# Honeywell

## **Honeywell Sensing and Control**

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HOA Series IR Opaque Optoschmitt

Mounting Tab, Detector Side, Plastic

Sensor, Transistor Output, Single

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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**

The HOA698X/699X series consists of an infrared emitting diode facing an Optoschmitt detector encased in a black thermoplastic ho takes place whenever an opaque object passes through and detector. The photodetector consists of a photodiode regulator, Schmitt trigger and various output configuration from available options:(1) detector aperture, (2) mounting detector output configuration, and (4) housing material.

Package

The HOA698X series utilizes an IR transmissive polysulfo features smooth optical faces without external aperture desirable when aperture blockage from airborne contami HOA699X series employs an opaque polysulfone housing for use in applications in which maximum rejection of amb situations in which maximum position resolution is desired series employs plastic molded components. For additional see SEP8506 and SDP8XX4.

Housing material is polysulfone. Housings are soluble in c and ketones. Recommended cleaning agents are methan 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



busing. Detector sw itching the slot betw een emitter e, amplifier, voltage ns. The user can choose g tab configuration, (3)	
one housing w hich openings; this feature is nants is a possibility. The g w ith aperture openings bient light is important, and d. The HOA698X/699X Il component information	
chlorinated hydrocarbons ol and isopropanol.	

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Product Specifications	
Series Name	Optoschmitt Sensor
Product Type	IR Switch



Output	Totem-Pole
Output Logic	Inverter
Mounting Configuration	Single Mounting Tab, Detector 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 7.0 V
Supply Voltage	7.0 Vdc
High Level Output Voltage	2.4 V minimum
High Level Supply Current	15 mA
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
IRED Anode Color	Red
IRED Cathode Color	Black
Detector Vcc Color	White
Detector Output Color	Blue
Detector Ground Color	Green
Comment	Output is LO when incident light intensity is above the turn-on threshold level.
Availability	Global
Sensor Aperture	1,52 mm x 0,25 mm [0.060 in x 0.010 in]
Slot Width	3,18 mm [0.125 in]