



## eloProg base modules Standard

The base module is a configurable safety control unit that can be used as a stand-alone device. Communication with expansion modules is through an internal 5-way bus.

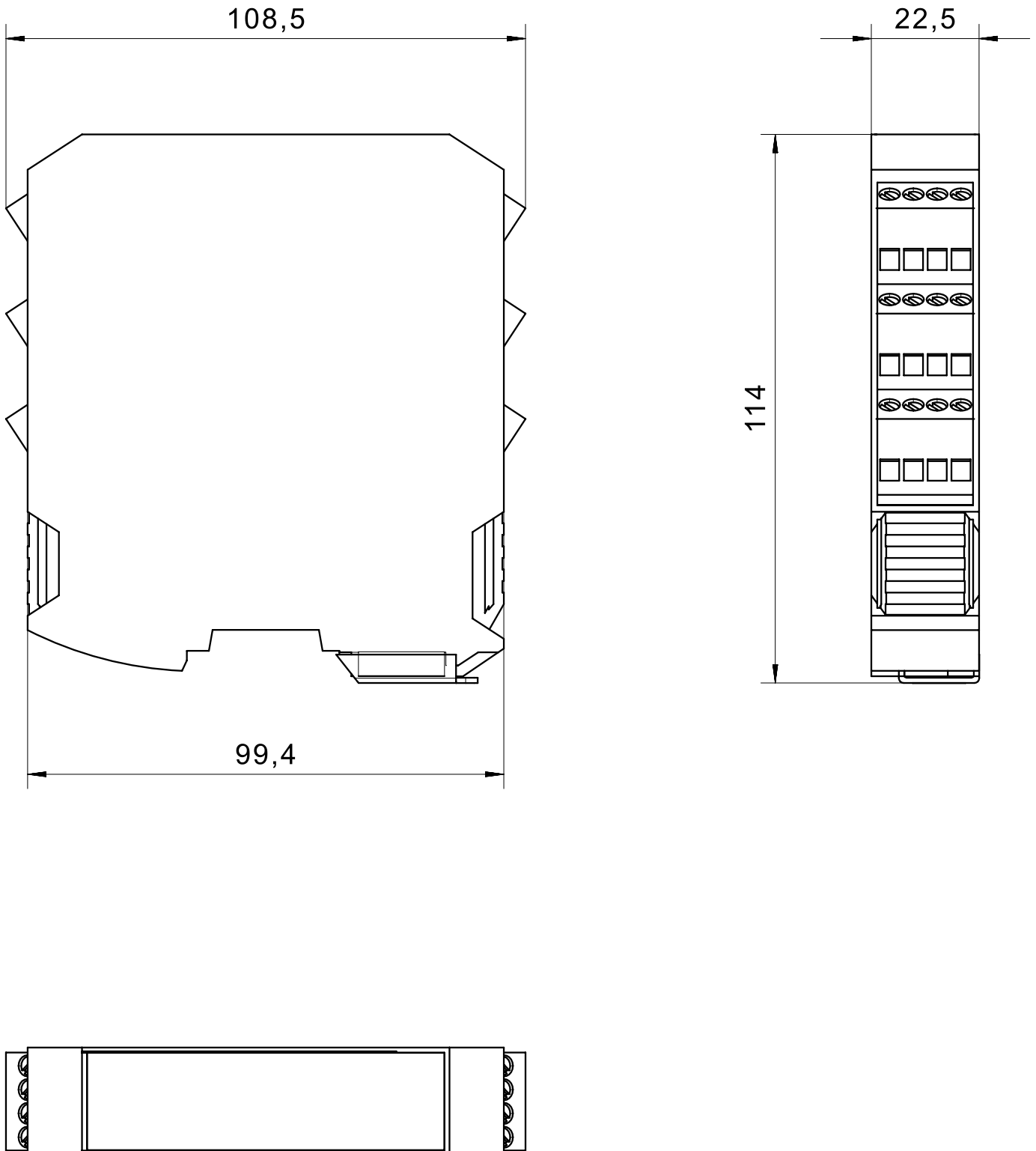
The safety function previously configured on the PC can be directly installed via USB. The base module also features a memory card slot.

### Technical specifications

- 8 safety inputs and 2 solid-state safety output pairs (4 outputs) enable use as a stand-alone device
- 4 test outputs for sensor monitoring
- Diagnostics via 2 configurable control outputs and LEDs
- 2 EDM inputs for monitoring of downstream contactors or connection of a start push button
- Up to 14 expansion modules (up to 4 devices of any given module variant) can be connected
- Optional 350EPT T-connector (proprietary 5-way bus) for space-saving connection of the base module with expansion modules
- Optional 350EPU USB cable for transferring the configuration to the base module
- Optional 350EPS memory card for data storage and base module configuration without PC

Technical drawing

IMAGE 1/1



### Article characteristics

Attribute	485EPB
Housing colour	Gehäuse schwarz Frontplatte gelb
Max. switching voltage at safety output	24 V DC
Max. switching voltage at control output	24 V DC
Max. switching current at safety output	0.4 A
Max. switching current at control output	0.1 A
Number of configurable electronic safety outputs	4
Number of electronic control outputs	2
Number of test outputs (clocked)	4
Number of safety inputs	8
Stop category 0 (STO) nach IEC 61800-5-2	Depending on the configuration
Stop category 1 (SS1) nach IEC 61800-5-2	Depending on the configuration
EDM/start input	Depending on the configuration
Start function	Depending on the configuration
Feedback circuit	Depending on the configuration
Start-up test present	Depending on the configuration
LED display	five-coloured
Overvoltage category	II
Pollution degree	2
Operating voltage min.	19.2 V DC
Operating voltage max.	28.8 V DC
Short-circuit detection	Depending on the configuration
Cross-short detection	Depending on the configuration
Wire-break detection	Depending on the configuration
Power consumption	3 W
Operating time	Depending on the configuration ms
Response time	10,6 - 12,6 ms
Contact form	Abhängig von der Konfiguration
PL acc. to EN ISO 13849-1	e

### Article characteristics

Attribute	485EPB
SIL acc. to IEC 61508	3
SIL CL acc. to IEC 62061	3
PFHD according to IEC 61508	6,85 x 10 <sup>-9</sup> 1/h
MTTFd	30...100 a
Safe Failure Fraction (SFF) to IEC 61508	99.8 %
DC	99% = DC (high) %
Category acc. to EN ISO 13849-1	4
Type	4 EN 61496-1
Dimensions	108 x 22,5 x 114,5 mm (H/B/T)
Configuration interface	USB Mini-B
Housing material	PA
Protection class, housing	IP20 DIN EN 60529
Operating temperature min.	-10 °C
Max. operating temperature	55 °C
Min. storage temperature	-20 °C
Max. storage temperature	85 °C
Relative humidity	10...95 %
Mounting type	Mounting rail
Weight	150 g
Max. length of the connection cables	100 m
Screw terminals	yes
Pluggable connection terminals	yes
Min. connection cross section	0.5 mm <sup>2</sup>
Max. connection cross section	2.5 mm <sup>2</sup>
Slot for memory card (350EPS) present	yes
Connection present on PC	yes
Connection to slave modules	yes
Max. number of slave modules	14

**Article characteristics**

<b>Attribute</b>	<b>485EPB</b>
<b>Max. number of slave modules of the same type</b>	4
<b>Certified in accordance with</b>	EN ISO 13849-1 IEC 61508 IEC 62061 UL 508 / CSA 22.2
<b>CE label</b>	yes