

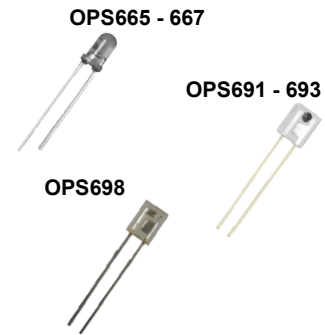
# LED and Photosensor Pairs

OPS665, OPS666, OPS667, OPS691, OPS692, OPS693, OPS698



### Features:

- High current transfer ratio
- Low-cost plastic package
- Lateral side-looking clear plastic package (OPS691, OPS692, OPS693 and OPS698)



### Description:

Each LED/Photosensor pair in the series consists of a gallium arsenide infrared emitting diode and a NPN silicon phototransistor, mounted in a T-1 package (**OPS665, OPS666, OPS667**) or in a matched lateral side-looking plastic package (**OPS691, OPS692, OPS693 and OPS698**).

Matched pairs are desirable where the application is unique and the quantity required does not justify assembly tooling costs. If separation between the LED and sensor is greater than two times the specified  $IC_{(ON)}$  distance, proper alignment becomes critical. Although sold as pairs, emitters and sensors are packaged separately for handling ease.

Please note that the sensor is sensitive to ambient light.

### Applications:

- Non-contact reflective object sensor
- Assembly line automation
- Machine automation
- Machine safety
- End of travel sensor
- Door sensor

Ordering Information				
Part Number	Output	Package Style	Description	Lead Length
OPS665	Transistor	T-1	Gallium arsenide infrared emitting diode (OP165) NPN silicon phototransistor (OP505)	0.50" (1.700 mm)
OPS666	Transistor	T-1	Gallium arsenide infrared emitting diode (OP165) NPN silicon phototransistor (OP505)	0.50" (1.700 mm)
OPS667	Transistor	T-1	Gallium arsenide infrared emitting diode (OP165) NPN silicon phototransistor (OP505)	0.50" (1.700 mm)
OPS691	Transistor	Lateral Side-looking	Gallium arsenide infrared emitting diode (OP140) NPN silicon phototransistor (OP550)	0.50" (1.700 mm)
OPS692	Transistor	Lateral Side-looking	Gallium arsenide infrared emitting diode (OP140) NPN silicon phototransistor (OP550)	0.50" (1.700 mm)
OPS693	Transistor	Lateral Side-looking	Gallium arsenide infrared emitting diode (OP140) NPN silicon phototransistor (OP550)	0.50" (1.700 mm)
OPS698	Transistor	Lateral Side-looking	Gallium arsenide infrared emitting diode (OP145) NPN silicon phototransistor (OP555)	0.50" (1.700 mm)



### General Note

TT Electronics reserves the right to make changes in product specification without notice or liability. All information is subject to TT Electronics' own data and is considered accurate at time of going to print.

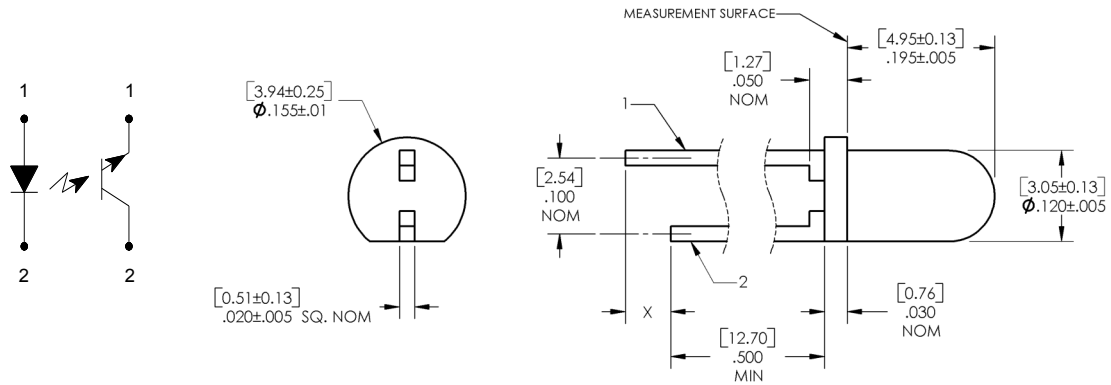
TT Electronics | OPTEK Technology, Inc.  
1645 Wallace Drive, Carrollton, TX 75006 | Ph: +1 972 323 2200  
sensors@ttelelectronics.com | www.ttelelectronics.com

# LED and Photosensor Pairs

OPS665, OPS666, OPS667, OPS691, OPS692, OPS693, OPS698



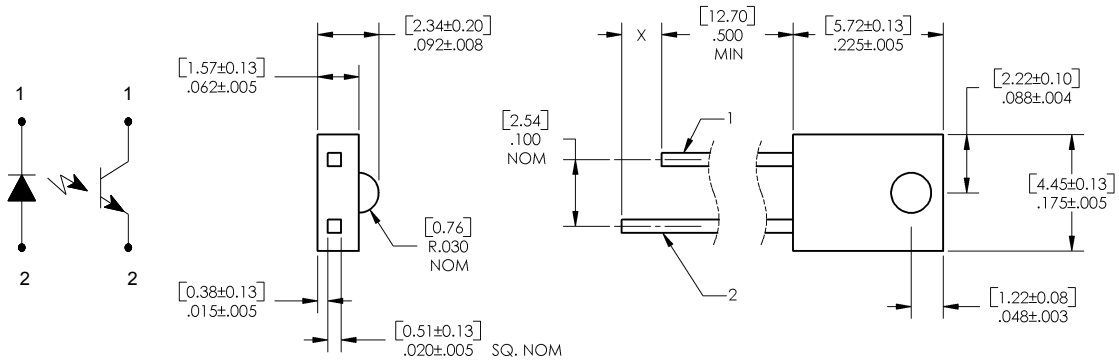
## OPS665, OPS666, OPS667



DIMENSIONS ARE IN INCHES AND [MILLIMETERS].

Pin #	LED & Diode X=0.060" (1.5)	Transistor X=0" (0.0 mm)
1	Anode	Emitter
2	Cathode	Collector

## OPS691, OPS692, OPS693



DIMENSIONS ARE IN INCHES AND [MILLIMETERS].

Pin #	LED X=0.060" (1.5)	Sensor X=0" (0.0 mm)
1	Cathode	Emitter/Anode
2	Anode	Collector/Cathode

### General Note

TT Electronics reserves the right to make changes in product specification without notice or liability. All information is subject to TT Electronics' own data and is considered accurate at time of going to print.

TT Electronics | OPTEK Technology, Inc.  
1645 Wallace Drive, Carrollton, TX 75006 | Ph: +1 972 323 2200  
sensors@ttelelectronics.com | www.ttelelectronics.com