



SCHRACK FORCE GUIDED RELAYS SR6 NEXT GENERATION

TE Connectivity (TE) introduces SCHRACK force guided relays SR6 next generation, The SR6nG is a fully compatible successor of TE's force guided relay series SR6A/B/C/V/D/M. With its force guided contacts the state of a contact can be monitored with a diagnostic coverage of 99% (IEC 61508-2) which makes the SR6nG ideal to design safety circuits. The minimum contact load of 5V / 1mA allows direct monitoring through controller input. A more sensitive monostable magnetic coil system reduces heat generation. The relay height of 15.7mm fits best in 22.5mm DIN rail housings.

BENEFIT

- Force guided contacts monitor the state of a contact with a diagnostic coverage of 99% (IEC 61508-2) which makes them ideal to design safety circuits
- Contacts are insensitive to voltage peaks and withstand even short-circuit currents up to 450A
- Relay height of 15.7mm for best fit in 22.5mm DIN rail housing
- Minimum contact load of 5V/1mA allows direct monitoring through controller input
- Sensitive monostable magnetic coil system to reduce heat generation

KEY FEATURES

- Monostable relay with 6 (4) force guided contacts acc. to IEC 61810-3
- Circuits of up to 400V can be connected. Contacts can switch up to 8A or 2200VA
- Creepage and clearance distances allow reinforced isolation (IEC EN 62477) not just between coil and contacts but also between all contacts
- 6 pole version with 3 different contact sets (3NO/3NC; 4NO/2NC; 5NO/1NC)
- Special 4 pole version offers >15mm isolation between contacts
- Sensitive coil of 700mW allows use at 85°C under IEC 61810 conditions

SCHRACK Force Guided Relays SR6 Next Generation

APPLICATIONS

- Safety relay modules
- Safety controllers, PLC's
- Machines, presses, robots
- Emergency shut-off, light barriers
- Elevator and escalator safety control
- Railway level crossings, signaling

ELECTRICAL

- IEC 60947-4-1: AC1-8A/250V 100k cycles @85°C
- EN 60947-5-1: AC15-5A/230V;
DC13-6A/24V (NO)
- UL 61810: 8A GP, B300; R300 @85°C

MECHANICAL

- LxWxH 55 x 16.5 x 15.7mm
- Shock and vibration resistance (IEC 60068-2)
NO/NC: 20g/2g

STANDARDS

- Dielectric strength coil-contacts 4000Vrms;
adjacent contacts (6pole) 3000Vrms

APPROVALS

- VDE Cert. No. 40055844
- TUV 968/FSP 2469.00/22
- UL E214025 Vol.9 Sec.6
- CCC 2022000303000046

PART NUMBER LIST

Product code	Type	Contact arrangement	Contact material	Coil	Coil power	TE pn
SR6-423-L024	6 pole	4NO + 2NC	AgSnO2	24VDC	700 mW	1558737-8
SR6-336-L012		3NO + 3NC	AgSnO2 + Au flash	12VDC		2-1558736-4
SR6-336-L021		3NO + 3NC		21VDC		2-1558736-7
SR6-336-L024		3NO + 3NC		24VDC		2-1558736-8
SR6-426-L012		4NO + 2NC		12VDC		2-1558737-4
SR6-426-L018		4NO + 2NC		18VDC		2-1558737-6
SR6-426-L021		4NO + 2NC		21VDC		2-1558737-7
SR6-426-L024		4NO + 2NC		24VDC		2-1558737-8
SR6-426-L018-0V		4NO + 2NC		18VDC		2-1558739-6
SR6-516-L012		5NO + 1NC		12VDC		2-1558738-4

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