



**Model Number**

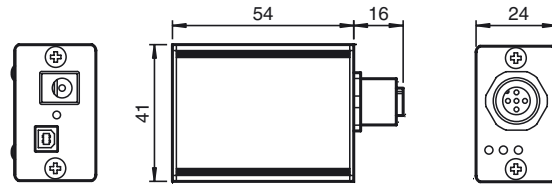
**IO-Link-Master02-USB**

IO-Link Master  
with M12 x 1 connector socket, 5-pin

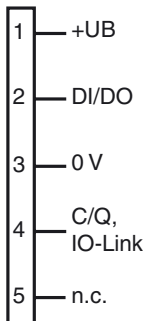
**Product information**

The IO-Link USB master is used for communication with IO-Link devices. Its purpose is to connect IO-Link sensors to a PC USB port. Following installation of the supplied FDT tools, connected IO-Link sensors can be conveniently configured and parameterized. Sensor diagnostics is also possible. For sensors with a low current consumption, power is supplied directly via the USB master. For sensors with a higher current consumption, an additional external power supply is available. The device is extremely well suited for testing purposes and for commissioning and service operations.

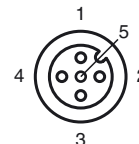
**Dimensions**



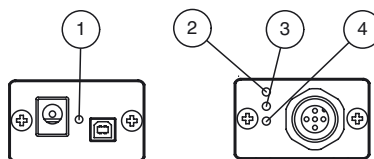
**Electrical connection**



**Pinout**



**Indicators/operating means**



|   |                            |              |
|---|----------------------------|--------------|
| 1 | Operating display          | yellow       |
| 2 | Signal display CH1 (C/Q)   | green/yellow |
| 3 | Signal display CH2 (DI/DO) | yellow       |
| 4 | Error display              | red          |

Release date: 2013-09-11 21:06 Date of issue: 2014-02-03 256833\_eng.xml

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

**Technical data****Indicators/operating means**

|                    |  |
|--------------------|--|
| Function indicator | communication: LED green<br>status display: LED yellow<br>diagnostic display: LED red<br>Operating voltage indicator: yellow LED |
|--------------------|--|

**Electrical specifications**

|                   |       |                      |
|-------------------|-------|----------------------|
| Operating voltage | $U_B$ | 24 V DC / USB 5 V DC |
| Operating current |       | < = 500 mA           |

**Interface**

|                      |  |
|----------------------|--|
| Interface type       | IO-Link  |
| Protocol             | IO-Link V1.1 , IO-Link V1.0                                  |
| Supported baud rates | COM 1 (4.8 kBaud) , COM 2 (38.4 kBaud) , COM 3 (230.4 kBaud) |

**Output**

|              |   |
|--------------|---|
| Load current | max. 80 mA via USB for sensor supply voltage<br>1 A via external power supply |
|--------------|---|

**Ambient conditions**

|                     |                                |
|---------------------|--------------------------------|
| Ambient temperature | 0 ... 45 °C (32 ... 113 °F)    |
| Storage temperature | -40 ... 80 °C (-40 ... 176 °F) |
| Relative humidity   | 95 % non-condensing            |

**Mechanical specifications**

|                   |  |
|-------------------|--|
| Protection degree | IP20 (when properly connected)   |
| Connection        | IO-Link port: 5-pin, M12x1 connector, A-coded<br>Operating voltage : DC-9, 2.1 mm<br>USB 2.0 : MiniB USB plug-in connector |

**Material**

|         |               |
|---------|---------------|
| Housing | aluminum      |
| Mass    | approx. 100 g |

**General information**

|                   |  |
|-------------------|--|
| Scope of delivery | USB connection cable<br>24 V DC power supply<br>IO-Link USB Master 2.0 |
|-------------------|--|

**Approvals and certificates**

|           |    |
|-----------|----|
| Approvals | CE |
|-----------|----|

**Accessories****V19-G-EMV-BK0,3M-PVC-V19-G**

Double-ended cordset, M12 to M12, with EMC filter, 8-pin, PVC cable

**V19-G-BK2M-PUR-U-V1-G**

Connection cable, M12 to M12, 8/4-pin, PUR cable

**IO-Link USB Master DTM 2.0**

Communication DTM for operating the IO-Link USB Master 2.0

**PACTware 4.X**

FDT Framework

**IODD Interpreter DTM**

Software for the integration of IODDs in a frame application (e. g. PACTware)

**V15-G-1M-PUR-V15-G**

Connecting cable, M12 to M12, PUR cable 5-pin

Other suitable accessories can be found at [www.pepperl-fuchs.com](http://www.pepperl-fuchs.com)