

Techsense Bangladesh Ltd

Photoelectric Sensor, Code : PU30-TDPB

A Photoelectric Sensor consists primarily of an Emitter for emitting light and a Receiver for receiving light. When emitted light is interrupted or reflected by the sensing object, it changes the amount of light that arrives at the Receiver. The Receiver detects this change and converts it to an electrical output. These sensors are made of light sensitive parts. This makes them useful in detecting the light emitters or any type of light source. There are various types of this sensor. Majorly they utilize the phenomena of reflection of light in which emitter and receiver together detect the reflection of light that strikes the object. In some other cases they spot any disturbance due to the target in the beam of light

General Attributes

- Housing size : 72*52*16mm
- Model : Through beam
- Sensing range : 30mm
- Light source : Infrared LED
- Output : PNP NO/NC
- Power supply : 10...30VDC
- Standard target : Opaque Objects with: $\phi > 2\text{mm}$
- Response time : $\leq 1\text{ms}$
- Load current : $\leq 200\text{mA}$
- Residual voltage : $\leq 2.5\text{VDC}$
- Consumption current : $\leq 15\text{mA}$
- Protection circuit : Reverse polarity and surge protection
- Indicator : Yellow LED
- Ambient temp. : $-15 \dots 55^\circ\text{C}$
- Shock : 500m/s(50G) for 3 times, in each of X, Y and Z direction
- Dielectric strength : 1000V/AC 50/60Hz 60s
- Insulation resistance : $\geq 50\text{M}\Omega(500\text{VDC})$

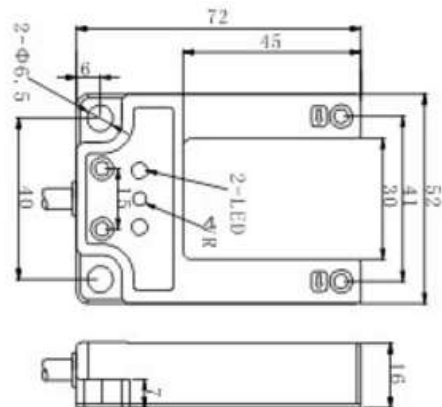
Application Notes

Checking presence, inspecting completeness, counting and sorting.

Checking the presence of coloured objects, detection of printed marks, inspecting LEDs, colours and luminescent objects.

Measurement of parts, monitoring of sag, measurement of thickness and distance, measurement of path and filling level.

Reading of bar codes and data matrix codes, OCR, tracking of components, colour identification
 Front-edge detection, Pick & Place, quality inspection



Wiring Diagram

For further information please visit : <https://goo.gl/L11pm8>