

Honeywell Sensing and Control

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HOA6985-N51



HOA Series IR Transmissive Optoschmitt Sensor, Transistor Output, No Mounting Tab, 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 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 The HOAG98X/699X series consists of an intrared 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 HOAG98X series utilizes an IR transmissive polysulfone housing which features preschosting from without arterial produce processits the feature in features.

The Industrial Minimum and Industrial Minimum for use in applications in which maximum rejection of ambient light is important, and situations in which maximum rejection of ambient 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.

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. Wire color code and functions are:

Red - IRED Anode Black - IRED Cathode Green - Detector Ground White - Detector Vcc

Blue - Detector Output

Supporting Documentation Dimensions

Schematics and Performance Charts

Engineering Drawing

Series Name Optoschmitt Sensor Product Type IR Switch Output 10 kOhm Pull - up 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 µ A 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 Voltage 2.4 V minimum High Level Supply Current 15 mA Low Level Output Voltage 0.4 V maximun Low Level Supply Current 15 mA Output Fall Time 70 ns Propagation Delay, Low Low - High, High 5.0 µs Duration of Output Short Vcc or Ground IRED Trigger Current 15 mA IRED Anode Color Red IRED Cathode Color Black Detector Vcc Color White Blue Detector Ground Color Green Comment Output is HI when incident light intensity is above the turn threshold level. Availability Sensor Aperture 1,52 mm x 0,25 mm [0.060 in x 0.010 in]

3,18 mm [0.125 in]

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Slot Width