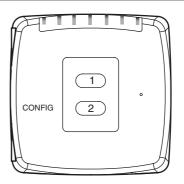
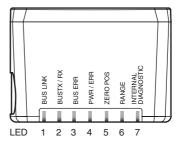


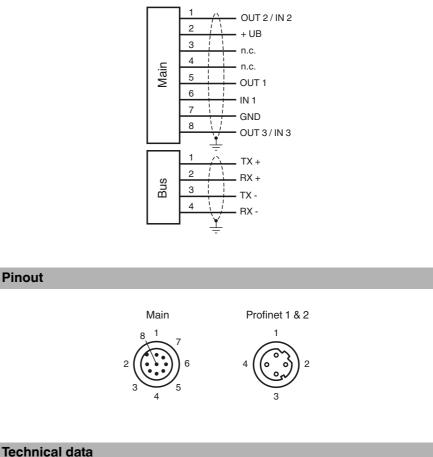
The sensor has been developed for the precision positioning of high-bay racking operating equipment. It detects circular holes in the racking structure and their positional deviation from the nominal position. The sensor operates in two dimensions.

Indicating / Operating means





Electrical connection



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1

Integrated LED lightning (infrared)

Hole diameter 13 mm

max 120 mm x 100 mm

CMOS, Global shutter

LED green: Ready for operation

Button for parameterization

24 V DC +/- 15 %. PELV

100 BASE-TX PROFINET

-30 ... 85 °C (-22 ... 185 °F)

90 %, noncondensing

max. 400 mA

100 MBit/s

EN 61000-6-2:2005

6 W

IP67

CE

PC/ABS

Plastic pane

approx. 200 g

4 x M6 threading

7 LEDs (communication, alignment aid, status information)

PROFINET IO Real-Time (RT) Conformance class A

0 ... 60 °C (32 ... 140 °F) , $\,$ -20 ... 60 °C (-4 ... 140 °F) (noncondensing; prevent icing on the lens!)

cULus Listed, General Purpose, Class 2 Power Source

CCC approval / marking not required for products rated ≤36 V

752 x 480 pixels

100 ms

200 mm

± 50 mm

256

20 a

10 a

0%

 U_B

 I_0

 P_0

General specifications Light type Object size Response delay Read distance Depth of focus Capture range Nominal ratings Camera Туре Number of pixels Gray scale Functional safety related parameters MTTF_d Mission Time (T_M) Diagnostic Coverage (DC) Indicators/operating means Operation indicator Function indicator Control elements **Electrical specifications** Operating voltage No-load supply current Power consumption Interface Interface type Protocol Transfer rate Standard conformity Noise immunity Ambient conditions Operating temperature Storage temperature Relative humidity Mechanical specifications Degree of protection Material

Housing Optical face Installation Mass

Approvals and certificates

UL approval CCC approval Approvals

Curves / Diagrams

Capture range X (width) reading distance

Accessories V19-G-5M-PUR-ABG Female cordset, M12, 8-pin, shielded,

PUR cable

V1SD-G-2M-PUR-ABG-V1SD-G Ethernet bus cable, M12 to M12, PUR cable 4-pin, CAT5e

V1SD-G-5M-PUR-ABG-V1SD-G Ethernet bus cable, M12 to M12, PUR cable 4-pin, CAT5e

PCV-MB1 Mounting bracket for PCV* read head

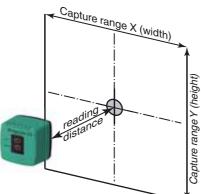
PCV-SC12A Grounding clip for PCV system

PCV-SC12 Grounding clip for PCV system

V19-G-2M-PUR-ABG Female cordset, M12, 8-pin, shielded, PUR cable

V19-G-10M-PUR-ABG Female cordset, M12, 8-pin, shielded, PUR cable

Other suitable accessories can be found at www.pepperl-fuchs.com



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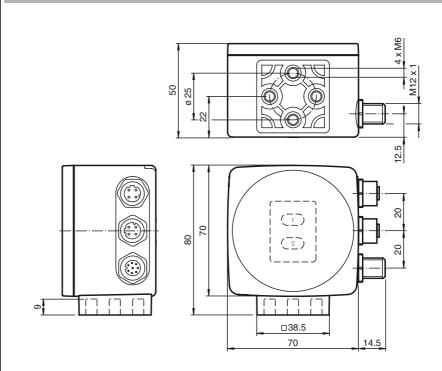
Refer to "General Notes Relating to Pepperl+Fuchs Product Information"

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Dimensions



General

The PHA... Vision Sensor has been developed for the rack fine positioning of stock feeders. This device detects circular holes in the rack structure and determines the position deviation of these holes in relation to the target position. The Vision Sensor operates in two dimensions.

Mounting and Commissioning

Mount the PHA... Vision Sensor in such a way that the optical surface of the device captures the optimum distance to the carrier/hole (see "Technical Data"). The stability of the Vision Sensor mounting and the manner in which the vehicle is guided must ensure that the device is not operated outside of its depth of focus range.

All Vision Sensors can be adapted to optimally meet specific requirements by means of parameterization.

Indicators and Controls

The PHA... Vision Sensor is equipped with seven indicator LEDs for carrying out visual function checks and rapid diagnostics. The read head is equipped with two buttons at the back for activating the parameterization mode.

LEDs

| LED | Color | Labeling | Meaning |
|-----|------------------|---------------------|---------------------------------------|
| 1 | yellow | BUS LINK | PROFINET communication active |
| 2 | yellow | BUS TX / RX | Data transfer |
| 3 | red | BUS ERR | PROFINET communication error |
| 4 | green/red | PWR/ERR | Fault with power supply/general error |
| 5 | yellow | ZERO POS | Zero position reached |
| 6 | yellow | RANGE | Within detection/capture range |
| 7 | red/green/yellow | INTERNAL DIAGNOSTIC | Internal diagnostics |

External Parameterization

In order to parameterize the device externally, the parameterization code is required in the form of a data matrix containing the desired parameters. Data matrix code cards detailing the stepby-step process for externally parameterizing the device are printed in the operating instructions for the Vision Sensor.

The Vision Sensor is switched over from normal operation to parameterization mode using button 2 on the back of the device. To switch the device over, button 2 must be pressed and held for more than two seconds. LED5 then flashes.

Note: Parameterization mode is exited automatically if the device is inactive for one minute. In this case, the Vision Sensor reverts to normal mode and operates without the settings having been changed.

- Place the parameterization code in the field of vision of the camera module. After the parameterization code is detected, the green LED4 lights up for one second. In the event of an invalid parameterization code, LED4 lights up red for two seconds.
- Briefly pressing button 2 will end parameterization mode. Unsaved changes will be lost.

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