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HOA6962-T55



Actual product appearance may vary.

Features

- Direct TTL interface
- Buffer or inverting logic available
- Three device output options
- Four mounting configurations
- Choice of detector aperture
- 0.125 in [3.18 mm] slot width

Description

The HOA696X/697X series consists of an infrared emitting diode facing an Optoschmitt detector encased in a black thermoplastic housing. Detector sw itching takes place w henever an opaque object passes through the slot betw een emitter and detector. The photodetector consists of a photodiode, amplifier, voltage regulator, Schmitt trigger and various output configurations. The user can choose from available options:(1) detector aperture, (2) mounting tab configuration, (3) detector output configuration, and (4) housing material.

The HOA696X series utilizes an IR transmissive polysulfone housing w hich features smooth optical faces w ithout external aperture openings; this feature is desirable w hen aperture blockage from airborne contaminants is a possibility.

The HOA697X series employs an opaque polysulfone housing w ith aperture openings for use in applications in w hich maximum rejection of ambient light is important, and situations in w hich maximum position resolution is desired. The HOA696X/697X series employs plastic molded components. For additional component information see SEP8506 and SDP8XX4.

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

Device Polarity:

Buffer - Output is LO w hen optical path is blocked.

Inverter - Output is HI w hen optical path is blocked.

Supporting Documentation

- Dimensions
- Schematics and Performance Charts
- Engineering Drawing

Product Specifications	
Series Name	Optoschmitt Sensor
Product Type	IR Switch
Output	Totem -Pole
Output Logic	Inverter
Mounting Configuration	Two Mounting Tabs
Package Components	Plastic
Continuous Forward Current	50 mA
Forward Voltage	1.6 V
Reverse Breakdown Voltage	3 V
Reverse Current	10 μA
Maximum Trigger Current	15 mA
Housing Material	Polysulfone, Opaque
Power Dissipation	100 mW
Operating Temperature Range	-40 °C to 70 °C [-40 °F to 158 °F]
Collector-Emitter Saturation Voltage	0.4 V
Hysteresis (H)	0.05
Operating Supply Voltage	4.5 V to 7.0 V
Supply Voltage	12.0 Vdc
High Level Output Voltage	2.4 V minimum
Low Level Output Voltage	0.4 V maximum
Low Level Supply Current	15 mA
Short Circuit Output Current	-20 mA to -100 mA
Output Rise Time	70 ns
Output Fall Time	70 ns
Propagation Delay, Low-High,High-Low	5.0 μs
Duration of Output Short Vcc or Ground	1.0 second
IRED Trigger Current	15 mA
Comment	Output is HI when incident light intensity is above the turn-on threshold level.
Availability	Global
Sensor Aperture	1,52 mm x 1,27 mm [0.060 in x 0.050 in]
Slot Width	3,18 mm [0.125 in]

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