



## 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

IMAGE 1/1



## Product options

IMAGE 1/1

### ORDERING KEY

485EP	A		Module for output expansion
		02	2 safe transistor outputs
		04	4 safe transistor outputs

## Article characteristics

Attribute	485EPA02	485EPA04	485EPA02S08
Connection to base module	proprietary 5-way bus (T-connector)		
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	in Bericht eP Safety Designer ms		12 ms
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	4,08 x 10 <sup>-9</sup> 1/h	5,83 x 10 <sup>-9</sup> 1/h	8,56 x 10 <sup>-9</sup> 1/h
Safe Failure Fraction (SFF) to IEC 61508	99.8 %		99.7 %
Operating life	20 Tm		
Category acc. to EN ISO 13849-1	4		
Dimensions	108 x 22,5 x 114,5 mm (H/B/T)		
Housing material	PA		
Housing colour	Gehäuse schwarz Frontplatte gelb		

## Article characteristics

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 %		
Mounting type	Mounting rail		
Weight	170 g	185 g	
Torque for connection terminals	0.6 N m		
Screw terminals	yes		
Pluggable connection terminals	yes		
Min. connection cross section	0.5 mm²		
Max. connection cross section	2.5 mm²		
Certified in accordance with	EN ISO 13849-1 IEC 61508 IEC 62061 UL 508 / CSA 22.2		
CE label	yes		