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Safety Edges & Bumpers Safety Edge Controllers



for use with All Safety Edges and Safety Bumpers

- Power requirements
 - 120 VAC or 24 VDC is acceptable for the SCC-1224 single channel units
 24 VDC is acceptable for SCC-2124/2224 dual channel units
- Inputs
 - Single channel units accept a single two-wire edge or bumper system
 Dual channel units accept 1 or 2 two-wire edge or bumper systems
- Outputs

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- Single channel units have two safety outputs and one auxiliary output for signaling
- Dual channel units have either 1 or 2 safety outputs, and either 1 or 2 auxiliary outputs with DIP switch selection for input channel relationship
- External Device Monitoring –EDM is provided on all units with a N/C loop between Z1 and Z2
- Monitored Reset Modes
 - Monitored manual reset mode that requires closure of the reset circuit followed by opening of the circuit is available on all units
- Automatic reset mode that occurs upon closure of the reset circuit is available on all units
- Delayed Auxiliary Output Delayed opening of the auxiliary output for reversal of a door or gate may be selected on all units except SCC1224ND



SpeedSPEC www.sti.com SCC





Specifications

	SCC-1224 & SCC-1224ND DIN Mount, 115 VAC or 24 VAC/DC Single Input, Safety Output and Aux.	SCC-2124 DIN Mount, 24 VDC Dual Independent Inputs, Single Safety Output and Aux.	SCC-2224 DIN Mount, 24 VDC Dual Independent Inputs, Safety Outputs and Auxs.	
Performance				
Category 3 Safety Device:	Yes			
Operating Area:	Up to 5 sensing devices with a total cable length of max. 25 m in series	Up to 5 sensing devices with a total cable length of max. 25 m in series		
Response Time:	< 13 msec.	< 2 ms		
Indications:	Power – Main power supply = Green Actuate – Edge is depressed = Yellow Fault – Detect an irregular signal = Red Aux. Actuate – Activate Aux. output = Orange	Power – Main power supply = Green CH1 – Edge is depressed = Yellow CH2 – Edge is depressed = Yellow Aux. Relay 1 – Activate Aux. output = Orange	Power – Main power supply = Green CH1 – Edge is depressed = Yellow CH2 – Edge is depressed = Yellow Aux. Relay 1 – Activate Aux. output = Orange Aux. Relay 2 – Activate Aux. output = Orange	
Operational Modes (Selectable):	Automatic Start Start/Restart Interlock	~ 		
Electrical				
Power Input:	115 VAC, 50/60 Hz, 3 VA or 24 VAC/DC ± 10%, 1.5 W	24 VAC/DC ± 10%, 1 W		
Safety Output:	2 N/O Relay	1 N/O Relay (13 = input + 24 VDC, +10/-50%)	2 N/O Relay (+24 VDC Internally Connected)	
Maximum Switched Current:	4 A, 250 VAC / 4 A, 30 VDC	2 ADC, 10 to 26.4 VDC	2 ADC, 10 to 26.4 VDC	
Auxiliary Relay Output:	SCC-1224: Activates after approx. 1 s for approx. 3 s if the sensing device is actuated or faulty; SCC-1224ND: Activates if the sensing device is actuated or if a sensing device fault is detected	1 N/O When using the NO DELAY function, the auxiliary relay switches synchronously with the safety edge actuation	2 N/O When using the NO DELAY function, the auxiliary relay switches synchronously with the safety edge actuation	
Maximum Switched Current:	4A, 250 VAC / 4A, 30 VDC	2A AC/DC, 50 V AC/DC	2A AC/DC, 50 V AC/DC	
Terminal Blocks:	Cage Clamp Terminal Strip Wire Size 0.75-1.5 mm ²			
Input Connections:	1-2 wire edge sensor circuit			
Input Resistance:	8.2 K ohm			
Input Voltage:	6 V ±2%			
Input Current:	1 mA			
Mechanical				
Enclosure:	Polyamide PA6.6, Self-extinguishing in accordance with UL-94-V2			
Mounting:	35 mm DIN rail			
Environmental				
Protection Rating:	IP20			
Operating Temperature:	-20 to 55°C (-4 to 131°F)			
Shipping Weight:	210 g (7.4 oz.)	160 g (5.6 oz.)		
Standards Conformity:	CE, TUV			
Designed to Meet or Exceed:	Category 3, EN13849-1			

Specifications are subject to change without notice.

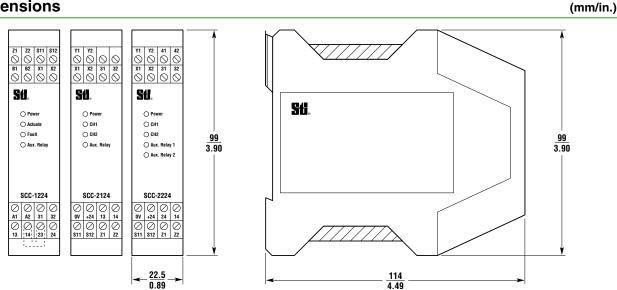






Safety Edge Controllers Safety Edges & Bumpers

Dimensions



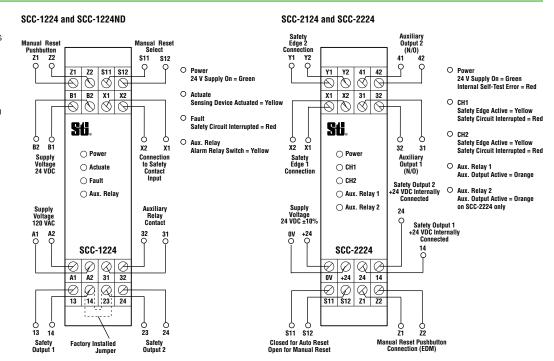
Installation

Mounting

The SCC controllers are DIN rail mounted.

Wiring

As with any electrical apparatus, caution must be used when installing, connecting and operating the SCC controllers and safety edges. Please observe all local electrical codes.



Ordering

Description	Model Number	Part Number
Single-Channel Safety Edge Din-Mount Controller for use with all safety edges, 120 VAC or 24 VDC; Auxiliary contact closes on activation of safety edge for 2 to 3 seconds then opens (even if edge remains activated)	SCC-1224	43872-0020
Single-Channel Safety Edge Din-Mount Controller for use with all safety edges, 120 VAC or 24 VDC; Auxiliary contact closes when the edge is activated and remains closed as long as the edge is activated	SCC-1224ND	43872-0021
Dual-Channel Safety Edge Din-Mount Controller for use with all safety edges, 24 VDC; One safety output and one auxiliary output dip switch selectable for delayed opening	SCC-2124	43872-0040
Dual-Channel Safety Edge Din-Mount Controller for use with all safety edges, 24 VDC; Two safety outputs and two auxiliary outputs dip switch selectable for delayed opening	SCC-2224	43872-0050

For information on Safety Edges, see page E2



For information on Safety Bumpers, see page E12



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