

VSPM-6B2413







Vision sensors Inspector, Inspector PIM-series, Inspector PIM60-IR Base

Model Name > VSPM-6B2413 Part No. > 1064566

At a glance

- · High-speed positioning, inspection and measurement
- Expanded toolbox for diameter, angle and flexible distance measurement
- Multiple, simultaneous inspection of blobs, patterns, edges and pixel counting
- · Image calibration, including mm output
- Configurable communication through EtherNet/IP and TCP/IP
- Simple, out-of-the-box web server
- · Import of customized web pages

Your benefits

- The multi-functional vision toolbox offers smart camera-level performance but with sensor ease-of-use
- Flexible measurement tools enable super easy pass/fail verification of dimensions over digital outputs as well as exact measurement value over Ethernet
- The image calibration ensures reliable inspection results on moving and rotated objects in tilted setups, or when using wide angle lenses
- · Result calibration gives easy-to-use mm data, simplifying alignment and gripping
- The built-in web server is an easy and cost efficient way to monitor the production process
- Ability to design a customized user interface (style, logo and functionality) to easily visualize and control the data you need



Features

Task: Inspection

Measuring Positioning

Technology: 2E

Image analysis Snapshot

Toolset: Pattern
Blob locator

Blob locator Object locator Polygon

Pixel count, Edge pixel count

Distance, Angle Edge, Circle

Sensor: CMOS matrix sensor, gray scale values

Focus: Manually adjustable focus

Working distance: ≥ 50 mm

Working distance internal illumination: 50 mm ... 200 mm

Field of view internal illumination: Free of choice by lens selection



Light source: Infrared

Spectral range: Ca. 370 nm ... 900 nm

LED class: Risk group 0 (exempt risk, IEC62471 : 2006)

Offline support: Emulator

Calibration: Perspective and lens distortion correction, mm results

Performance

Resolution: 640 px x 480 px

Maximum performance: 200 fps
Typical performance: 40 fps
Number of inspections: 64

Reference images: 32 objects

Interfaces

Operator interfaces: Web server Configuration software: SOPAS

Data store and retrieve: Record images on PC

Store images to FTP 30 images device log

Communication interfaces: 100 MBit/s Ethernet

Ethernet communication: EtherNet/IP, TCP/IP, Web API

Digital inputs: 4 inputs (24 V)

Configurable inputs: Reference object selection

Encoder input External trigger External teach

Digital outputs: 3 outputs, 24 V (B-type)

Configurable outputs: Output by logical expressions, Store images to FTP overflow

Output current: 100 mA

Default outputs: All pass
Any fail

No object detected

Maximum encoder frequency: 40 kHz
Control of external illumination: 5 V TTL
I/O Box extension: 16 outputs

5 x inputs for object selection

Mechanics/electronics

Connectors: M12, 12-pin male connector

M12, 4-pin female connector

Supply voltage: 24 V DC± 20 %

Power consumption: < 450 mA Without output load

Ripple: < 5 Vpp

Enclosure rating: IP 67 (with front window mounted)

Housing material: Aluminum

Window material: No front window included

Weight: 350 g

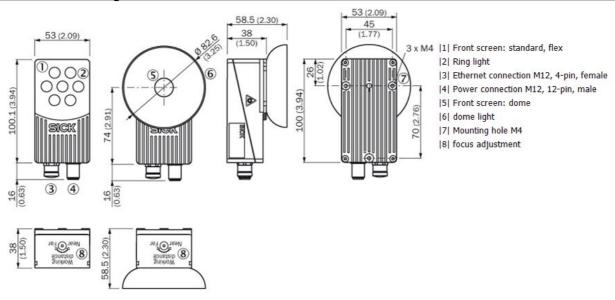
Dimensions (L x W x H): 100 mm x 53 mm x 38 mm Optics: Not included (M12-mount)

Ambient data

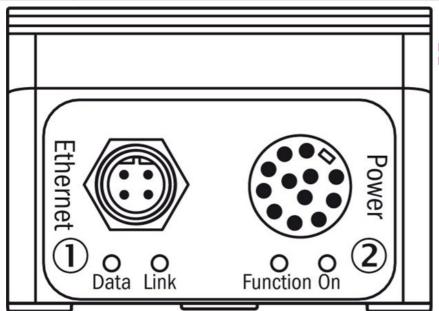
Shock load: EN 60068-2-27 Vibration load: IEC 60068-2-6 Ambient operating temperature $^{1)}$: 0 °C ... 45 °C

1) 2) Relative humidity: 35 % ... 85 %, 95 % at operation

Dimensional drawing

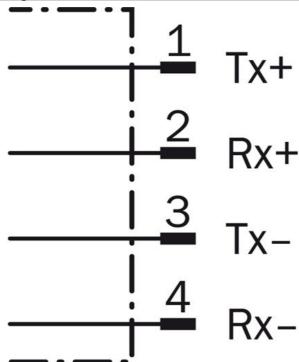


Connection type

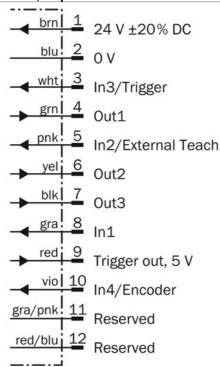


- |1| Ethernet connection M12, 4-pin, female
- |2| Power connection M12, 12-pin, male

Connection diagram Ethernet

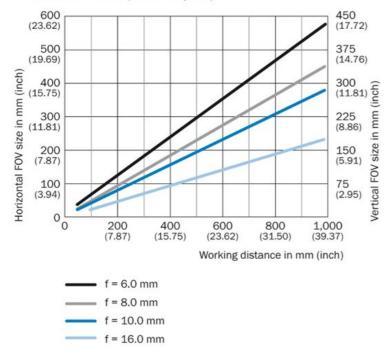


Connection diagram M12, 12-pin



Field of view

Theoretical FOV size (640 x 480 pixels)



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