

**NO
EXCUSES!**

SC4



SSU-SC-414/C



SSU-SC-411/C/R

SC-410 Series Sequencing Relay Module

The SC-410 Series Sequencing Relay modules provide convenient, programmable timed control functionality for a large range of applications. The module may be easily field configured (and re-configured) on demand for control input voltage type and sequence patterns.

The SC-410 incorporates an extremely accurate microprocessor-based digital sequencing circuit for repeatable reliability and long life. In addition, each module includes a dual color LED, which provides visual status of control input voltage, sequence circuitry activation and relay contact state. Automatic sequence reset is accomplished by simply removing and/or momentarily interrupting the control input voltage. Sequencing relays may be used in cascaded and paralleled configurations (and/or matrixes of both) for nearly endless custom application functionality. The SC-410 Series Sequencing Relay is suitable for Fire Alarm, Security, Access Control, CCTV, HVAC, Industrial Process Control, Energy Management, Lighting Control and general purpose applications.

Standard Features:

- Control input voltage choices of 12 or 24 VAC/VDC
- DC type control inputs are polarized for use in supervised circuits
- Sequencing mode choices of :
 - *One Shot*
 - *Temporal* (ANSI Temporal Code 3)
 - *Duty Cycle* (including 1, 5 and 10 minute "on" time choices)
 - *March Time Beat* (including 30, 60 and 120 beats/minute choices)
- Accurate microprocessor digital timing to 1/1,000,000th of a second
- All programming choices are easily field configured or re-configured without special tools
- Dual color LED status indicator yields "No-Tools" diagnostics; green for sequencing circuitry active and red for relay energized
- On board 5A dry form "C" (SPDT) contact for direct load switching and reverse logic functionality
- "C" versions mounted in sturdy enclosures with LED viewing port(s)
- "C/R" versions with red covers for NYC and other uses
- "T" versions come complete with track and mounting hardware - track is pre-configured for an optional DIN/"A" series rail mounting clip (TK-CL)
- Comprehensive selection of Listings and Approvals

ISO9001
REGISTERED



MEA STATE OF
NEW YORK



Building Control

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WIRING (TYPICAL FOR ONE MODULE POSITION)

NOTE: INPUT POWER SHOULD BE UL LISTED FOR FIRE PROTECTION SIGNALING SYSTEMS WHEN USED IN FIRE ALARM APPLICATIONS.

NOTE: DC COIL INPUT IS POLARIZED.

SEQUENCING OPERATION

ONE SHOT: Yields a relay contact transfer for one second after a sixty second delay upon control voltage input, provided the control input voltage is still present after the sixty second delay.

TEMPORAL: Yields a relay contact transfer at an ANSI Temporal (Code 3) rate as long as the control voltage is present.

DUTY CYCLE: Yields a repeated transfer of relay contacts on and off (for equal intervals) at a preset interval, as long as the control voltage is present. Options include one, five and ten minute on/off intervals.

MARCH TIME BEAT: Yields a repeated transfer of relay contacts on and off (for equal intervals) at a preset beats-per-minute (BPM) frequency, as long as the control voltage is present. Options include the following:

March Time Slow: 30BPM (0.5Hz); relay contacts are on for 1 second, off for 1 second

March Time Normal: 60BPM (1Hz); relay contacts are on for 0.5 second, off for 0.5 second

March Time Fast: 120BPM (2Hz); relay contacts are on for 0.25 second, off for 0.25second

POWER REQUIREMENTS:	<u>Voltage</u>	<u>Active</u>	<u>Relay On</u>
	12VDC	10.0mA	60.0mA
	12VAC	13.0-26.0mA	58.0mA(*Depending on program selection)
	24VDC	16.0mA	47.0mA
	24VAC	20.0mA	44.0mA

POLARIZED:	Yes, on DC control inputs
STATUS INDICATOR:	Dual color LED; Green = sequencing circuit; Red = relay energized
CONTACT CONSTRUCTION:	Dry Form "C" (SPDT)
CONTACT RATINGS:	Resistive: 5A @ 30VDC, 120VAC, 240VAC; 1/8HP @ 250VAC Inductive: 1.5A @ 24VDC, 120VAC, 240VAC Power: 150W, 1200VA
ENVIRONMENTAL:	32°F to 120°F (0°C to 49°C) @ 93% RH (@32°C), Non-Condensing / Non-Freezing
WIRING:	Solid or Stranded; #12 to #22 AWG terminals
"/T" VERSIONS:	3.5" wide, low profile plastic snap track with mounting screws; optional TK-CL ready
"/C" VERSIONS: Backbox:	18ga CRS, plated with 1/2" conduit knockouts top and bottom

*UOXX (UL864) = Control Unit Accessories, System; 2=Component; 7=Certified for Canada

*UUKL (UL864) = Smoke Control System Equipment, System; 2=Component

*NMTR (UL508) = Miscellaneous Apparatus, System; 2=Component

*PAZX (UL916) = Energy Management Equipment, System; 2=Component

*UEHX (UL2017) = General Purpose Signaling Devices and Systems, System; 2=Component

Product Specifications

SAE PN#	MODULE POSITIONS	TRACK MOUNTED H x W x D	ENCLOSURE MOUNTED H x W x D	COVER MATERIAL	UL* FILE S3403	
SSU-SC-411/C	1		5.13" (131mm) 3.13" (80mm) 2.50" (64mm)	Grey ABS 94V-0 Plastic	UOXX UUKL PAZX	UOXX7 NMTR UEHX
SSU-SC-411/C/R	1			Red ABS 94V-0 Plastic		
SSU-SC-411/T	1	3.50" (89mm) x 2.13" (54mm) x 1.50" (38mm)			UOXX2 NMTR2 UEHX2	UKL2 AXZ2
SSU-SC-414/C	4		5.13" (131mm) 9.50" (241mm) 2.50" (64mm)	Plated 18ga CRS	UOXX UUKL PAZX	UOXX7 NMTR UEHX
SSU-SC-414/C/R	4			Red 18ga CRS		
SSU-SC-414/T	4	3.50" (89mm) x 8.50" (215mm) x 1.50" (38mm)			UOXX2 NMTR2 UEHX2	UKL2 PAZX2

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