SENSOR
SHOP BD

Techsense Bangladesh Ltd

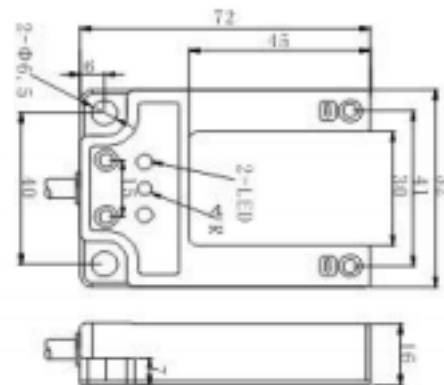## Photoelectric Proximity Sensor, Code : PU15-TDPO

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** : 40*35*15mm
- **Mode** : Through beam
- **Sensing range** : 15mm
- **Light source** : Infrared LED
- **Output** : PNP NO
- **Power supply** : 10…30VDC
- **Standard target** : Opaque Objects with: $\varphi > 1.5mm$
- **Response time** : ≤1ms
- **Load current** : ≤200mA
- **Residual voltage** : ≤2.5VDC
- **Consumption current** : ≤15mA
- **Protection circuit** : Reverse polarity and surge protection
- **Indicator** : Yellow LED
- **Ambient temp.** : -25…55℃
- **Insulation resistance** : ≥50MΩ(500VDC)
- **Anti-vibration** : 1.5mm amplitude at 10 to 55Hz in each of x, y and z direction for two hours
- **Protection degree** : IP64
- **Housing material** : PBT
- **Connection** : PVC Cable 2m

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, measure-ment 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

Dimension Drawing

For further information please visit : https://goo.gl/kJZRzM

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