



## eloProg output expansion 485EPA

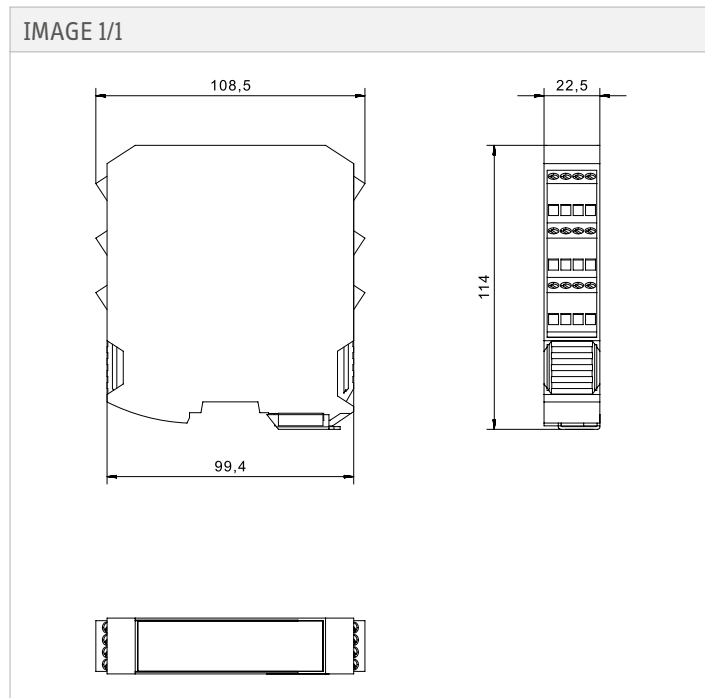
The output expansions extend the number of safe OSSD outputs in steps of two or four.

Up to 4 additional expansion units of the same type (e.g. input module) can be connected to the base module. This allows a maximum number of 16 safety outputs.

### Technical specifications

- Up to 4 safe, redundant transistor outputs
- Diagnostics via up to 4 configurable control outputs and LEDs
- Up to 4 EDM inputs for monitoring of downstream contactors or connection of a start push button
- Pre-assembled T-connector (proprietary 5-way bus) for connection to the base module and other expansion modules simplifies wiring and saves space in the switch cabinet

## Technical drawing



Attribute	485EPA02	485EPA04	485EPA02S08
Connection to base module	proprietary 5-way bus (T-connector)		proprietary 5-way bus (T-connector)

## Electrical data

Attribute	485EPA02	485EPA04	485EPA02S08
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		2 A
Max. switching current at control output	0.1 A		
Number of configurable electronic safety outputs	2	4	
Number of electronic control outputs	2	4	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		
Start function	Depending on the configuration		
EDM/start input	Depending on the configuration		
Feedback circuit	Depending on the configuration		
Operating voltage min.	19.2 V DC		
Operating voltage max.	28.8 V DC		
Power consumption	3 W		4 W
LED display	four-coloured		
Response time	depending on the configuration ms		

## Safety-related characteristics

Attribute	485EPA02	485EPA04	485EPA02S08
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	3,16 x 10 <sup>-9</sup> 1/h	3,44 x 10 <sup>-9</sup> 1/h	8,64 x 10 <sup>-9</sup> 1/h
Operating life	20 Tm		
Category acc. to EN ISO 13849-1	4		

## Mechanical data

Attribute	485EPA02	485EPA04	485EPA02S08
Dimensions	108 x 22,5 x 114,5 mm (H/B/T)		

## Material information

Attribute	485EPA02	485EPA04	485EPA02S08
Housing material	PA		
Housing colour	Gehäuse schwarz Frontplatte gelb		

## Environmental conditions

Attribute	485EPA02	485EPA04	485EPA02S08
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	485EPA02	485EPA04	485EPA02S08
Mounting type	Mounting rail		
Weight	150 g		250 g
Torque for connection terminals	0.6 N m		

## Connection

Attribute	485EPA02	485EPA04	485EPA02S08
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>		

## Approvals

Attribute	485EPA02	485EPA04	485EPA02S08
Certified in accordance with	EN ISO 13849-1 IEC 61508 IEC 62061 UL 508 / CSA 22.2		
CE label	yes		