



## HOA1879-015

HOA Series Transmissive Sensor, Transistor Output, Plastic Package

### Features

- Phototransistor output
- Accurate position sensing
- Choice of detector aperture
- 0.125 in [3.18 mm] slot width
- Dust protective housing

*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.*

### Description

The HOA1879 series consists of an infrared emitting diode facing an NPN silicon phototransistor encased in a black IR transmissive thermoplastic housing. Detector switching takes place whenever an opaque object passes through the slot between emitter and detector. The HOA1879 series employs an IR transmissive housing which features smooth optical faces without external aperture openings; this feature is desirable when aperture blockage from airborne contaminants is a possibility. The HOA1879-011 and -012 have a 0.060 in (1.52 mm) dia. detector aperture, while the HOA1879-015 has a 0.010 in (0.25 mm) x 0.040 in (1.02 mm) vertical aperture in front of the detector. This feature is ideal for use in applications where maximum position resolution is desired. The HOA1879 series employs plastic molded components. For additional component information see SEP8506 and SDP8406.

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



## HOA1879-015

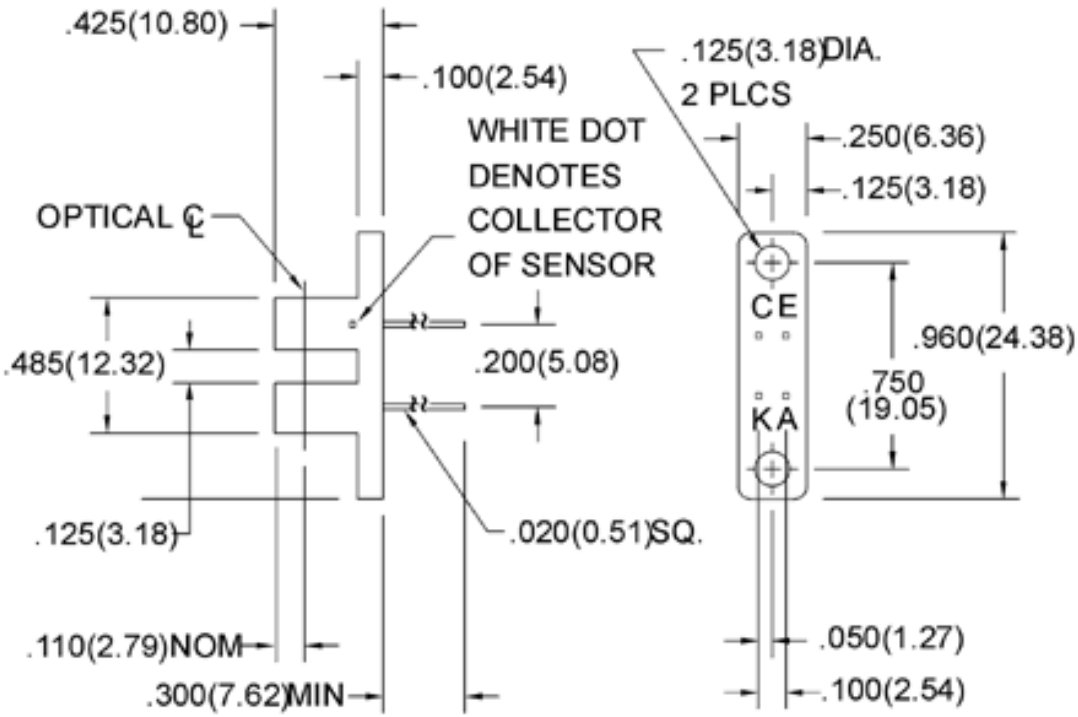
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Product Specifications	
<b>Product Type</b>	IR Switch
<b>On-State Collector Current</b>	0.50 mA
<b>Output</b>	Transistor
<b>Package Style</b>	Side-Looking
<b>Package Components</b>	Plastic
<b>Package Color</b>	Black
<b>Forward Current</b>	20 mA
<b>Continuous Forward Current</b>	50 mA
<b>Forward Voltage</b>	1.6 V
<b>Reverse Breakdown Voltage</b>	3 V
<b>Reverse Current</b>	10 $\mu$ A
<b>Housing Material</b>	Polysulfone, IR Transmissive
<b>Rise and Fall Time</b>	15 $\mu$ s
<b>Power Dissipation</b>	100 mW
<b>Operating Temperature Range</b>	-40 °C to 85 °C [-40 °F to 185 °F]
<b>Dark Current</b>	100 nA
<b>Collector DC Current</b>	30 mA
<b>Collector-Emitter Breakdown Voltage</b>	30 V
<b>Emitter-Collector Breakdown Voltage</b>	5 V
<b>Collector-Emitter Saturation Voltage</b>	0.4 V
<b>Availability</b>	Global
<b>Product Name</b>	Transmissive Sensor
<b>Sensor Aperture</b>	1,02 mm x 0,25 mm [0.040 in x 0.010 in]
<b>Slot Width</b>	3,18 mm [0.125 in]

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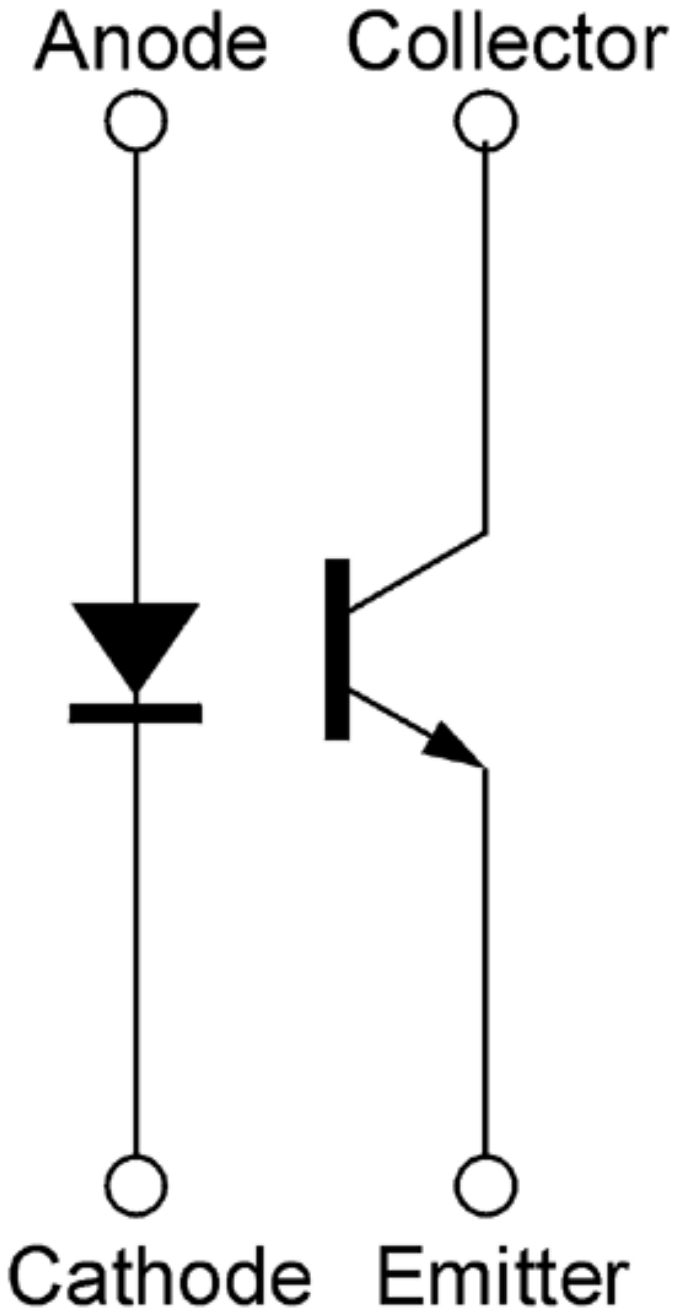
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** WARNING**

**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.**

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