



You in Control

SC-310 SERIES TIMING RELAY MODULE

PRODUCT DESCRIPTION

The SC-310 Series Timing Relay modules provide convenient, programmable timing 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, timer delay modes and timing increments.

The SC-310 incorporates an extremely accurate microprocessor-based digital timing circuit for repeatable reliability and long life. In addition, each module includes a dual color LED, which provides visual status of control input voltage, timer circuitry activation and relay contact state. Automatic timer reset is accomplished by simply removing and/or momentarily interrupting the control input voltage. Timing relays may be used in cascaded and paralleled configurations (and/or matrixes of both) for nearly endless custom application functionality. The SC-310 Series Timing Relay is suitable for Fire Alarm, Security, Access Control, CCTV, HVAC, Industrial Process Control, Energy Management, Lighting Control and General Purpose applications.

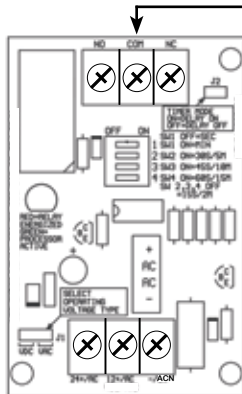


SC-311/C/R

FEATURES

- ❖ Control input voltage choices of 12 or 24 VAC/VDC
- ❖ DC type control inputs are polarized for use in supervised circuits and polarity reversal logic applications
- ❖ Timing mode choices of "Delay On" (delay relay on operation) or "Delay Off" (automatic relay shut down)
- ❖ Timing increment choices of 15, 30, 45 or 60 seconds; or 2, 5, 10 or 15 minutes
- ❖ 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 timer 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

WIRING (TYPICAL FOR ONE MODULE POSITION)



SPDT Contact:
Resistive: 5A @ 30VDC, 120VAC, 240VAC
1/8HP @ 250VAC
Inductive: 1.5A @ 24VAC, 120VAC, 240VAC
Power: 150W, 1200VA



RECOGNIZED COMPONENT

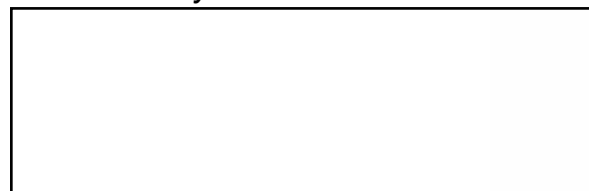


CSFM LISTED

MEA ACCEPTED

Control Input Voltages:
12 (9.6-13.2) VAC/VDC @ 60mA
24 (19.2-26.4) VAC/VDC @ 45mA

Distributed By:



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

NOTE: DC CONTROL INPUTS ARE POLARIZED.

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TIMING RELAY OPERATIONS

DELAY ON: Delays the transfer of a relay's contacts from the normal (non-energized) state until after a present amount of time has elapsed following application of the control input voltage.

DELAY OFF: Automatically returns a relay's contacts to the normal (non-energized) state after a preset amount of time has elapsed following application of the control input voltage, even though the control input voltage remains present. Also known as a "cut off" or "shut down" timer.

PRODUCT SPECIFICATIONS

MODEL NUMBER	MODULE POSITIONS	TRACK MOUNTED H X W X D	ENCLOSURE MOUNTED H X W X D	COVER MATERIAL	UL* FILE S3403/*E232859	MEA Acceptance/ CSFM Listing
SC-311/C	1		5.13" (131mm) 3.13" (80mm) 2.50" (64mm)	Grey ABS 94V-O Plastic	UOXX UOXX7 UUKL NKCR* PAZX UEHX	73-92-E-33/ 7300-1004:113
SC-311/C/R	1			Red ABS 94V-O Plastic		
SC-311/T	1	3.50" (89mm) 2.13" (54mm) 1.50" (38mm)			UOXX2 UOXX8 UUKL2 NKCR2* PAZX2 UEHX2	73-92-E-33/ 7300-1004:113
SC-314/C	4		5.13" (131mm) 9.50" (241mm) 2.50" (64mm)	Plated 18ga CRS	UOXX UOXX7 UUKL NKCR* PAZX UEHX	73-92-E-33/ 7300-1004:113
SC-314/C/R	4			Red 18ga CRS		
SC-314/T	4	3.50" (89mm) 8.50" (215mm) 1.50" (38mm)			UOXX2 UOXX8 UUKL2 NKCR2* PAZX2 UEHX2	73-92-E-33/ 7300-1004:113

POWER REQUIREMENTS:	<u>Voltage</u>	<u>Active</u>	<u>Relay On</u>
	12VDC	10mA	60mA
	12VAC	12mA	58mA
	24VDC	17mA	44mA
	24VAC	18mA	45mA
POLARIZED:	Yes, on DC control inputs		
STATUS INDICATOR:	Dual color LED; Green = timer active; 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; 8=Component Certified for Canada		
	*UUKL (UL864) = Smoke Control System Equipment, System; 2=Component		

NOTICE: The information contained in this document is intended only as a summary and is subject to change without notice. The products described have specific instructional/installation documentation, which covers various technical, approval, code, limitation and liability information. Copies of this documentation along with any general product warning and limitation documents, which also contain important information, are provided with the product and are also available from Air Products and Controls Inc. The information contained in all of these documents should be considered before specifying or using the products. Any example applications shown are subject to the most current enforced local/national codes, standards, approvals, certifications, and/or the authority having jurisdiction. All of these resources, as well as the specific manufacturer of any shown or mentioned related equipment, should be consulted prior to any implementation. For further information or assistance concerning the products, contact Air Products and Controls Inc. Air Products and Controls Inc. reserves the right to change any and all documentation without notice.