

Technical data

Electronic
Safety relays

Type	C570	C571	C572	C573	C574	C575	C576	C577	C578	C579
Single-channel connection	x	x	x	x	x	x	x	x	-	x
2-channel connection	-	x	x	x	x	x	x	x	-	x
Cross-short protection	(x) ^①	(x) ^①	x	(x) ^①	x	x	x	x	-	-
Test certificate	BIA, SUVA	BG, SUVA-UL, CSA								
Safety category to EN 954-1	2, (3) ^① , (4) ^①	3, (4) ^①	4	3, (4) ^①	4, (3) ^②	4	4	4	4	4
Mechanical service life	3 million operations	10 million operations								
Rated insulation voltage U _i	250 V control circuit	300 V								
Pollution severity 3	400 V output contacts									
Overvoltage category III to DIN VDE 0110										
Rated impulse strength U _{imp}	1.5 kV control circuit	4 kV								
Pollution severity 3	4 kV output contacts									
Permissible ambient temperature for operation	-25 to +55 °C	-25 to +60 °C (suitable for butt-mounting design)								
for storage	-25 to +80 °C	-40 to +80 °C								
Enclosure to EN 60 529	IP20	IP20 ^③	IP20	IP20 ^③	IP20	IP20	IP20 ^③	IP20 ^③	IP20	IP20 ^③
Shock-hazard protection to VDE 0106	Safe from finger-touch	Safe from finger-touch								
Rated power DC/AC operation at 1.0 x U _S	6 W	1.5 W	3 W	1.5 W	4 W	3 W	1.5 W	1.5 W	4 W	1.5 W
Operating range AC operation	0.8 to 1.1 x U _S	0.85 to 1.1 x U _S								
DC operation	0.8 to 1.1 x U _S	0.85 to 1.1 x U _S								
Switching frequency	500/h at AC-15 resp. DC-13	1000/h when loaded with I _e								
Resistance to shock	Rectangular shock: 10/5 and 6/10 g/ms Sinusoidal shock: 30/5 and 8/10 g/ms	8 g/10 ms semi-sinusoidal to IEC 60 068								
Short-circuit protection (non-welding fusing at I _k = 1kA)	Fuse-links for Enable/signalling contacts: l.v.h.b.c., neozed and diazed utilization cats. gL/gG quick-acting Fuse supply C570: Cartridge fuse quick-acting/slow-blow, power circuit bkr. A, B, C-characteristic	Fuse-links l.v.h.b.c. Type 3NA, DIAZED Type 5SB, NEOZED Type 5SE6A Utilisation category gL/gG quick-acting								
Wire ranges Flexible with wire end ferrule	2 x (0.5-1.5) mm ² or 1 x (0.5-2.5) mm ²									
Single-core	2 x (0.5-2.5) mm ² or 1 x (0.5-4) mm ²									
Tightening torque, terminal screw M3.5	0.8 to 1.2 Nm									
Electrical service life at I _e		100.000 operations								
Rated operating currents to IEC 60 947-5-1										
Thermal continuous current I _{th} I _e /AC-15	6A	5A 115 V, 5 A 230 V, 5 A								
I _e /DC-13	up to 230 V, 4 A	24 V, 2 A 115 V, 0.2 A 230 V, 0.1 A								
Continuous current		Enable circuits UT 70 °C 4 A 3.5 A 3 A UT 60 °C 4.5 A 4 A 3.5 A UT 50 °C 5 A 4.5 A 4 A								
Mounting positions	any									
Width / mm	75	22.5	45	22.5	45	45	22.5	22.5	45	22.5

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① Possible with additional external measures. The figures in bracket apply only if the cables and sensors are laid safely and protected mechanically.

② Applies only to undelayed FK; category 3 applies to time-delayed FK

③ IP 20 terminals, IP 40 housing