



## eloProg input expansion 485EPE

Depending on the module variant, the input modules can be expanded by an additional 8, 12 or 16 safety inputs.

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 128 safety inputs to be achieved.

### Technical specifications

- Up to 8 test outputs for sensor monitoring
- Diagnostics via LEDs
- 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 | E |    | Module for input expansion |
|-------|---|----|----------------------------|
|       |   | 08 | 8 safety inputs            |
|       |   | 12 | 12 safety inputs           |
|       |   | 16 | 16 safety inputs           |

## Article characteristics

| Attribute                                | 485EPE08                            | 485EPE12                    | 485EPE16                    |
|--|-------------------------------------|-----------------------------|-----------------------------|
| Connection to base module                | proprietary 5-way bus (T-connector) |                             |                             |
| Torque for connection terminals          | 0.6 N m                             |                             |                             |
| Contact form                             | Abhängig von der Konfiguration      |                             |                             |
| Number of test outputs (clocked)         | 4                                   | 8                           | 4                           |
| Number of safety inputs                  | 8                                   | 12                          | 16                          |
| Start-up test present                    | Depending on the configuration      |                             |                             |
| Operating voltage min.                   | 19.2 V DC                           |                             |                             |
| Operating voltage max.                   | 28.8 V DC                           |                             |                             |
| Power consumption                        | 3 W                                 |                             |                             |
| Wire-break detection                     | Depending on the configuration      |                             |                             |
| Short-circuit detection                  | Depending on the configuration      |                             |                             |
| Cross-short detection                    | Depending on the configuration      |                             |                             |
| LED display                              | four-coloured                       |                             |                             |
| Operating time                           | Depending on the configuration ms   |                             |                             |
| Response time                            | in Bericht eP Safety Designer 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              | 4,46 x 10 <sup>-9</sup> 1/h         | 5,60 x 10 <sup>-9</sup> 1/h | 4,93 x 10 <sup>-9</sup> 1/h |
| Safe Failure Fraction (SFF) to IEC 61508 | 99.7 %                              |                             | 99.8 %                      |
| 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                   |                             |                             |
| Operating temperature min.               | -10 °C                              |                             |                             |
| Max. operating temperature               | 55 °C                               |                             |                             |
| Min. storage temperature                 | -20 °C                              |                             |                             |
| Max. storage temperature                 | 85 °C                               |                             |                             |
| Relative humidity                        | 10...95 %                           |                             |                             |

#### Article characteristics

| Attribute                      | 485EPE08   | 485EPE12 | 485EPE16 |
|--------------------------------|--|----------|----------|
| Mounting type                  | Mounting rail  |          |          |
| Weight                         | 135 g  | 185 g    |          |
| 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  |          |          |