- 4 pole safety relay with either 2 NO+2 NC or 3 NO+1 NC contacts
- Forcibly guided contacts according to EN 50205
- Rated current 8 A
- High insulation distances for safe separation of electrical circuits

Applications

Emergency shut-off, press control, machine control, elevator and escalator control, safety modules

Approvals

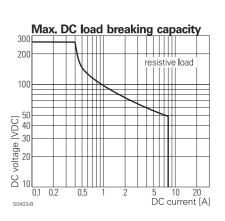
🚾 REGNr. 128935, c 🎙 us E214024, 🕰 📖 968/EL 350.04/09	
Technical data of approved types on request	

Contact data

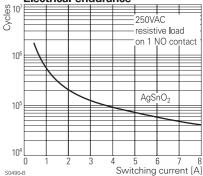
3 NO contacts and 1 NC contact
Or
2 NO contacts and 2 NC contacts
single contact, forcibly guided
type A according to EN 50205
micro disconnection
250 / 400 VAC
8 A
2000 VA
AgSnO ₂
10 mA / 5 V
≤ 100 mOhm / 1 A / 24 VDC
\leq 20 Ohm / 10 mA / 5 VDC
6 min ⁻¹ / 150 min ⁻¹

IEC 947-5-1 (AC15) utilization category 250 VAC / 5 A

IEC 947-5-1 (DC13) utilization category 24 VDC / 6 A







Coil operating range DC

Rated coil voltage range DC coil Operative range to IEC 61810

1 NO

SR6 1 NO *) load on one pole

Contact ratings

EN60947-5-1

Coil data

SR6

Type Contact Load*)

Coil	vers	ions,	DC-coil	
Coi	1	R	ated	

Coil	Rated	Operate	Release / Reset	Coil	Rated coil	
code	voltage	voltage	voltage	resistance	power	
	VDČ	VDC	VDČ	Ohm	mW	
005	5	3.8	0.5	21±10%	1190	
006	6	4.5	0.6	30±10%	1200	
009	9	6.8	0.9	68±10%	1191	
012	12	9.0	1.2	120±10%	1200	
018	18	13.5	1.8	270±10%	1200	
021	21	15.8	2.1	368±10%	1198	
024	24	18.0	2.4	480±10%	1200	
036	36	27.0	3.6	1080±10%	1200	
040	40	30.0	4.0	1333±10%	1200	
048	48	36.0	4.8	1920±10%	1200	
060	60	45.0	6.0	3000±12%	1200	
110	110	82.5	11.0	10080±12%	1200	
All figures are given for coil without preenergization, at ambient temperature +23°C						

All figures are given for coil without preenergization, at ambient temperature +23°C Other coil voltages on request

Datasheet Rev. IJ1 Issued 2009/10 www.tycoelectronics.com www.schrackrelays.com Dimensions are in mm unless otherwise specified and are shown for reference purposes only. Product specification according to IEC 61810-1. Product data, technical parameters, test conditions and

Ambient

temp. [°C]

23°C

23°C

5...110 VDC

2

Cycles

6,050

6,050

processing information only to be used together with the 'Definitions' section in the catalogue or at schrackrelays.com

I voltage (U/U_{rtd}) 9

Coil

1,0 U_{rtd}

0.8

0,6

S0402-F

-20

0

+20

in the 'Schrack' section.

+60

Ambient temperature [°C]

+80

1

Recommended

+40

voltage range

Specifications subject to change.

SCHRACK

F0206-ED

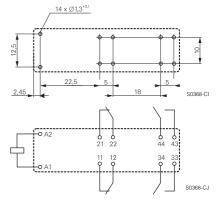


Safety Relay SR6 D/M (Continued)

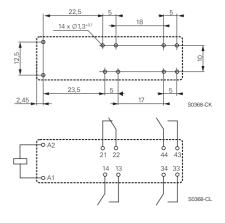
Insulation	
Dielectric strength coil-contact circuit	3000 V _{rms}
open contact circuit	1500 V _{rms}
	3000 / 4000 Vrms (in longitudinal direction)
Clearance / creepage coil-contact circuit	\geq 5.5 / 5.5 mm
adjacent contact circuits	\geq 5.5 / 5.5 mm
	\geq 15 / 15 mm (in longitudinal direction)
Material group of insulation parts	Illa
Tracking index of relay base	PTI 250
Insulation to IEC 61810-1	
Type of insulation coil-contact circuit	basic
open contact circuit	micro disconnection
adjacent contact circ	uits reinforced (in longitudinal dir)
Rated insulation voltage	250 V
Pollution degree	2
Rated voltage system	230 / 400 V
Overvoltage category	111
Insulation to EN 50178	
Type of insulation coil-contact circuit	reinforced
adjacent contact circ	uits reinforced
Other data	
Mechanical endurance	10x10 ⁶ cycles
Material	
RoHS - Directive 2002/95/EC c	compliant as per product date code 0407
Environment	
Ambient temperature range	-25+70°C
Vibration resistance (function) NO / NC c	ontact > 8 / 2.5 g, 10200 Hz
Shock resistance (function) NO / NC co	pntact > 10 / 2.5 g, 16 ms half sine
Category of protection	RT III ¹⁾
Processing	
Resistance to soldering heat	260°C / 5 s
Relay weight	30 g
Packaging unit	10 pcs
1) also a sector at the charter of the sector of the secto	

PCB layout / terminal assignment Bottom view on solder pins

2 NO+2 NC versions



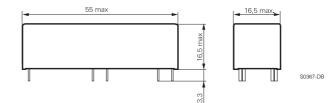
3 NO + 1 NC version



Dimensions

1) please contact technical support for washing parameters

Accessories PCB socket and hold down clip



contact technical support

Product specification according to IEC 61810-1. Product data, technical parameters, test conditions and processing information only to be used together with the 'Definitions' section in the catalogue or at schrackrelays.com in the 'Schrack' section.

2

Specifications subject to change.

Safety Relay SR6 D/M (Continued)

Product key	Typical product key	SR6	D	4	012
Type SR6 Safety Relay SR6 D/M					
Contact configuration D 2 NO + 2 NC contacts (2 form A + 2 form B) M 3 NO + 1 NC contacts (3 form A + 1 form B)					
Contact material 4 AgSnO ₂					
Coil Coil code = rated coil voltage (e.g. 024=24 VDC)					

Other types on request

Product key	Туре	Contact configuration	Contact material	Coil	Part number
SR6D4012	4-pole	2 NO + 2 NC	AgSnO ₂	12 VDC	1415078-1
SR6D4018	safety relay	contacts	-	18 VDC	7-1415354-1
SR6D4021				21 VDC	8-1415353-1
SR6D4024				24 VDC	6-1415027-1
SR6D4040				40 VDC	9-1415366-1
SR6D4110				110 VDC	1415062-1
SR6M4006		3 NO + 1 NC		6 VDC	6-1415053-1
SR6M4012		contacts		12 VDC	7-1415353-1
SR6M4018				18 VDC	1415354-1
SR6M4021				21 VDC	6-1415353-1
SR6M4024				24 VDC	3-1415353-1
SR6M4110				110 VDC	1-1415354-1

Specifications subject to change.

3