IV-H150MA

Industrial automation components

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Manufacturer	Keyence
Catalog number	iv-h150ma
Category	Industrial automation components
Product type	Industrial automation components
Status	Active product

Technical specification

Installation Distance	50 to 150 mm
Field of View	12 (H) × 9 (V) mm to 36 (H) × 27 (V) mm
Image Sensor	1/3-inch monochrome CMOS
Resolution	752 (H) × 480 (V) pixels
Focus Adjustment	Automatic
Exposure Time	1/20 to 1/25,000 seconds
Illumination	Red LED
Lighting Method	Pulse or DC lighting
Detection Tools	16 tools
Position Adjustment Tool	1 tool
Programmable Settings	32 programs

Description

The Keyence IV-H150MA is a short-range vision sensor designed for precise image recognition tasks in industrial automation. Operating within an installation distance of 50 to 150 mm, it offers a field of view ranging from 12 (H) × 9 (V) mm at 50 mm to 36 (H) × 27 (V) mm at 150 mm.

Equipped with a 1/3-inch monochrome CMOS image sensor with a resolution of 752 (H) × 480 (V) pixels, it ensures high-quality imaging. The sensor features automatic focus adjustment for optimal image clarity and supports exposure times from 1/20 to 1/25,000 seconds.

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Its built-in red LED illumination provides consistent lighting, with selectable pulse or DC lighting modes. The IV-H150MA offers 16 detection tools and one position adjustment tool, with 32 programmable settings for versatile application.

It includes six inputs (IN1 to IN6) and four outputs (OUT1 to OUT4), with open collector outputs that are NPN/PNP switchable and N.O./N.C. switchable, supporting a maximum rating of 26.4 V 50 mA. The sensor operates on a 24 VDC ±10% power supply and consumes 0.6 A or less.

It features an M12 4-pin connector for Ethernet connectivity, supporting FTP client, EtherNet/IP™, and PROFINET protocols. Designed for durability, the IV-H150MA has an IP67 enclosure rating, ensuring resistance to dust and water ingress.

It operates within an ambient temperature range of 0 to +50°C and a relative humidity range of 35 to 85% RH, excluding condensation. The sensor is constructed with an aluminum die-cast main unit case, NBR packing, acrylic front cover, and POM mounting adapter, weighing approximately 270 g.