



HOA6299-003



Actual product appearance may vary.

**HOA Series Transmissive Sensor,
Through Beam Module, Chassis Mount,
Plastic Package**

Features

- Emitter and detector in separate modules for variable spacing
- Internal current limiting resistor
- Direct TTL interface
- Buffer logic
- Fast response time
- Dust-protective housing

Potential Applications

- Edge detection
- Position control
- Parts counting
- Mail sorting

Description

The HOA6299 Series through beam infrared sensor modules operate as a pair. The infrared emitting diode, HOA6299-002, and the detector, HOA6299-003, are encased in black thermoplastic housings. Both the emitter and detector modules employ 24 AWG wire leads which are terminated with a Panduit CE156F24-2 connector for the HOA6299-002, and a Panduit CE156F24-3 connector for the HOA6299-003.

The detector's NPN output switches whenever an opaque object blocks the beam path. The buffer logic provides a logic high when the optical path is clear, and a logic low when the optical path is blocked. The internal current limiting resistor in the emitter module eliminates the need for an external interface circuit. The HOA6299 series employs an IR transmissive housing which features smooth optical faces without external aperture openings; this feature is desirable when aperture blockage from airborne contaminants is a possibility.

The HOA6299 Series through beam modules are tested to ensure operation at minimum separation of (63,5 mm) 2.5 in. This gap can easily be changed for applications with other spacing requirements. Housing material is IR transmissive polysulfone. Housings are soluble in chlorinated hydrocarbons and ketones. Recommended cleaning agents are methanol and isopropanol.

Product Specifications	
Series Name	Transmissive Sensor
Product Type	IR Switch
Output	2.4 kOhm Pull-up
Output Logic	Buffer
Package Style	Chassis Mount
Mounting Configuration	Single Mounting Hole, 3,18 mm [0.125] dia.
Package Components	Plastic
Package Color	Black
Housing Material	Polysulfone, IR Transmissive
Operating Temperature Range	0 °C to 50 °C [-4 °F to 185 °F]
Operating Supply Voltage	4.5 V to 12.0 V
Supply Voltage	4.5 Vdc to 12.0 Vdc
High Level Output Voltage	4.5 V minimum
Low Level Output Voltage	0.4 V maximum
Output Sink Current	10 mA minimum
Comment	Output is LO when incident light intensity is above the turn-on threshold level or when optical path is blocked
Availability	Global
Optimum Point of Response	Greater than 63,5 mm [2.5 in]