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# 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

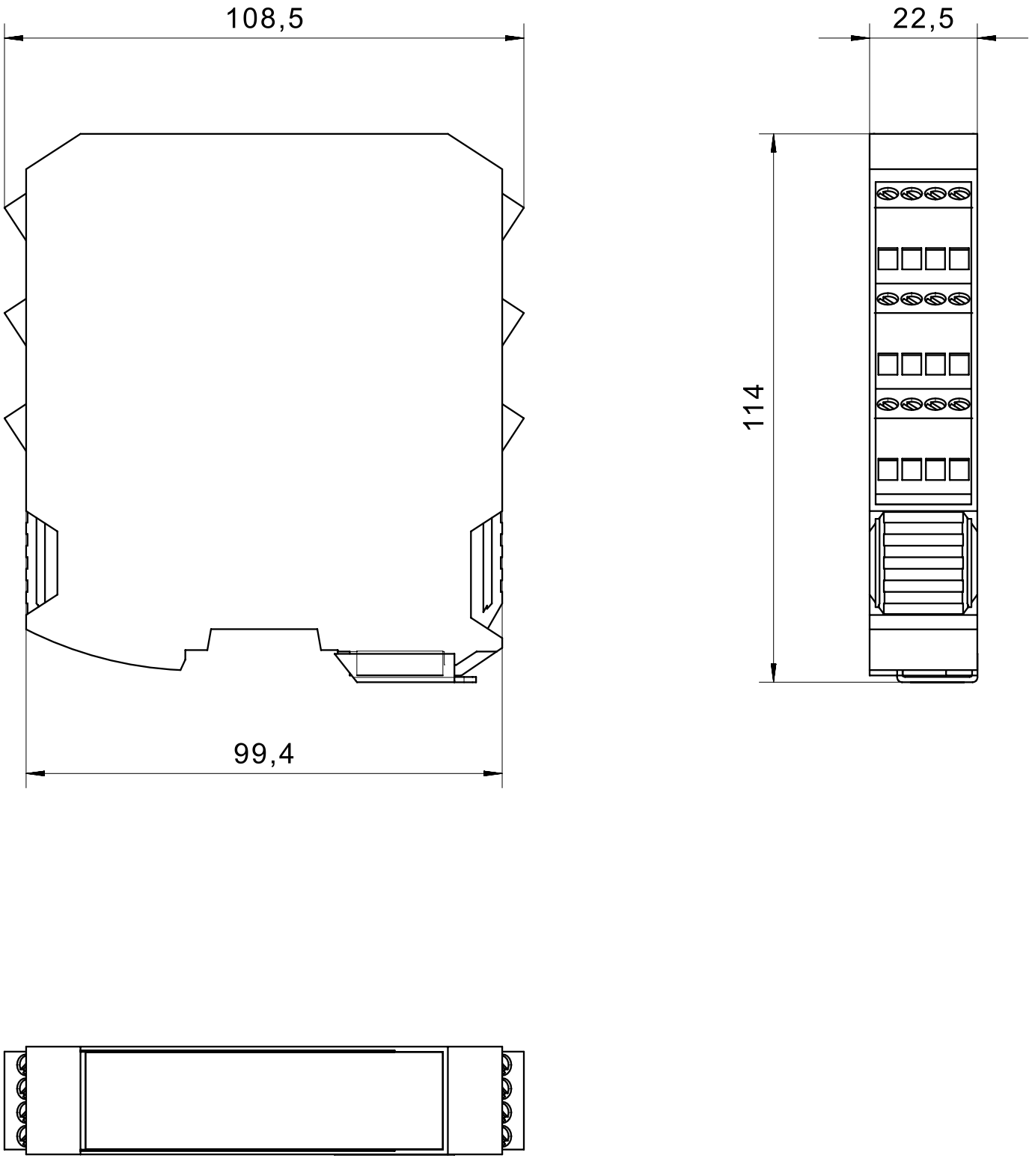
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## Technical drawing

IMAGE 1/1



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## Product options

IMAGE 1/1

### ORDERING KEY

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

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## 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 10-9 1/h | 5,83 x 10-9 1/h | 8,56 x 10-9 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 | | |
| **Protection class, housing** | IP20 DIN EN 60529 | | |

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| Attribute | 485EPA02 | 485EPA04 | 485EPA02S08 |
|---|---|---|---|
| **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 | | |