



## SCB/SCC series

### Specification Grade Discrete Plug-in Time Delay Relay

- On-Delay, Off-Delay and Interval timing modes
- 13 timing ranges from 0.1 sec. to 60 min.
- 10A DPDT output contacts
- Knob, fixed or external timing adjustment.
- Rated for pilot duty
- Premium components

File E60363

CE

File LR51332

File E60363 (SCC only)

Users should thoroughly review the technical data before selecting a product part number. It is recommended that user also seek out the pertinent approvals files of the agencies/laboratories and review them to ensure the product meets the requirements for a given application.

#### Timing Modes

On-Delay, Off-Delay and Interval.

#### Timing Specifications

**Timing Ranges:** 6 to 180 cycles; 0.1 to 3 / 0.1 to 10 / 0.33 to 10 / 1 to 30 / 4 to 120 sec.; 0.33 to 10 / 1 to 30 / 2 to 60 min.; 0.33 to 10 hr. (All are +5%, -0% of maximum values).

**Timing Adjustment:** Knob or fixed time (internal fixed resistor) – all models; customer supplied external potentiometer or resistor – On-Delay and Interval models only.

**Accuracy:** Repeat Accuracy:  $\pm 0.5\% \pm 0.004$  sec.

Overall Accuracy:  $\pm 2\%$  max.

**Reset Time:** 25 ms.

**Relay Operate Time:** Off-Delay mode: 30 ms; Interval mode: 20 ms..

**Relay Release Time:** On-Delay mode only: 15 ms.

#### Contact Data @ 25°C

**Arrangements:** 2 Form C (DPDT).

**Rating:** 10A @ 28VDC or 120VAC, resistive; 1/3 HP @ 120/240VAC; 345VA. Same polarity.

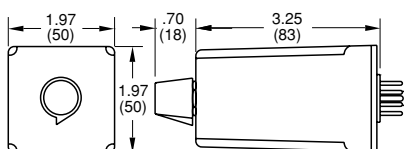
**Expected Mechanical Life:** 10 million operations.

**Expected Electrical Life:** 500,000 operations, min., at rated resistive load.

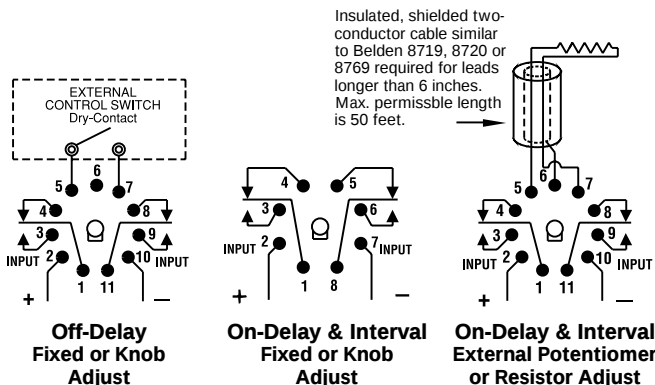
#### Initial Dielectric Strength

**Between Terminals and Case:** 1,000VAC plus twice the nominal voltage for one minute.

#### Outline Dimensions



#### Wiring Diagrams (Bottom Views)



Dimensions are shown for reference purposes only.

Dimensions are in inches over (millimeters) unless otherwise specified.

#### Input Data @ 25°C

**Voltage:** See Ordering Information section for details.

**Power Requirement:** 3W, max.

**Transient Protection:** Non-repetitive transients of the following magnitudes will not cause spurious operation of affect function and accuracy.

| Operating Voltage  | <0.1 ms         | <1 ms |
|--------------------|-----------------|-------|
| All except 12 & 24 | 3,000V          | 2,500 |
| 12 & 24            | Consult Factory |       |

#### Environmental Data

**Temperature Range:**

**Storage:** SCB and SCC: -40°C to +85°C.

**Operating:** SCB: -30°C to +65°C; SCC: -30°C to +50°C.

#### Mechanical Data

**Mounting/Termination:**

SCB: UL recognized. Optional 8- or 11-pin octal-type sockets may be ordered separately.

SCC: 8- or 11-pin octal type sockets supplied with timer. (Must be used to qualify as "UL Listed" device.)

**Weight:** SCB: 5.3 oz. (149g) approx.; SCC: 7.5 oz. (210g) approx.

#### Ordering Information (All "X"s must be included to complete part number)

| SCB                                                                                                                                                                                                                                                                                                                  | RX | 01                                                                 | 2XX                           | A                                                                                                                                                                             | A                                                                                                                                                                                                                                                                                                 | XA                                                                                                                                                                                                                                                                                                      |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|--------------------------------------------------------------------|-------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Series SCB<br>Series SCC<br>Discrete<br>Industrial<br>Timer                                                                                                                                                                                                                                                          |    | Operating Mode<br>01 = On-Delay<br>02 = Off-Delay<br>03 = Interval | Output<br>2XX = DPDT<br>Relay |                                                                                                                                                                               | Timing Range<br>A = 0.1 to 3 sec.<br>B = 0.5 to 15 sec.<br>C = 1 to 30 sec.<br>D = 2 to 60 sec.<br>E = 4 to 120 sec.<br>F = 6 to 180 sec.<br>G = 10 to 300 sec.<br>I = 2 to 60 min.<br>K = 3 to 180 cycles<br>L = 0.33 to 10 min.<br>M = 0.5 to 15 min.<br>N = 1 to 30 min.<br>P = 0.1 to 10 min. | Timing Adjustment<br>XA = Knob Adjust<br>XB = External<br>Potentiometer or<br>resistor (Operating<br>modes 1 and 3 only).<br>XF = Fixed Times –<br>Specify time delay<br>in seconds per the<br>following examples:<br>XF9.000 = 9 sec.<br>XF99.00 = 99 sec.<br>XF999.0 = 999 sec.<br>XF1000 = 1000 sec. |
| <b>Mounting Series SCB</b><br>RX = 8- or 11-pin socket (order separately)<br><b>Mounting Series SCC</b><br>LA = 8-pin socket p/n BCSA08SC for operating mode 01 or 03 with knob adjust or fixed time.<br>LC = 11-pin socket p/n BCSA11SC for operating mode 02; or 01 or 03 with external potentiometer or resistor. |    |                                                                    |                               |                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                         |
|                                                                                                                                                                                                                                                                                                                      |    |                                                                    |                               | <b>Operating Voltage (+10%, -15%)</b><br>A = 120VAC, 50/60 Hz. / 120VDC<br>B = 240VAC, 50/60 Hz.<br>E = 24VAC, 50/60 Hz. / 24VDC<br>F = 48VAC, 50/60 Hz. / 48VDC<br>Q = 12VDC |                                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                         |

#### Authorized distributors are likely to stock the following:

None at present.

Specifications and availability subject to change.

www.tycoelectronics.com  
Technical support:  
Refer to inside back cover.