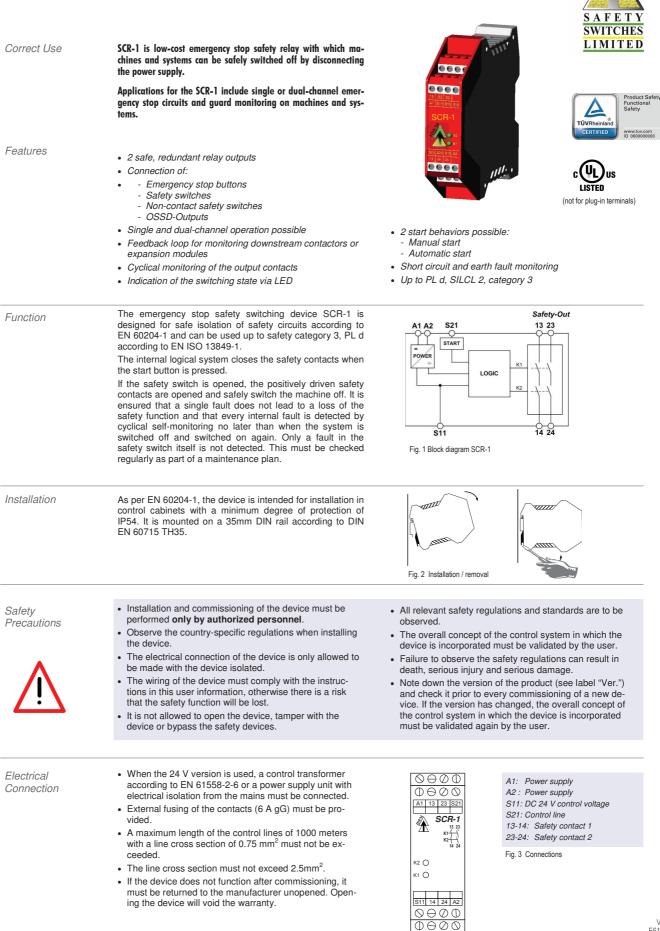
SCR-1

User Information



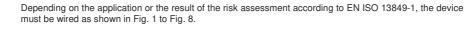
SCR-1

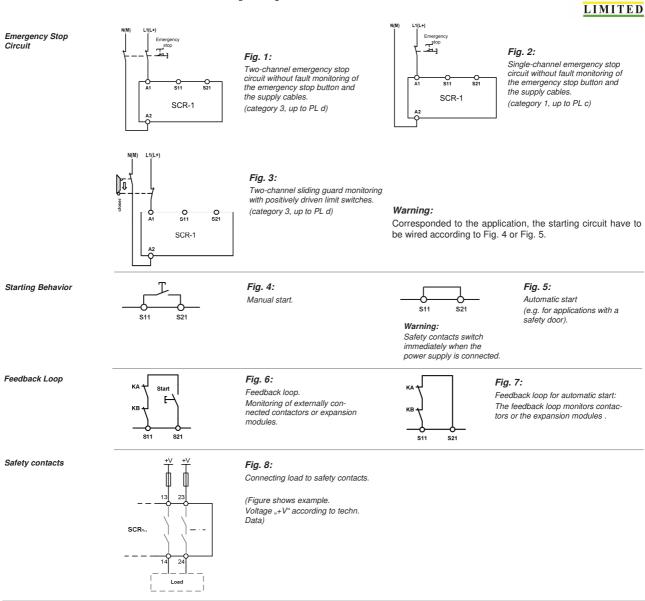
SAFETY

SWITCHES

User Information

Applications





Commissioning Procedure



Note: The items listed under "Electrical connection" must be observed during commissioning.

1. Wiring emergency stop circuit:

Wire the emergency stop circuit according to the required Performance Level determined (see Fig. 1 to Fig. 3).

2. Wiring start circuit:

Wire the start circuit according to Fig. 4 or Fig. 5 to set the starting behavior.

Warning:

If "Automatic start" is set, bear in mind that the safety contacts will switch immediately after the power supply is connected. If "Manual start" is set, the start button must be opened after wiring

3. Wiring feedback loop:

If your application provides for external contactors or expansion modules, connect them to the device according to Fig.6 or Fig. 7.

4. Starting the device:

Switch the operating voltage on.

Warning:

If the "Automatic start" starting behavior is set, the safety contacts will close immediately.

If the "Manual start" starting behavior is set, close the start button to close the safety contacts. LEDs K1 and K2 are lit.

5. Triggering safety function:

Open the emergency stop circuit by actuating the con-nected safety switch. The safety contacts open immediately.

6. Reactivation:

Close the emergency stop circuit. If "Automatic start" is selected, the safety contacts will close immediately. If the "Monitored manual start" starting behavior is set, close the start button to close the safety contacts.

User Information

Maintenance

Safety

Characteristics

According to EN ISO 13849-1 safety function.

The device must be checked once per month for proper function and for signs of tampering and bypassing of the was installed properly.

SCR-1

What to Do in Case of a Fault?	 Device does not switch on: Check the wiring by comparing it to the wiring diagrams. Check the safety switch used for correct function and adjustment. Check whether the emergency stop circuit is closed. Check whether the start button (with manual start) is closed. Check the operating voltage at A1 and A2. Is the feedback loop closed? 	 Device cannot be switched on again after an emergener stop: Check whether the emergency stop circuit was closed again. Is the feedback loop closed? If the fault still exists, perform the steps listed under "Commissioning Procedure". If these steps do not remedy the fault either, return the device to the manufacturer for examination. Opening the device is impermissible and will void the warranty.
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The device is certified according to EN ISO 13849-1 up to a Performance Level of PL d.

Note:

Additional data can be requested from the manufacturer for applications that deviate from these conditions.

Safety characteristics according to EN ISO 13849-1 for all variants of SCR-1				
Load (DC-13; 24 V)	<= 0.1 A	<= 1 A	<= 2 A	
T10d [years]	20	20	20	
Category	3	3	3	
PL	d	d	d	
PFHd [1/h]	1.03E-07	1.03E-07	1.03E-07	
nop [cycle / year]	<= 400,000	<= 73,000	<= 17,000	

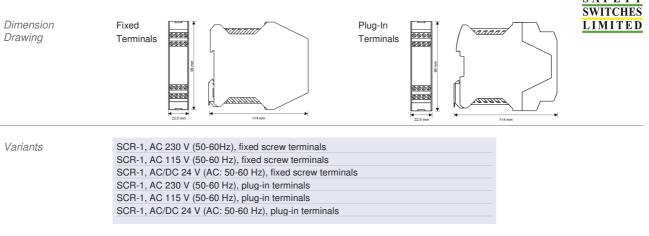
Techn. Data

Corresponds to the standards	EN 60204-1; EN ISO 13849-1; EN 62061		
Operating voltage	AC 230 V, AC 115 V, AC/DC 24 V		
Rated supply frequency	AC: 50-60 Hz		
Permissible deviation	+ / - 10 %		
Power consumption	DC 24 V AC 230 V		
	approx. 1.2 W approx. 3.5 VA		
Control voltage at S11	DC 24 V		
Control current S11S14	max. 40 mA		
Safety contacts	2 NO contacts		
Max. switching voltage	AC 250 V		
Safety contact breaking capacity (13-14, 23-24)	AC: 250 V, 1500 VA, 6 A for ohmic load 250 V, 4 A for AC-15		
	DC: 24 V, 30 W, 1.25 A for ohmic load 24 V, 30 W, 2 A for DC-13		
Minimum contact load	24 V, 20 mA		
Min. Contact fuses	6 A gG		
Max. line cross section	0.14 - 2.5 mm ²		
Max. length of control line	1000 m with 0.75 mm ²		
Contact material	AgNi		
Contact service life	mech. approx. 1 x 10 ⁷		
Test voltage	2.5 kV (control voltage/contacts)		
Rated impulse withstand voltage, leakage path/air gap	4 kV (DIN VDE 0110-1)		
Rated insulation voltage	250 V		
Degree of protection	IP20		
Temperature range	DC 24 V: -15 °C to +60°C		
	AC 230/115 V: -15 °C to +40 °C		
Degree of contamination	2 (DIN VDE 0110-1)		
Overvoltage category	3 (DIN VDE 0110-1)		
Weight	approx. 230 g		
Mounting	DIN rail according to EN 60715 TH35		



SCR-1

User Information



EC Declaration of Conformity F Producer: IDEM SAFETY SWITCHES Ltd. 2 Ormside Close, Hindley Industrial Estate, Hindley Green, Wigan, WN2 4HR, UK Product Group: Safety emergency stop switching devices Product Name Affixing of CE marking: No of Certificate SCR-1 2018 01/205/5055 02/18 .01/205/5055.02/18 .01/205/5055.02/18 2018 2018 SCR-2 SCR-3. The products conform with the essential protection requirements of the following European directives: 2006/42/EG : Machinery directive 2014/30/EU : EMC directive If applicable, the conformity of the designated products is proved by full compliance with the following standards: EN 61000-6-2:2006-03 EN 61000-6-3:2011-09 EN 61326-3-1:2018-04 According to the certificate of the below mentioned organisation: EN 62061:2005 +AC:2010+A1:2013+A2:2015 EN ISO 13849-1-2015 Certification Body: Nr. NB 0035 TÜV Rheinland Industrie Service GmbH 10882 Berlin Zertifizierungsstelle für Maschinen M. Martit 1. elle 02nd January 2019 M. Mohtasham: Managing Director V. Crolla: Documentation Manager

S A F E T Y SWITCHES LIMITED

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