

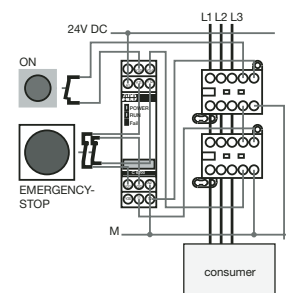
Electronic safety relays with solid state output C67xx

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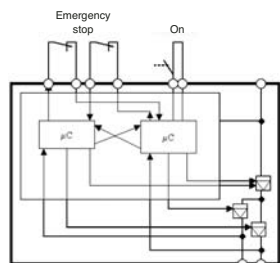


- Solid-state control of actuators, therefore no wear
- No contact failure at currents of 17V, 1mA
- Short circuit proof
- High switching frequencies
- 24VDC sensor supply
- Economical

Internal standard circuit diagram of a safe circuit in accordance to C 6700



Internal standard circuit diagram of safety relay C 6701 with solid-state output.



Electronic safety relays with solid-state output C 67xx

- Solid-state outputs – no contacts – no wear
- Low weight & small size – Space and weight advantage
- Positively guided standard contactors operate as switching elements

C 67xx safety relays are solely used to monitor the sensors connected (e.g. limit switches resp. EMERGENCY-STOP-buttons) and actuators (positively guided standard contactors).

The basic unit C 6700 itself does not feature safe outputs. Only when the unit is used together with positively guided actuators (e.g. contactors B6, B7) the complete circuit fulfills up to category 3 to EN 954-1. Us = 24VDC; Ue = 24VDC; Ie = 0.5ADC 13.

The safety relay C 6701 with solid-state outputs can be used directly to switch off connected devices up to category 3 or 4 to EN 954-1. Us = 24VDC; Ue = 24VDC; Ie = 1.5ADC 13.

The safety relay C 6702 with solid-state outputs can also be used to directly switch off connected devices up to category 3 to EN 954-1 and stop categories 0 and 1 at a width of 22.5 mm only. Time delay settable from 0.05-3 or 0.5-30s. Us = 24VDC; Ue = 24VDC; Ie = 1.5ADC 13.

Type	Supply voltage V _c	Package unit piece	Weight 1 piece kg/lb	Catalog number	List Price
C 6700 C 6701 C 6702 C 6702	24VDC	1	0.150/0.33	1SAR 510 120 R 0003 1SAR 511 320 R 0003 1SAR 543 320 R 0003 1SAR 513 320 R 0003	Consult factory

Technical data

	C 6700	C 6701	C 6702
Permissible ambient temperature T _U Operation / storage	-25...+60 °C / -40...+80 °C		
Degree of protection acc. to EN 60 529	IP40, IP20 at terminals		
Rated insulation voltage V _i	50V		
Rated impulse withstand voltage V _{imp}	500V	2kV	2kV
Rated control supply voltage V _S	24VDC	24VDC	24VDC
Rated power consumption	1.5W	1.3W	1.3W
Operational voltage range	0.9...1.15 x V _S	0.9...1.15 x V _S	0.9...1.15 x V _S
Shock resistance (half-sine) acc. to IEC 60068	8g/10ms	8g/10ms	8g/10ms
Weight	150g/0.33lb	150g/0.33lb	150g/0.33lb
Recovery time after EMERGENCY STOP	min. 20ms	min. 30ms	min. 30ms
Recovery time after power failure	—	7 s	—
Release time after EMERGENCY STOP	< 30ms	min. 30ms	30ms / 0.05...3s or 0.5...30s adjustable
Recovery time after power failure	max. 25ms	—	—
Response time	—	max. 40ms	max. 40ms
Response time monitored start	< 125ms	—	—
Response time Auto-start	< 250ms	—	—
Short circuit protection	no fusing necessary	no fusing necessary	no fusing necessary

Utilization category acc. to IEC 60947-5-1:

	Rated operational voltage V _e	Rated operational current I _e
C 6700	DC-13	0.5A (per output, 60 °C)
C 6701	DC-13	2.0A
C 6702	DC-13	2.0A