



eloProg relay modules 485EPR

The expansion modules with relay outputs have up to 4 force-guided NO relay contacts. They have been designed to handle 6A and 240V AC. In addition, up to 8 electronic control outputs are available for diagnostics.

Technical specifications

- Up to 4 safe, redundant relay outputs (NO contacts)
- 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
- EDM output for return to base or output module
- Depending on the variant, connection to the base module and other expansion modules with pre-assembled T-connector (proprietary 5-waybus) or wiring via connection terminals

Technical drawing

IMAGE 1/1



Product options

IMAGE 1/1

ORDERING KEY

| 485EP | R | | | Relay module |
|-------|---|----|------|--|
| | | 02 | | 2 safe relay outputs |
| | | 04 | | 4 safe relay outputs |
| | | 04 | S08B | 4 safe relay outputs / 8 status outputs – bus-compatible |

Article characteristics

| Attribute | 485EPR02 | 485EPR04 | 485EPR04S08B |
|---|------------------------------------|----------|--------------------------------|
| Utilization category | AC-15 / DC-13 | | - |
| DC | Depending on the configuration % | | |
| Connection to output module | - | | via connection terminals |
| Min. switching voltage at safety output | 10 V DC | | |
| Max. switching voltage at safety output | 250 V DC | | |
| Min. switching voltage at safety output | 10 V AC | | |
| Max. switching voltage at safety output | 400 V AC | 230 V AC | 400 V AC |
| Min. switching current at safety output | 0.02 A | | |
| Max. switching current at safety output | 6 A | | |
| Max. switching current at control output | - | | 0.1 A |
| Response time | 12 ms | | |
| Number of relay safety outputs | 2 | 4 | |
| Number of relay control outputs | - | | 8 |
| Feedback circuit | yes | | Depending on the configuration |
| Operating voltage min. | 19.2 V DC | | |
| Operating voltage max. | 28.8 V DC | | |
| Power consumption | 3 W | | |
| LED display | single-coloured | | No |
| 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 | depending on the configuration 1/h | | 1,30 x 10 ⁻⁹ 1/h |
| Safe Failure Fraction (SFF) to IEC 61508 | - | | 99.7 % |
| Operating life | 20 Tm | | |
| Max no operating cycles at 1A switching current AC15 230V(B10d) | 750000 | | - |

| Attribute | 485EPR02 | 485EPR04 | 485EPR04S08B |
|---|--|----------|-------------------------------------|
| Max no operating cycles at 2A switching current DC13 24V (B10d) | 10000000 | | - |
| Max no operating cycles at 3A switching current AC15 230V(B10d) | 300000 | | - |
| Service life, mechanical (Cycles) | > 20 x 10 ⁶ | | > 40 x 10 ⁶ |
| Dimensions | 108 x 22,5 x 114,5 mm (H/B/T) | | |
| Housing material | PA | | |
| Housing colour | Gehaeuse schwarz Frontplatte gelb | | |
| Protection class, housing | IP20 DIN EN 60529 | | IP54 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 | 181 g | 231 g | 255 g |
| Torque for connection terminals | 0.6 N m | | |
| Connection to base module | via connection terminals | | proprietary 5-way bus (T-connector) |
| Screw terminals | yes | | |
| Pluggable connection terminals | yes | | |
| Min. connection cross section | 0.5 mm ² | | |
| Max. connection cross section | 2.5 mm ² | | |
| Certified in accordance with | EN ISO 13849-1 IEC 61508 IEC 62061 UL 508 / CSA 22.2 | | - |
| CE label | yes | | |