



*Representative photograph, actual product appearance may vary.*

*Due to regional agency approval requirements, some products may not be available in your area. Please contact your regional Honeywell office regarding your product of choice.*

## HOA0825-001

**HOA Series Infrared Transmissive Sensors, Transistor Output, Plastic Package**

### Features

- Phototransistor output
- Four mounting configurations
- 0.165 in [4.2 mm] slot width

### Description

The HOA0825 series consists of an infrared emitting diode facing an NPN silicon phototransistor encased in a black thermoplastic housing. A slot in the housing between emitter and detector provides the means for mechanically interrupting the emitter beam. The phototransistor switching takes place whenever an opaque object passes through the slot between emitter and detector. The HOA0825 series employs plastic molded components. For additional component information see SEP8506 and SDP8406.

Housing material is polycarbonate. Housings are soluble in chlorinated hydrocarbons and ketones. Recommended cleaning agents are methanol and isopropanol.



## HOA0825-001

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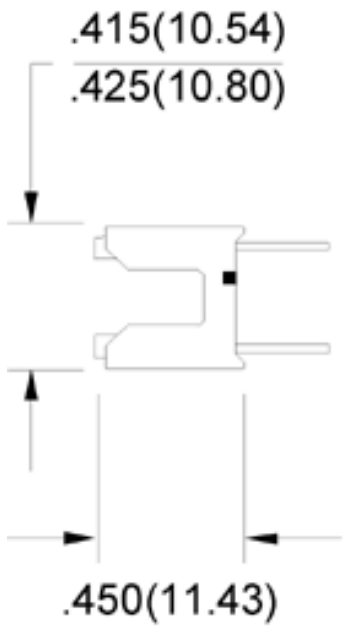
Product Specifications	
Product Type	IR Switch
On-State Collector Current	0.50 mA
Output	Transistor
Package Components	Plastic
Package Color	Black
Forward Current	20 mA
Continuous Forward Current	50 mA
Forward Voltage	1.6 V
Reverse Breakdown Voltage	3 V
Reverse Current	10 $\mu$ A
Rise and Fall Time	15 $\mu$ s
Power Dissipation	100 mW
Operating Temperature Range	-40 °C to 85 °C [-40 °F to 185 °F]
Dark Current	100 nA
Collector DC Current	30 mA
Collector-Emitter Breakdown Voltage	30 V
Emitter-Collector Breakdown Voltage	5 V
Collector-Emitter Saturation Voltage	0.4 V
Availability	Global
Product Name	Transmissive Sensor
Sensor Aperture	1,52 mm [0.060 in] dia.
Slot Width	4,19 mm [0.165 in]

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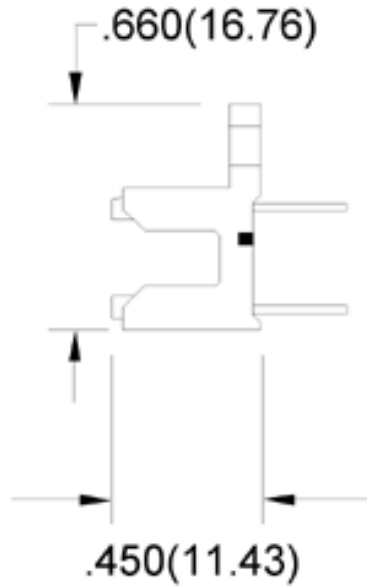
## HOA0825-001

HOA Series Infrared Transmissive Sensors, Transistor Output, Plastic Package

**HOA0825-001**



**HOA0825-002**



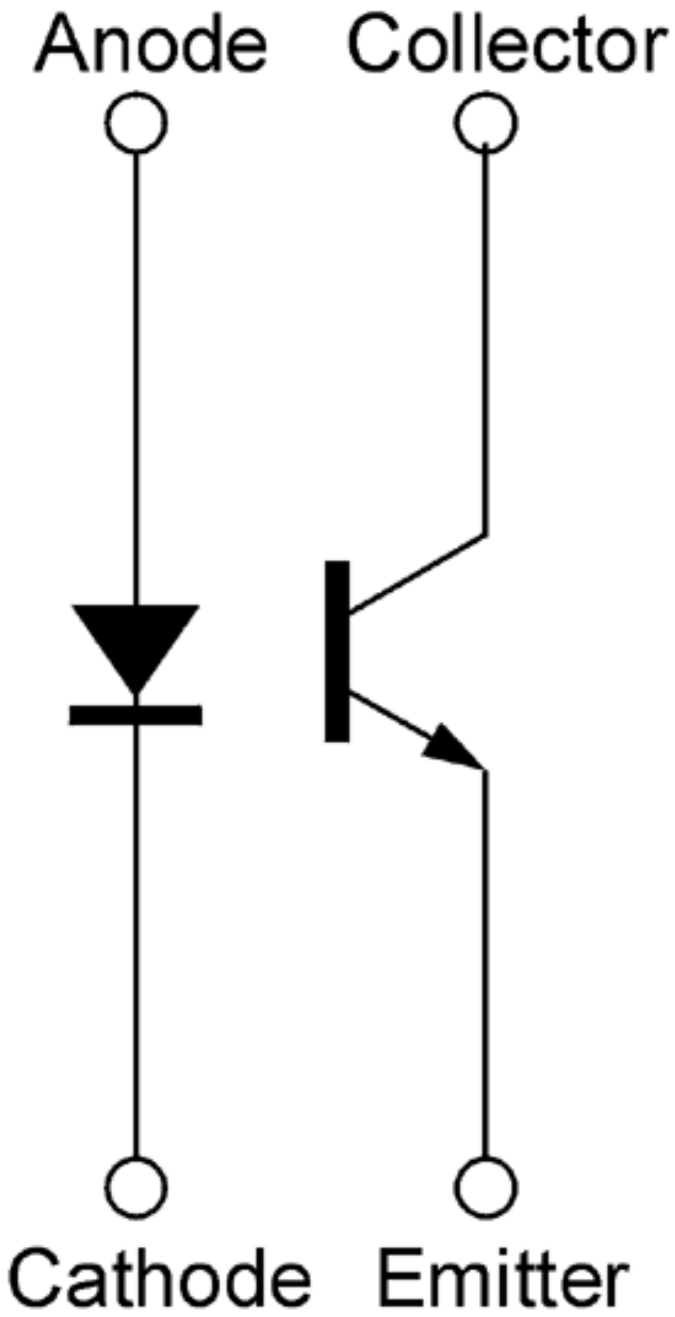
**HOA0825-004**



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## HOA0825-001

**HOA Series Infrared Transmissive Sensors, Transistor Output, Plastic Package**



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## HOA0825-001

**HOA Series Infrared Transmissive Sensors, Transistor Output, Plastic Package**

## **WARNING**

### **PERSONAL INJURY**

DO NOT USE these products as safety or emergency stop devices, or in any other application where failure of the product could result in personal injury.

**Failure to comply with these instructions could result in death or serious injury.**

## **WARNING**

### **MISUSE OF DOCUMENTATION**

- The information presented in this product sheet (or catalog) is for reference only. DO NOT USE this document as product installation information.
- Complete installation, operation and maintenance information is provided in the instructions supplied with each product.

**Failure to comply with these instructions could result in death or serious injury.**