



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	ED485EPR02	ED485EPR04	ED485EPR04S08B
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	ED485EPR02	ED485EPR04	ED485EPR04S08B
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 106	-		
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 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			-		