

Keyence IV3-400MA

Model: IV3-400MA

Brand: Keyence

Series: IV3 Series

Vision sensor with built-in AI, narrow field of view smart camera, monochrome type.

—— Hardware ——

Type: Smart camera, narrow view

Installed distance: 400 mm or more

Field of view: Installation distance 400 mm: 58 (H) x 44 (V) mm to installation distance 3000 mm: 464 (H) x 348 (V) mm

Image receiving element: 1/2.9 inch monochrome CMOS, 1280 (H) x 960 (V) pixels

Focus adjustment: Auto

Exposure time: 12 μ s to 10 ms

Illumination: Infrared LED

Lighting method: Pulse lighting

Number of tools: 65 tools

Available modes: Standard mode / Sorting mode

—— Communication ——

Built-in ports: M12 8-pin X-code female Ethernet (1000BASE-T/100BASE-TX), M12 12-pin A-code male power/I/O

Protocols: EtherNet/IP, PROFINET (Class B), TCP/IP non-procedure comm, FTP client, SFTP client

Communication expansion: None (DL Series communication units when connected via amplifier)

—— Electrical ——

Supply voltage: 24 VDC +25%/-20% (including ripple)

Power consumption: 3.3 A or less (without AI lighting unit, with output load); 1.8 A or less (with AI lighting unit, with output load)

Output type: Photo MOS relay output, N.O./N.C. switchable, maximum rating 30 V 50 mA

PoE: PoE Power Class 3/4/6

Number of inputs: 6 (3 selectable IN/OUT)

Number of outputs: 6 (3 selectable IN/OUT)

—— Environmental ——

Operating temperature: 0 to +50° C (no freezing)

Relative humidity: 35 to 85% RH (no condensation)

Protection rating: IP67 (except when polarizing filter OP-88640/OP-88641/OP-88644/OP-88645 is

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mounted)

Vibration resistance: 10 to 55 Hz, double amplitude 1.5 mm, 2 hours in each of X/Y/Z directions (except when dome attachment IV3-D10 is mounted)

Shock resistance: 500 m/s², 3 times in each of 6 directions (except when dome attachment IV3-D10 is mounted)

—— Physical ——

Dimensions (H×W×D): Not available

Material: Main unit case: Aluminum die-casting/PBT/TPU. Indicator light cover: TPU. Ethernet connector: Aluminum die-casting/LCP. Front cover: Acrylic (hard coating). Power connector: Aluminum die-casting/LCP. Nameplate: PET. Waterproof cap for Power connector: PC+ABS alloy. Waterproof cap for Ethernet connector: PC.

Weight: Approx. 300 g (without AI lighting unit), approx. 495 g (with AI lighting unit)

—— Lifecycle ——

Active; official Keyence production status confirmed via product/spec page (Last verified: 2026-09)



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