

Honeywell Sensing and Control

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HOA6981-N55



HOA Series IR Transmissive Optoschmitt Sensor, Transistor Output, No Mounting Tab, Plastic Package

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 w idth
24.0 in [610 mm] min. 26 AWG UL 1429 wire leads

Description

The HOA698X/699X series consists of an infrared emitting diode facing an Optoschmist detector encased in a black themplastic 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 HOA698X series utilizes an R 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 HOA699X series employs an opaque polysulfone housing with aperture openings for use in applications in which maximum rejection of arbitral light is important, and situations in which maximum rejection of arbitral light is important, and situations in which maximum position resolution is desired. The HOA698X/699X series employs plastic molded components. For additional component information see SEP8506 and SDP8XX4.

see SEP6006 and SUP6XXA.

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 w hen optical path is blocked.
Wire color code and functions are:

Part JEPF Aporte

Red - IRED Anode

Black - IRED Cathode Green - Detector Ground White - Detector Vcc Blue - Detector Output

Supporting Documentation Dimensions

Schematics and Performance Charts

Engineering Drawing

ct Specifications Series Name Optoschmitt Sensor Product Type IR Switch Output Open-Collector Output Logic Mounting Configuration No Mounting Tab Package Components Plastic Package Color Continuous Forward Current 50 mA Forward Voltage 1.6 V Reverse Breakdown Voltage 3 V Reverse Current 10 μΑ Maximum Trigger Current 15 mA Housing Material Polysulfone, IR Transmissive Power Dissipation 100 mW Operating Temperature Range -40 °C to 70 °C [-40 °F to 158 °F] Hysteresis (H) 0.05 4.5 V to 12.0 V Operating Supply Voltage Supply Voltage 12.0 Vdc High Level Output Current 100 μA maximum High Level Supply Current 15 mA Low Level Output Voltage 0.4 V maximum Low Level Supply Current 15 mA Output Rise Time 70 ns Output Fall Time 70 ns Propagation Delay, Low-High, High- 5.0 μs Low Duration of Output Short Vcc or Ground 1.0 second IRED Trigger Current 15 mA IRED Anode Color Red IRED Cathode Color Black Detector Vcc Color White Detector Output Color Blue Detector Ground Color Green Output is LO when incident light intensity is above the turn-on threshold level. Comment Availability Sensor Aperture 1,52 mm x 1,27 mm [0.060 in x 0.050 in]

3,18 mm [0.125 in]

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