



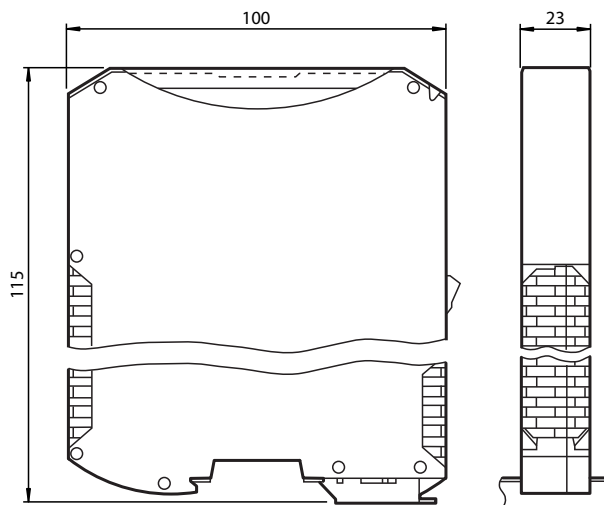
## Interface module VLX-F231-B25

- Up to 4 read heads can be connected
- DIN rail mounting
- EtherNet/IP
- Integrated switch

Interface module with EtherNet/IP interface for SmartRunner



### Dimensions



### Technical Data

#### General specifications

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

#### Functional safety related parameters

|                                |       |
|--------------------------------|-------|
| MTTF <sub>d</sub>              | 180 a |
| Mission Time (T <sub>M</sub> ) | 10 a  |
| Diagnostic Coverage (DC)       | 0 %   |

#### Electrical specifications

|                   |                |                              |
|-------------------|----------------|------------------------------|
| Operating voltage | U <sub>B</sub> | 10 ... 30 V DC               |
| Power consumption | P <sub>0</sub> | ≤ 3.6 W (without read heads) |

#### Interface 1

Release date: 2024-01-03 Date of issue: 2024-01-03 Filename: 310758\_eng.pdf

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

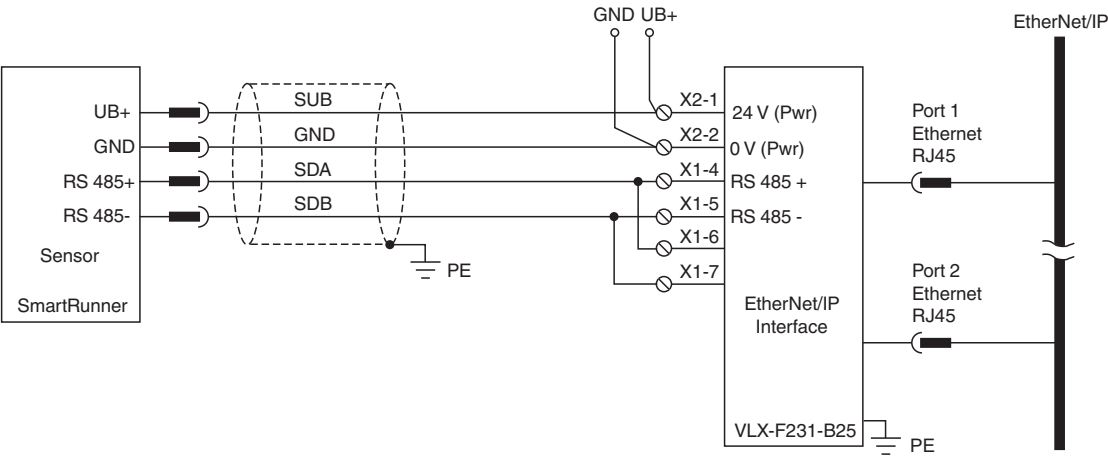
 **PEPPERL+FUCHS**

## Technical Data

|                                   |  |                                                                                                                                           |
|-----------------------------------|--|-------------------------------------------------------------------------------------------------------------------------------------------|
| Connection of                     |  | control system                                                                                                                            |
| Interface type                    |  | Ethernet                                                                                                                                  |
| Protocol                          |  | EtherNet/IP                                                                                                                               |
| Transfer rate                     |  | 10 MBit/s or 100 MBit/s                                                                                                                   |
| Data output format                |  | binary code                                                                                                                               |
| <b>Interface 2</b>                |  |                                                                                                                                           |
| Connection of                     |  | control system                                                                                                                            |
| Interface type                    |  | Ethernet                                                                                                                                  |
| Protocol                          |  | EtherNet/IP                                                                                                                               |
| Transfer rate                     |  | 10 MBit/s or 100 MBit/s                                                                                                                   |
| Data output format                |  | binary code                                                                                                                               |
| <b>Interface 3</b>                |  |                                                                                                                                           |
| 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                                                                                                                                      |
| <b>Standard conformity</b>        |  |                                                                                                                                           |
| Emitted interference              |  | EN 55011, cl. A: 2007                                                                                                                     |
| Noise immunity                    |  | EN 61000-6-2:2005                                                                                                                         |
| <b>Approvals and certificates</b> |  |                                                                                                                                           |
| CCC approval                      |  | CCC approval / marking not required for products rated ≤36 V                                                                              |
| <b>Ambient conditions</b>         |  |                                                                                                                                           |
| Operating temperature             |  | -25 ... 85 °C (-13 ... 185 °F) , no moisture condensation                                                                                 |
| Storage temperature               |  | -40 ... 85 °C (-40 ... 185 °F)                                                                                                            |
| Relative humidity                 |  | ≤ 80 %                                                                                                                                    |
| <b>Mechanical specifications</b>  |  |                                                                                                                                           |
| Connection type                   |  | Interface 1 & 2: RJ-45 socket, 8-pin<br>Interface 3: terminal connection ≤ 2.5 mm <sup>2</sup><br>Interface 4: Terminal connection, 2-pin |
| Degree of protection              |  | IP20                                                                                                                                      |
| Material                          |  | plastic                                                                                                                                   |
| Installation position             |  | any position                                                                                                                              |
| Mass                              |  | approx. 140 g                                                                                                                             |
| <b>Dimensions</b>                 |  |                                                                                                                                           |
| Width                             |  | 23 mm                                                                                                                                     |
| Depth                             |  | 115 mm                                                                                                                                    |

Release date: 2024-01-03 Date of issue: 2024-01-03 Filename: 310758\_eng.pdf

Connection



Release date: 2024-01-03 Date of issue: 2024-01-03 Filename: 310758\_eng.pdf