



## Handheld reader

### OHV10-F228-R2

- All common 1-D or 2-D codes can be read
- Reads from reflective surfaces
- Audible, tactile, and visual user feedback
- Degree of protection IP54

Handheld reader for all common 1-D and 2-D codes

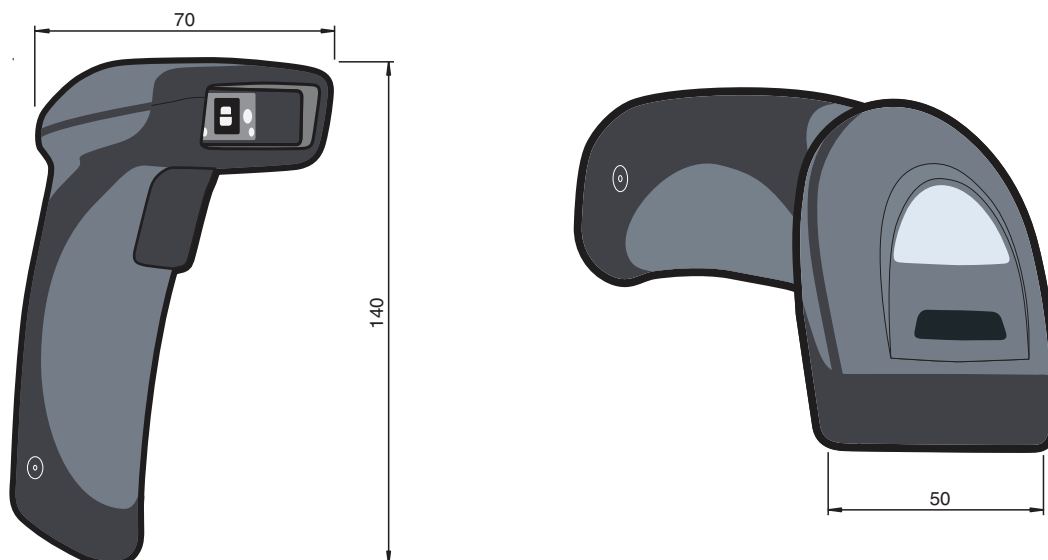


## Function

The handheld is a compact handheld reader for all common 1-D and 2-D codes. Special technology to prevent glare allows the device to accurately read codes on highly reflective surfaces. With a resolution of 1.2 million pixels, it can read both small and large codes from a wide range of distances. A different-colored target projection makes it easier to see the relevant code. Feedback comes in the form of a visual or audible signal or a vibration.

Data is transferred via USB or RS-232, depending on which connection cable is selected. With its robust housing and IP54 protection, the handheld reader is ideally suited to heavy-duty industrial use.

## Dimensions



## Technical Data

### General specifications

Light type

Integrated LED lightning (red)

## Technical Data

|                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|-------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Readable codes                                  | <b>1-D Codes:</b> Codabar, Code 11, Code 32, Code 39, Code 93, Code 128, Interleaved 2 of 5, GS1 DataBar, Hong Kong 2 of 5, Matrix 2 of 5, MSI Plessey, NEC 2 of 5, Pharmacode, Plessey, Straight 2 of 5, Telepen, Trioptic, UPC/EAN, BC412<br><b>Gestapelte 1-D Codes:</b> Codablock F, Code 49, GS1 Composite (CC-A/CC-B/CC-C), MicroPDF, PDF417<br><b>2-D Codes:</b> Aztec Code, Data Matrix, Data Matrix Rectangular, Grid Matrix, Han Xin, Maxicode, Micro QR Code, QR Code, QR Model 1<br><b>Post Codes:</b> Australian Post, Canada Post, Intelligent Mail, Japan Post, KIX Code, Korea Post, Post-Net, Planet, Postnet, UK Royal Mail, UPU ID-tags |
| Read distance                                   | 40 ... 310 mm depending on the code type                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Reading field                                   | max. 190 mm x 290 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Modul size                                      | min. 0.2 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Ambient light limit                             | 96890 Lux                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Target velocity                                 | Stop                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Nominal ratings</b>                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Camera</b>                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Type                                            | CMOS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Number of pixels                                | 1280 x 960                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Image recording                                 | real-time , manually triggered                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Indicators/operating means</b>               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Function indicator                              | LED green: Data carrier read                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Electrical specifications</b>                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Supply                                          | via cable                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Interface</b>                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Physical                                        | USB 2.0 , RS-232                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Compliance with standards and directives</b> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Standard conformity                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Noise immunity                                  | EN 55024:2010                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Emitted interference                            | EN 55032:2012+AC:2013                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Ambient conditions</b>                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Ambient temperature                             | -20 ... 55 °C (-4 ... 131 °F)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Storage temperature                             | -30 ... 65 °C (-22 ... 149 °F)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Relative humidity                               | 5 ... 95 % non-condensing                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Shock and impact resistance                     | Withstands multiple drops from 1.8 m / 6 ft onto a concrete surface                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Mechanical specifications</b>                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Degree of protection                            | IP54                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Connection                                      | System connector for connecting cable                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Material</b>                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Housing                                         | plastic                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Mass                                            | 110 g                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Dimensions                                      | 70 mm x 50 mm x 140 mm (l x w x h)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Height                                          | 140 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Width                                           | 50 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Length                                          | 70 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>General information</b>                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Scope of delivery                               | Handheld reader                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |

## Connection

| Pin | Signal           |
|-----|------------------|
| 1   | +VIN             |
| 2   | USB_DM           |
| 3   | USB_DP           |
| 4   | RS 232 TX        |
| 5   | RS 232 RTS       |
| 6   | RS 232 RX        |
| 7   | RS 232 CTS       |
| 8   | External Trigger |
| 9   | not connected    |
| 10  | Ground           |

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

Pepperl+Fuchs Group  
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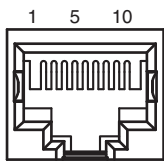
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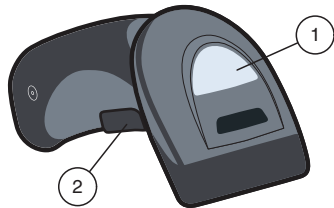
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 **PEPPERL+FUCHS**

Connection Assignment



Assembly



|   |                    |       |
|---|--------------------|-------|
| 2 | Functional display | green |
| 3 | Trigger button     |       |

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