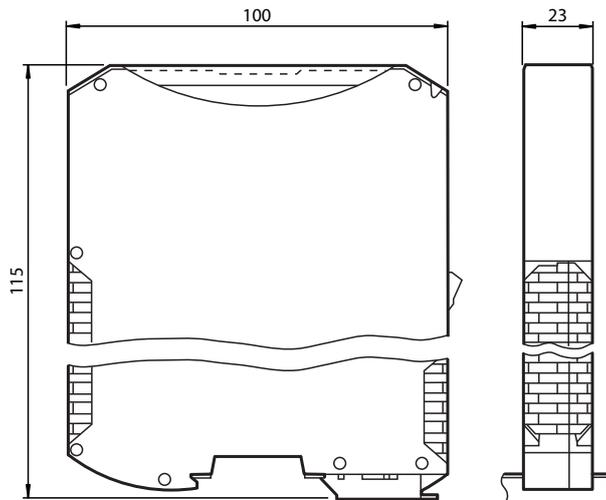# Interface module
# VLX-F231-B17

- Up to 4 sensors can be connected
- DIN rail mounting
- Ethernet interface with PROFINET
- Integrated switch

Interface module with PROFINET interface for SmartRunner

CE  UK CA

## Dimensions



## Technical Data

**General specifications**

| Installation | | DIN rail mounting |
|---|---|---|

**Functional safety related parameters**

| $MTTF_d$ | | 180 a |
|---|---|---|
| Mission Time ($T_M$) | | 10 a |
| Diagnostic Coverage (DC) | | 0 % |

**Electrical specifications**

| Operating voltage | $U_B$ | 10 ... 30 V DC |
|---|---|---|
| Power consumption | $P_0$ | ≤ 3.6 W (without read heads) |

**Interface 1**

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

Pepperl+Fuchs Group
www.pepperl-fuchs.com
USA: +1 330 486 0001
fa-info@us.pepperl-fuchs.com
Germany: +49 621 776 1111
fa-info@de.pepperl-fuchs.com
Singapore: +65 6779 9091
fa-info@sg.pepperl-fuchs.com

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## Technical Data

| | |
|---|---|
| Connection of | control system |
| Interface type | Ethernet; 100 BASE-TX |
| Protocol | PROFINET IO |
| Transfer rate | 100 MBit/s |
| Data output format | binary code |
| **Interface 2** | |
| Connection of | control system |
| Interface type | Ethernet; 100 BASE-TX |
| Protocol | PROFINET IO |
| Transfer rate | 100 MBit/s |
| Data output format | binary code |
| **Interface 3** | |
| Connection of | sensor |
| Interface type | RS485 |
| Protocol | half duplex |
| Transfer rate | 230 kBit/s |
| RS485 termination resistor | switchable |
| Refresh cycle of read head | 1 ms |
| **Standard conformity** | |
| Emitted interference | EN 55011, cl. A: 2007 |
| Noise immunity | EN 61000-6-2:2005 |
| **Approvals and certificates** | |
| CCC approval | CCC approval / marking not required for products rated ≤36 V |
| **Ambient conditions** | |
| Operating temperature | -25 ... 85 °C (-13 ... 185 °F) , no moisture condensation |
| Storage temperature | -40 ... 85 °C (-40 ... 185 °F) |
| Relative humidity | ≤ 80 % |
| **Mechanical specifications** | |
| Connection type | Interface 1 & 2: RJ-45 socket, 8-pin<br>Interface 3: terminal connection ≤ 2.5 mm$^2$<br>Interface 4: Terminal connection, 2-pin |
| Housing width | 23 mm |
| Housing height | 100 mm (without plug-in screw connector)<br>111 mm (incl. plug-in screw connector) |
| Housing depth | 115 mm |
| Degree of protection | IP20 |
| Material | plastic |
| Installation position | any position |
| Mass | approx. 150 g |

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

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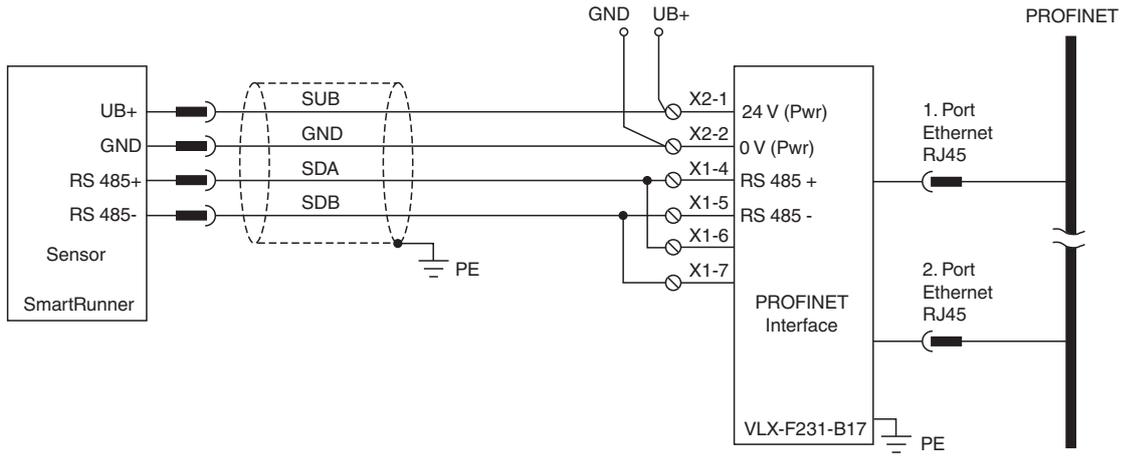www.pepperl-fuchs.com

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fa-info@sg.pepperl-fuchs.com

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## Connection

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fa-info@us.pepperl-fuchs.com

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fa-info@de.pepperl-fuchs.com

Singapore: +65 6779 9091
fa-info@sg.pepperl-fuchs.com

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