Emergency Stop Relay (type 4) SR2C



Extremely compact universal emergency stop relay. Designed to be used in safety-circuits in accordance with EN60204-1

- Operating voltage 24VDC to 230VAC
- Compact housing 22.5mm
- Force-guided contacts
- Self monitoring with redundancy
- One or two channel emergency stop circuit
- Cross short-circuit monitoring
- Safety category 4 and stop category 0
- Conforms to EN60204-1, VDE0113-1, EN954-1



Specification

Operating voltage	24VDC, 115, 230VAC
Voltage tolerance	±10%
Power consumption	Approx 1VA
Control voltage on T11	24VDC
Control current	Approx 40mA
Contacts	2 n/o safety-contacts
Maximum, switching voltage	250VAC
Switching capacity of contacts	AC: 250V, 1500VA, 6A, DC: 24V, 30W, 1.25A
Minimum current (contacts)	24V, 20mA
Fuse external (contacts)	4A
Terminals	Screw, maximum 2.5mm ²
Contact material	AgCdo
Mechanical life	1 x 10 (7) switching operations
Electrical service life	1 x 10 (5) switching operations
Temperature range	-15 +55°C (DC) -15 to +40°C (AC)
Conforms to	VDE0113, part 1/06.93, EN60204-1:1992 EN954-1:1996

Description

The IMO safety relay SR2C is equipped with force-guided and redundant relays (two safety relay contacts) enabling the SR2C to interrupt quickly and safely the dangerous parts of the machine.

Additionally each ON/OFF cycle ensures an automatic functional monitoring, which ensures that if a safety circuit failure occurs NO switching ON is impossible (self-monitoring).

Applications include one and two channel emergency stop and two channel safety guard monitoring. A single-fault occurrence does not lead to the loss of the safety function. It will be recognised at or before the next requirement of the safety function. The SR2C satisfies stop category 0 EN60204-1 and type 4 safety category of EN954-1.

Dimensions (mm)



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continued

Wiring connections

Two channel emergency stop with cross short-circuit monitoring and shorting to ground

To activate the cross-circuit monitoring T11 and T14 must be connected. The emergency stop button will be looped in lines T11-T12 and T10-T13, ON and RESET will be connected between T12 and T21. To activate the detection of shorting to ground T10 needs to be connected with PE. After connecting the power supply to A1 and A2 the safety contacts can be actuated via the ON button.





In accordance with EN954-1, the SR2C can be used as an emergency stop relay with a single-channel push button. For this purpose T10 and T13 as well as T12 and T14 need to be connected. The one channel emergency stop button is looped in line between T11-T12/T14. Ground shorting is available in this application if T10 is connected with PE



This application conforms to the two channel emergency stop standard, however the emergency stop button is replaced by two limit switches, which monitor the guard door. At least one of the limit switches should be positive force opening (see IMO Safety Limit Switches).



