



HONEYWELL

HOA6962-T55

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HOA6962-T55



Actual product appearance may vary.

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

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 switching takes place whenever an opaque object passes through the slot between 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 which features smooth optical faces without external aperture openings; this feature is desirable when aperture blockage from airborne contaminants is a possibility. The HOA697X series employs an opaque polysulfone housing with aperture openings for use in applications in which maximum rejection of ambient light is important, and situations in which 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 when optical path is blocked.
- Inverter - Output is HI when optical path is blocked.

Supporting Documentation

[Dimensions](#)

[Schematics and Performance Charts](#)

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| 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 μ A |
| Maximum Trigger Current | 15 mA |
| Housing Material | Polysulfone, Opaque |
| Power Dissipation | 100 mW |
| Operating Temperature Range | -40 $^{\circ}$ C to 70 $^{\circ}$ C [-40 $^{\circ}$ F to 158 $^{\circ}$ 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 μ s |
| 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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