Keyence IV4-400MA

Model: IV4-400MA
Brand: Keyence
Series: IV4 Series

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

—— Hardware ——
Type: Smart camera, narrow field of view model
Installed distance: From 400 mm
Field of view: Installation distance 400 mm: 58 (H) x 44 (V) mm to installation distance 3000 mm: 464 (H) x 348 (V) mm (reference value)
Image receiving element: 1/2.9 inch monochrome CMOS, 1280 (H) x 960 (V) pixels
Focus adjustment: Auto
Exposure time: 12 us to 10 ms
Illumination: Infrared LED
Lighting method: Pulse lighting
Number of tools: 65 tools
Available modes: Standard Mode, Sorting Mode, AI Through Count Mode

—— Communication ——
Built-in ports: M12 8-pin X-code female Ethernet connector (1000BASE-T/100BASE-TX)
Protocols: EtherNet/IP, PROFINET CC-B, TCP/IP non-procedural comm (x2), FTP client, SFTP client, SNTP client, OPC UA server, MQTT client
Communication expansion: IV4-CU1 communication unit (PROFINET CC-C, EtherCAT); DL Series units (EtherCAT, CC-Link, DeviceNet, RS-232C)

—— Electrical ——
Supply voltage: 24 VDC +25%, -20% (including ripple)
Power consumption: 3.4 A or less at 19.2 V / 2.7 A or less at 24.0 V (no AI imaging illumination unit; with communication unit; includes 120 mA output load)
Average power consumption: 9.3 W (without AI imaging illumination unit), 12.8 W (with AI imaging illumination unit)
Output type: Open collector output, NPN/PNP switchable, N.O./N.C. switchable, maximum rating 30 V 50 mA
PoE: PoE Power Class 4/6
Number of inputs: 6 (3 selectable IN/OUT)
Number of outputs: 6 (3 selectable IN/OUT)

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—— Environmental ——

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

Relative humidity: 85% RH or less (no condensation)

Protection rating: IP67 (except when polarizing filters OP-88640/OP-88641/OP-88644/OP-88645 are installed)

Vibration resistance: 10 to 500 Hz, 0.816 G^2/Hz, X/Y/Z directions

Shock resistance: 500 m/s^2, 3 times in each of 6 directions

—— Physical ——

Dimensions (H×W×D): Not available

Material: Main unit case: Aluminum die-casting. Front cover: Acrylic (hard coating). Back plastic cover and plastic lid: PBT. Operation indicator cover: TPU. Power supply connector: PA/POM. Ethernet connector: Copper alloy + nickel plating. Label: PC. Power supply connector waterproof cap: PC + ABS alloy. Ethernet connector waterproof cap: PC. ESD safe, IEC61340-5-1 compliant.

Weight: Approx. 370 g (no AI imaging illumination unit), approx. 560 g (with AI imaging illumination unit)

—— Lifecycle ——

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

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