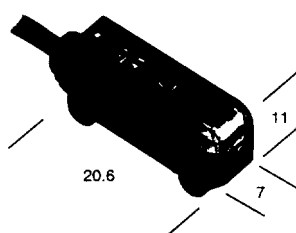


Selection table

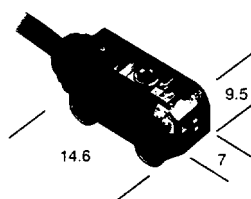
	NPN		PNP	
	Light ON	Dark ON	Light ON	Dark ON
Through-beam (side view)	E3T-ST12		E3T-ST14	
Through-beam (flat)	E3T-FT12		E3T-FT14	
Retro-reflective*	E3T-SR12		E3T-SR14	
Diffuse (flat)	E3T-FD11	E3T-FD12	E3T-FD13	E3T-FD14
Diffuse (side view)	E3T-SL11	E3T-SL12	E3T-SL13	E3T-SL14
Diffuse (side view)	E3T-SL21	E3T-SL22	E3T-SL23	E3T-SL24

Dimensions (mm)

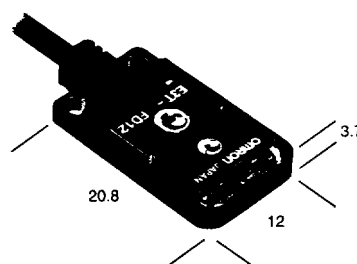
Diffuse (side view)
Retro-reflective



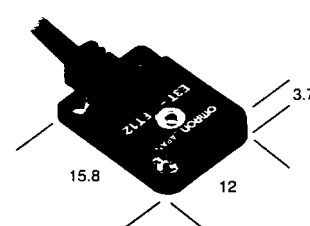
Through-beam (side view)



Diffuse (flat)



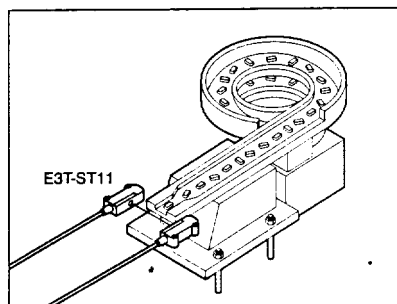
Through-beam flat)



Note: Dimensions are the same for each of the pair.

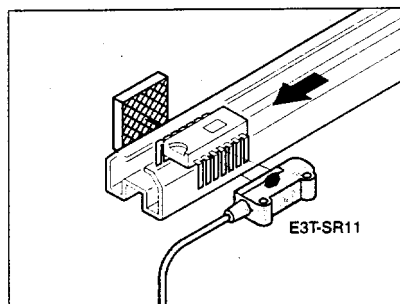
Typical applications

Through-beam



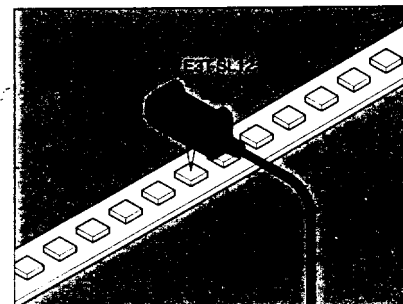
The presence of parts is detected in order to count the number being manufactured.

Retro-reflective



A sensor is used to detect the absence of ICs in automatic IC handlers. ➤

Diffuse



With the pin-point LED a limited reflective model is used to detect IC chips on tape.