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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.

HOA0880-T51

HOA Series Infrared Transmissive Sensor, Transistor Output, Two Mounting Tabs, Plastic Package

Features

- Phototransistor output
- Four mounting configurations
- Accurate position sensing
- 0.125 in [3.18 mm] slot width
- Choice of detector aperture
- 24.0 in [610 mm] min. 26 AWG UL 1429 wire leads
- Choice of opaque or IR transmissive housings

Description

The HOA088X/089X series consists of an infrared emitting diode facing an NPN silicon phototransistor encased in a black thermoplastic housing. Phototransistor switching takes place whenever an opaque object passes through the slot between emitter and detector. This series allows the user to choose from available options: (1) mounting tab configurations, (2) detector aperture size, (3) electro-optical characteristics, and (4) housing materials.

All devices employ a built-in strain relief for maximum wire attachment strength. The HOA088X series utilizes an IR transmissive polysulfone housing which features smooth optical faces without external aperture openings; this feature is desirable when aperture blockage from airborne contaminants is a possibility. The HOA089X series employs an opaque polysulfone housing with aperture openings for use in applications in which maximum rejection of ambient light is important and in situations where maximum position resolution is desired. The HOA088X/089X series employs plastic molded components. For additional component information see SEP8506 and SDP8406.

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

The detector to emitter lead spacing is 0.32 in (8.13 mm) for all versions. Wire color code and functions are:

Red - IRED Anode

White - Detector Collector

Black - IRED Cathode

Green - Detector Emitter



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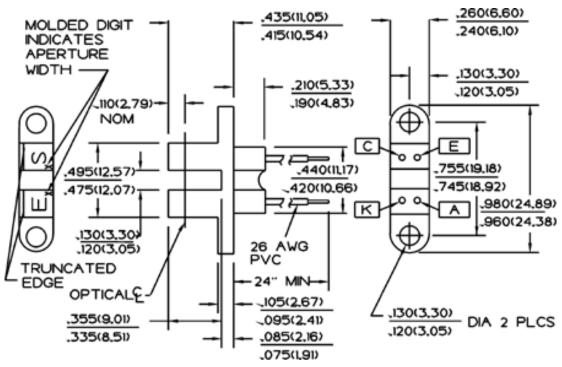
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Product Specifications	
Product Type	IR Switch
On-State Collector Current	0.50 mA
Output	Transistor
Mounting Configuration	Two Mounting Tabs
Package Components	Plastic
Package Color	Black
Forward Current	20 mA
Continuous Forward Current	50 mA
Forward Voltage	1.6 V
Reverse Breakdown Voltage	3 V
Reverse Current	10 μΑ
Housing Material	Polysulfone, Opaque
Rise and Fall Time	15 µs
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
Detector Color	White
IRED Anode Color	Red
IRED Cathode Color	Black
Detector Emitter Color	Green
Availability	Global
Product Name	Transmissive Sensor
Sensor Aperture	1,52 mm x 0,25 mm [0.060 in x 0.010 in]
Slot Width	3,18 mm [0.125 in]

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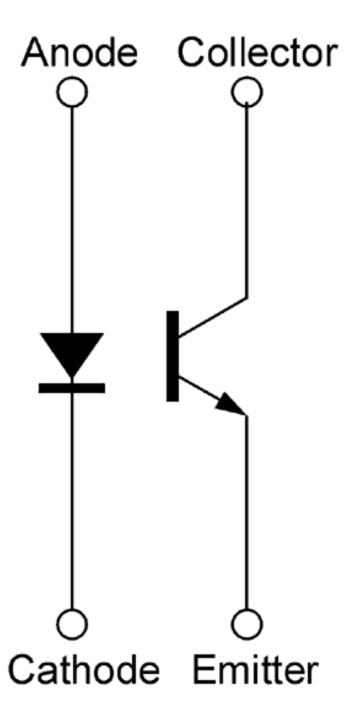
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A WARNING

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.

A 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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