



## eloProg base module 485EPB

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.

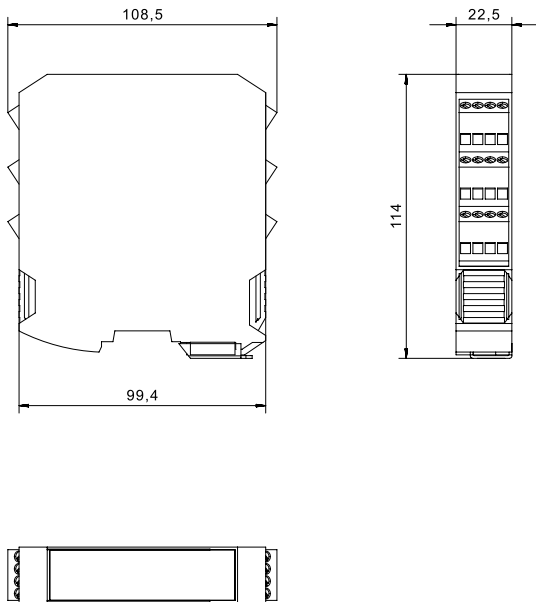
The safety function previously configured on the PC can be directly installed via USB. The base module also features a memory card slot.

### Technical specifications

- 8 safety inputs and 2 safe redundant transistor outputs, can used 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



Attribute	485EPB
Housing colour	Gehäuse schwarz Frontplatte gelb

## Electrical data

Attribute	485EPB
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	2
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

## Electrical data

Attribute	485EPB
Power consumption	3 W
Operating time	Depending on the configuration ms
Response time	10,6 - 12,6 ms

## Safety-related characteristics

Attribute	485EPB
PL acc. to EN ISO 13849-1	e
SIL acc. to IEC 61508	3
SIL CL acc. to IEC 62061	3
PFHD according to IEC 61508	6,06 x 10 <sup>-9</sup> 1/h
DC	99% <= DC (high) %
Category acc. to EN ISO 13849-1	4
Type	4 EN 61496-1
mttfd	30 bis 100 a Tm

## Mechanical data

Attribute	485EPB
Dimensions	108 x 22,5 x 114,5 mm (H/B/T)

## Material information

Attribute	485EPB
Housing material	PA

## Environmental conditions

Attribute	485EPB
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 %

## Installation

Attribute	485EPB
Mounting type	Mounting rail
Weight	150 g
Torque for connection terminals	0.6 N m

## Connection

Attribute	485EPB
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
Max. number of slave modules of the same type	4

## Approvals

Attribute	485EPB
Certified in accordance with	EN ISO 13849-1 IEC 61508 IEC 62061 UL 508 / CSA 22.2
CE label	yes