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HOA0708-107



Actual product appearance may vary.

HOA Series Infrared Reflective Sensor, Transistor Output, Plastic Package

Features

- Choice of phototransistor or photodarlington output
- Focused for maximum response
- Ambient light and dust protective filter
- Adjustable mounting slot

Description

The HOA0708/0709 series consists of an infrared emitting diode and an NPN silicon phototransistor (HOA0708-001, -011) or photodarlington (HOA0709001, -011) encased side-by-side on converging optical axes in a black thermoplastic housing. The detector responds to radiation from the IRED only when a reflective object passes within its field of view. The HOA0708-011 and HOA0709-011 employ an IR transmissive filter to minimize the effects of visible ambient light and provide a smooth optical face which prevents the accumulation of airborne contaminants in the optical path. The HOA0708/0709 series employs plastic molded components. For additional component information see SEP8505, SDP8405, and SDP8105. Housing material is polycarbonate. Housings are soluble in chlorinated hydrocarbons and ketones. Recommended cleaning agents are methanol and isopropanol.

Supporting Documentation

- Dimensions
- Schematic
- Performance Charts

Product Specifications	
Series Name	Reflective Sensor
Product Type	IR Switch
On - State Collector Current	1.0mA min. - 2.5mA max.
Output	Transistor
Package Components	Plastic
Forward Current	40 mA
Continuous Forward Current	50 mA
Forward Voltage	1.6 V
Reverse Current	10 μ A
Rise and Fall Time	75 μ s
Power Dissipation	70 mW
Operating Temperature Range	- 40 °C to 85 °C [- 40 °F to 185 °F]
Dark Current	250 nA
Collector - Emitter Breakdown Voltage	15 V
Emitter - Collector Breakdown Voltage	5 V
Collector - Emitter Saturation Voltage	1.1 V
Availability	Global
Optimum Point of Response	3,81 mm [0.15 in]

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