Honeywell

Honeywell Sensing and Control

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HOA Series IR Opaque Optoschmitt Sensor, Transistor Output, Single Mounting Tab, Emitter Side, 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 width 24.0 in [610 mm] min. 26 AWG UL 1429 w ire leads

Description

Description The HOA698X/699X series consists of an infrared emitting diode facing an Optoschnitt detector encased in a black thermoplastic housing. Detector sw tiching takes place whenever 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 HOA698X series utilizes an R transmissive polysulfone housing which features prevents output configuration and the moust one provide the participate in the part texture in the series of the part of the series of the part of the participation of the part of the p

The HOAGBOA Series buildes an K transmissive polysuitothe 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 polysuifone housing with 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 HOA698X(699X series employs plastic molded components. For additional component information cos SCIDE676 and CD02YUK see SEP8506 and SDP8XX4.

see SEP8506 and SDP8XX4. Housing material is polysuifone. 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 H w hen optical path is blocked. Wire color code and functions are: Red - RED Anode Black. IRED Cothede

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

Blue - Detector Output

Supporting Document	ation	
Dimensions	Schematics and Performance Charts	Engineering Drawing

Product Specifications		
Series Name	Optoschmitt Sensor	
Product Type	IR Switch	
Output	Open-Collector	
Output Logic	Inverter	
Mounting Configuration	Single Mounting Tab, Emitter Side	
Package Components	Plastic	
Package Color	Black	
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]	
Hysteresis (H)	0.05	
Operating Supply Voltage	4.5 V to 12.0 V	
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- Low	5.0 µs	
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	
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		

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