

Safety Edge Controllers



For full product information, visit www.sti.com. Use the SpeedSPEC Code for quick access to the specific web page.

Single-Channel 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
- Input
 - Single channel units accept a single two-wire edge or bumper system
- Output
 - Single channel units have two safety outputs and one auxiliary output for signaling
- 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



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Specifications

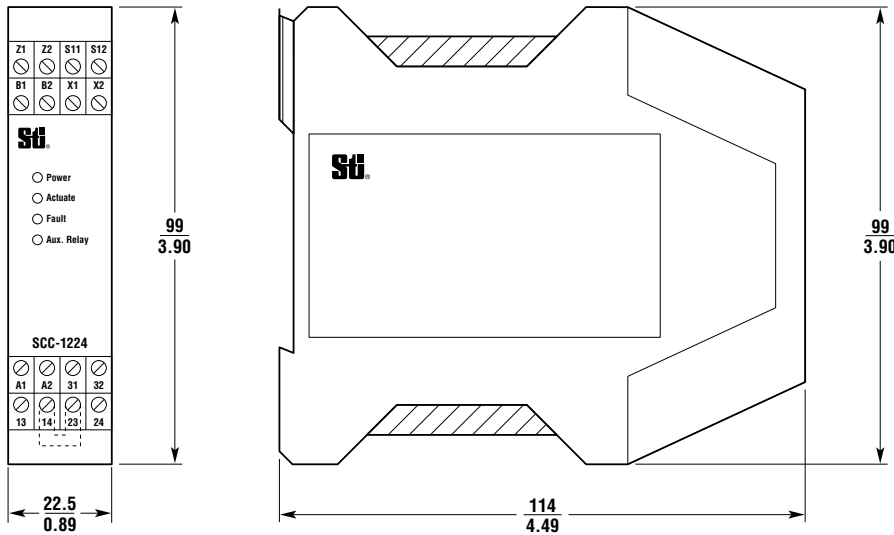
SCC-1224 & SCC-1224ND DIN Mount, 115 VAC or 24 VAC/DC Single Input, Safety Output and Aux.	
Performance	
Category 3 Safety Device:	Yes
Operating Area:	Up to 5 sensing devices with a total cable length of max. 25 m in series
Response Time:	< 13 msec.
Indications:	Power – Main power supply = Green Actuate – Edge is depressed = Yellow Fault – Detect an irregular signal = Red Aux. Actuate – 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
Safety Output:	2 N/O Relay
Maximum Switched Current:	4 A, 250 VAC / 4 A, 30 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
Maximum Switched Current:	4A, 250 VAC / 4A, 30 VDC
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.)
Standards Conformity:	CE, TUV
Designed to Meet or Exceed:	Category 3, EN13849-1

Specifications are subject to change without notice.



Dimensions

(mm/in.)



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Installation

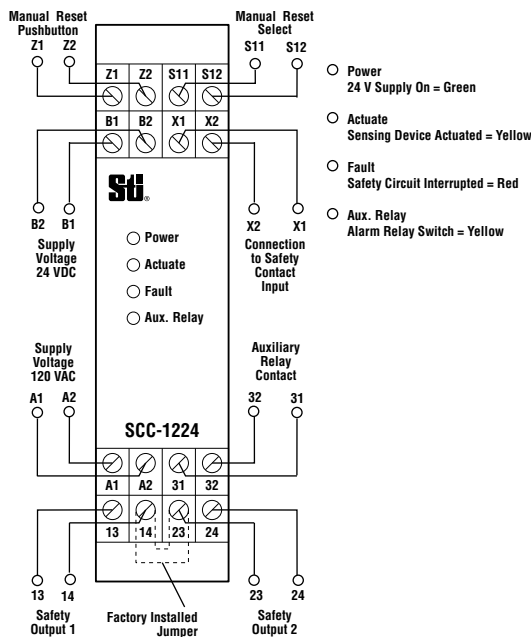
Mounting

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.

SCC-1224 and SCC-1224ND



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

For information on Safety Edges, see page E-2

For information on Safety Bumpers, see page E-9