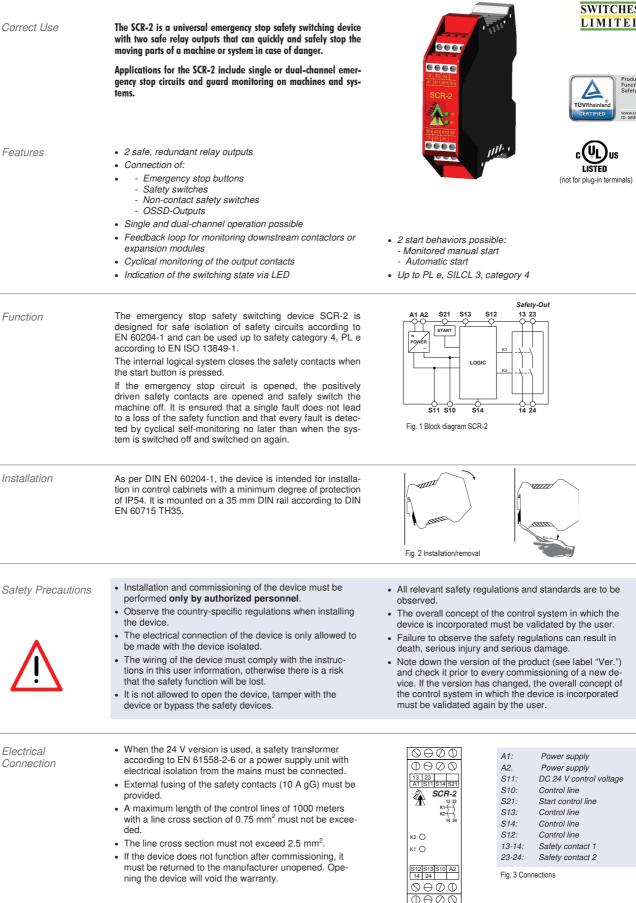
User Information



SCR-2



L01

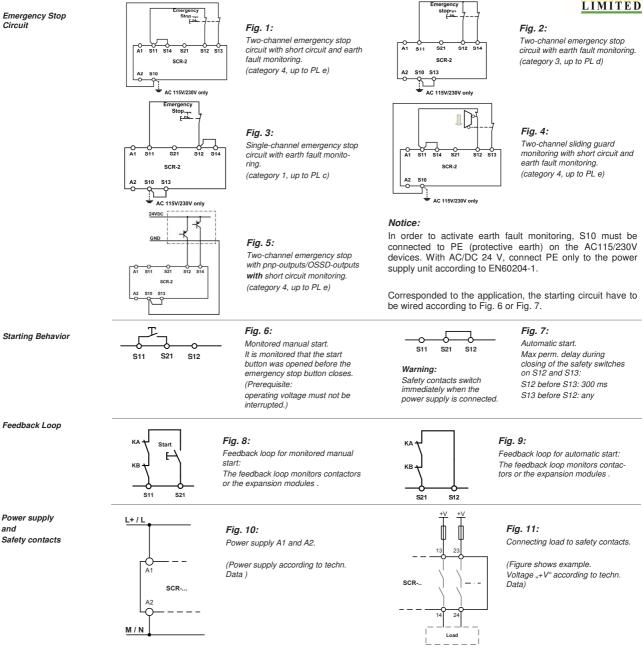
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User Information

Applications

Depending on the application or the result of the risk assessment according to EN ISO 13849-1, the device must be wired as shown in Fig. 1 to Fig. 11.



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. 5).

2. Wiring start circuit:

Wire the start circuit according to Fig. 6 or Fig. 7 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 "Monitored 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. 8 or Fig. 9.

4. Wiring power supply:

Connect the power supply to terminals A1 and A2 (Fig. 10). *Warning:* Wiring only in de-energized state.

5. Starting the device:

Switch on the operating voltage.

Warning:

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

If the "Monitored manual start" starting behavior is set, close the start button to close the safety contacts.

LEDs *K1* and *K2* are lit.

6. Triggering safety function:

Open the emergency stop circuit by actuating the connected safety switch. The safety contacts open immediately. 7. 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.

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User Information

Maintenance

safety function.

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

The device is otherwise maintenance free, provided that it was installed properly.

SCR-2

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 emergency stop: Check whether the emergency stop circuit was closed again. Was the start button opened before closing of the emergency stop circuit (with manual start)? 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. 			
Safety Characteristics According to EN ISO 13849-1	The device is certified according to EN ISO 13849-1 up to a Performance Level of PL e			Note: Additional data can be requested from the manufacturer fo applications that deviate from these conditions.			
	Safety characteristics according to EN ISO 13849-1 for all var			riants of SCR-2			
	Load (DC-13; 24 V)	<= 0.1 A	<= 1 A	<= 3 A			
	T10d [years]	20	20	20			
	Category	4	4	4			
	PL	е	е	е			
	PFHd [1/h]	1.2E-08	1.2E-08	1.2E-08			
	nop [cycle / year]	<= 400,000	<= 100,000	<= 22,500			
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 230V			
	Control voltage at \$11			approx. 1.5 W approx. 3.5 VA DC 24 V			
	Control voltage at S11 Control current S11S14			approx. 40 mA			
	Safety contacts			2 NO contacts			
	Max. switching voltage		AC 2	AC 250 V			
	Safety contact breaking capacity (13-14, 23-24)			250 V, 1500 VA, 6 A for 250 V, 3 A for AC-15 24 V, 144 W, 6A for ohm	ic load (6 switching cycles/ min)		
				24 V, 3 A for DC-13			
	Minimum contact load			24 V, 20 mA			
	Min. Contact fuses			10 A gG 0.14 - 2.5 mm ²			
	Max. line cross section Max. length of control line			1000 m with 0.75 mm ²			
	Contact material			AgSnO ₂			
	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) 250 V			
	Rated insulation voltage						
	Degree of protection	Temperature range			IP20 DC 24 V: -15 °C to +60 °C *) AC 220/(15 V: -15 °C to +60 °C *)		
	Degree of protection Temperature range						
	Temperature range		AC 23	30/115 V: -15 °C to +40 °C			
	Temperature range Degree of contamination			30/115 V: -15 °C to +40 °((DIN VDE 0110-1)			
	Temperature range		AC 23 2 3	30/115 V: -15 °C to +40 °C			

*) 20 % Undervoltage: T_{max}: 50 °C



Те

SCR-2



User Information

Dimension	Fixed
Drawing	Terminals
Versions	SCR-2, AC 230V (50-60Hz), fixed screw terminalsSCR-2, AC 115V (50-60Hz), fixed screw terminalsSCR-2, AC/DC 24V (AC: 50-60Hz), fixed screw terminalsSCR-2, AC 230V (50-60Hz), plug-in terminalsSCR-2, AC 115V (50-60Hz), plug-in terminalsSCR-2, AC 115V (50-60Hz), plug-in terminalsSCR-2, AC/DC 24V (AC: 50-60Hz), plug-in terminals

C € [∈]	C Declaration of Conforn	nity
Producer:	IDEM SAFETY SWITCHES Ltd. 2 Ormside Close, Hindley Industrial E	state, Hindley Green, Wigan, WN2 4HR, UK
Product Group:	Safety emergency stop switching devices	
Product Name	Affixing of CE marking:	No of Certificate
SCR-2	2018	01/205/5055.02/18
	C directive	is proved by full compliance with the following
EN 61000-6-2:200	6-03 EN 61000-6-3:2011-09	EN 61326-3-1:2018-04
According to the ce	rtificate of the below mentioned organisation	on:
EN 62061:2005 +4	AC:2010+A1:2013+A2:2015	EN ISO 13849-1:2015
Certification Body: N TÜV Rheinland Indus 10882 Berlin Zertifizierungsstelle f	strie Service GmbH	
	M. Martit	Valle
02 nd January 2019	M. Mohtasham: Managing Dire	ctor V. Crolla: Documentation Manager

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