

CES-AR-CR2-CH-SG-112711 (Order no. 112711)

Technical data

Approvals



Workspace

Repeat accuracy R

according to EN 60947-5-2 10 %

Electrical connection values

Fuse

external (operating voltage) 0.25 ... 8 A

Rated insulation voltage U_i 75 V

Rated impulse voltage U_{imp} 1.5 kV

Operating voltage DC

U_B 24 V DC -15% ... +15% regulated, residual ripple <5%

Turn-on time

Safety outputs max. 400 ms

EMC protection requirements according to EN IEC 60947-5-3 and EN IEC 61326-3-1

Risk time according to EN 60947-5-3 max. 260 ms

Risk time according to EN 60947-5-3, max. 5 ms
extension for each additional device

Safety class III

Current consumption max. 50 mA
(without taking into account the load currents on the monitoring output and the safety outputs)

Degree of contamination (external, according to EN 60947-1) 3

Monitoring output OUT

Output type p-switching, short circuit-proof

Output voltage 0.8 x U_B ... U_B V DC

Switching current max. 50 mA

Safety outputs OA / OB

Output type	Semiconductor outputs, p-switching, short circuit-proof	
Output voltage	HIGH U(OA,OB)	UB-1.5V ... UB V DC (Values at a switching current of 50 mA without taking into account the cable lengths.)
	LOW U(OA,OB)	0 ... 1 V DC
rated conditional short-circuit current	100 A	
Discrepancy time	max. 10 ms	
Utilization category	DC-13	24V 200mA (Caution: outputs must be protected with a free-wheeling diode in case of inductive loads.)
Off-state current I _r	max. 0.25 mA	
Switching current	per safety output	1 ... 200 mA
Test pulse duration	max. 1 ms (Applies to a load with C≤ 30nF and R≤ 20kOhm)	
Test pulse interval	min. 140 ms	

Mechanical values and environment

Connection type	M8 plug connector, 8-pin	
Tightening torque	Fixing screws	max. 0.4 Nm
Ready delay	10 s	
Installation orientation	any	
Switching frequency	max. 1 Hz	
Storage temperature	-25 ... 70 °C	
Mounting distance	between switches	min. 120 mm
Mounting type	Surface mounting on metal	
Shock and vibration resistance	Acc. to EN IEC 60947-5-3	
Degree of protection	IP67/IP69K	