

# Lanbao PR18S-TM10DN0 Photoelectric Proximity Sensor – 10m



## **Product Description**

The 3525 uses the most reliable and accurate style of photoelectric sensing which is the through beam sensor. The sensor comes with an emitter and a receiver. The emitter provides a constant invisible IR (infrared) beam of light to the receiver and detection occurs when an object passing between the two breaks the beam. The photo detection range of the 3525 is up to 10 meters.

A very familiar application of a through beam photoelectric sensor can be found is right in your home. Quite often, a garage door opener has a through beam photoelectric sensor mounted near the floor, across the width of the door. This sensor is making sure nothing is in the path of the door when it is closing.

The Phidgets Digital Input is “off” when the receiver receives the transmitter signal (i.e. there are no objects between the transmitter and the receiver); the Digital Input is “on” when the beam is broken by the presence of an object.

## **Connection**

You need to provide 12VDC to the transmitter. The brown wire is +V and the blue wire is GND. The receiver connects to any device with a Digital Input. See the Compatible Products tab for details.

## **Product Specifications**

### **Sensor Properties**

Detecting Distance Max	10 m
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Sensor Type	Through-Beam (Photoelectric)
Sensor Output Switch Type	NPN Normally Open
Sensor Response Time Max	3 ms

**Electrical Properties**

Supply Voltage Min	10 V DC
Supply Voltage Max	30 V DC
Current Consumption Max	15 mA
Protection Circuitry	Surge Protection

**Physical Properties**

Cable Length	2 m
Material	PBT
Operating Indicator	Green LED (Emitter), Yellow LED (Reciever)
IP Rating	IP67
Operating Temperature Min	-25 °C
Operating Temperature Max	55 °C
Operating Humidity Min	35 %RH
Operating Humidity Max	85 %RH