

SRC Series, Specification Grade Repeat Cycle, Plug-in Time Delay Relay

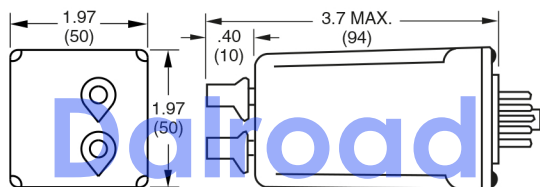


Product Facts

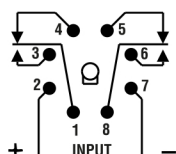
- Repeat Cycle timing mode
- Dual knobs for user adjustment of on and off times
- 13 timing ranges from 0.1 sec. to 60 min.
- 10A DPDT output contacts
- Exceptional immunity to line transients and noise
- Premium components enhance reliability
- Superior reset time of 24 msec.



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.



Outline Dimensions



Wiring Diagram (Bottom View)

Timing Specifications

Timing Modes —

Repeat Cycle: Application of line voltage starts the pre-set OFF-time period. Upon expiration of the period, the output relay is energized, its contacts transfer, and the pre-set ON-time period begins. At the end of this period the output relay is deenergized, and a new cycle begins. The OFF and ON cycles continue until power is removed. To reset the timer, input voltage must be removed for at least 25 ms.

Timing Ranges — OFF time and ON time ranges need not be the same. 6 to 180 cycles; 0.1 to 3 / 1 to 10 / 0.5 to 15 / 1 to 30 / 2 to 60 / 4 to 120 / 6 to 180 / 10 to 300 sec.; 0.33 to 10 / 0.5 to 15 / 1 to 30 / 2 to 60 min. (All are +10%, -1% of maximum values).

Timing Adjustment — Two internal potentiometers with external knobs.

Accuracy —

Repeat Accuracy — $\pm 1\% \pm 0.004$ sec.
Overall Accuracy — $\pm 2.25\%$ max.

Reset Time — 25 ms. max. (between deenergization and reenergization without affecting accuracy.)

Relay Operate Time — 20 ms.

Relay Release Time — 15 ms.

Contact Data @ 25°C

Arrangements — 2 Form C (DPDT).

Rating — 10A @ 28VDC or 120VAC, resistive; 1/3 HP @ 120/240VAC.

Expected Mechanical Life —

10 million operations

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

Initial Dielectric Strength —

Between Terminals & Case and Mutually Isolated Contacts — 1,480VAC.

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
12VDC	1,000V	240V*
12VDC	1,000V	240V*
24VAC/VDC	1,000V	240V*
48 VAC/VDC	1,000V	480V*
120 VAC/VDC	3,000V	2,500V*
240VAC	3,000V	2,500V*

*Minimum source impedance of 100 ohm

Environmental Data

Temperature Range —

Storage — -40°C to +85°C
Operating — -30°C to +65°C

Mechanical Data

Mounting/Termination —

Quick connect terminals fit either 27E121 or 27E893 (snap-on) socket (order separately)

Weight — 5.3 oz. (149g) approximately

Dalroad

Ordering Information

SRC	7	2	A	C	C	A
Series SRC	Output	Timing Range	Timing Range	Timing Range	Timing Range	Timing Range
Repeat Cycle Timer.	2 = DPDT Relay	Off-Time	Off-Time	Off-Time	Off-Time	Off-Time
Operating Mode	7 = Repeat Cycle	A = 0.1 to 3 sec.	A = 0.1 to 3 sec.	A = 0.1 to 3 sec.	A = 0.1 to 3 sec.	A = 0.1 to 3 sec.
		B = 0.5 to 15 sec.	B = 0.5 to 15 sec.	B = 0.5 to 15 sec.	B = 0.5 to 15 sec.	B = 0.5 to 15 sec.
		C = 1 to 30 sec.	C = 1 to 30 sec.	C = 1 to 30 sec.	C = 1 to 30 sec.	C = 1 to 30 sec.
		D = 2 to 60 sec.	D = 2 to 60 sec.	D = 2 to 60 sec.	D = 2 to 60 sec.	D = 2 to 60 sec.
		E = 4 to 120 sec.	E = 4 to 120 sec.	E = 4 to 120 sec.	E = 4 to 120 sec.	E = 4 to 120 sec.
		F = 6 to 180 sec.	F = 6 to 180 sec.	F = 6 to 180 sec.	F = 6 to 180 sec.	F = 6 to 180 sec.
		G = 10 to 300 sec.	G = 10 to 300 sec.	G = 10 to 300 sec.	G = 10 to 300 sec.	G = 10 to 300 sec.
		I = 2 to 60 min.	I = 2 to 60 min.	I = 2 to 60 min.	I = 2 to 60 min.	I = 2 to 60 min.
		K = 3 to 180 cycles	K = 3 to 180 cycles	K = 3 to 180 cycles	K = 3 to 180 cycles	K = 3 to 180 cycles
		L = 0.33 to 10 min.	L = 0.33 to 10 min.	L = 0.33 to 10 min.	L = 0.33 to 10 min.	L = 0.33 to 10 min.
		M = 0.5 to 15 min.	M = 0.5 to 15 min.	M = 0.5 to 15 min.	M = 0.5 to 15 min.	M = 0.5 to 15 min.
		N = 1 to 30 min.	N = 1 to 30 min.	N = 1 to 30 min.	N = 1 to 30 min.	N = 1 to 30 min.
		P = 0.1 to 10 sec.	P = 0.1 to 10 sec.	P = 0.1 to 10 sec.	P = 0.1 to 10 sec.	P = 0.1 to 10 sec.
		Operating Voltage	Operating Voltage	Operating Voltage	Operating Voltage	Operating Voltage
		(+10%, -15%)	(+10%, -15%)	(+10%, -15%)	(+10%, -15%)	(+10%, -15%)
		A = 120VAC, 50/60 Hz. / 120VDC	A = 120VAC, 50/60 Hz. / 120VDC	A = 120VAC, 50/60 Hz. / 120VDC	A = 120VAC, 50/60 Hz. / 120VDC	A = 120VAC, 50/60 Hz. / 120VDC
		B = 240VAC, 50/60 Hz. / 24VDC	B = 240VAC, 50/60 Hz. / 24VDC	B = 240VAC, 50/60 Hz. / 24VDC	B = 240VAC, 50/60 Hz. / 24VDC	B = 240VAC, 50/60 Hz. / 24VDC
		E = 24VAC, 50/60 Hz. / 24VDC	E = 24VAC, 50/60 Hz. / 24VDC	E = 24VAC, 50/60 Hz. / 24VDC	E = 24VAC, 50/60 Hz. / 24VDC	E = 24VAC, 50/60 Hz. / 24VDC
		F = 48VAC, 50/60 Hz. / 48VDC	F = 48VAC, 50/60 Hz. / 48VDC	F = 48VAC, 50/60 Hz. / 48VDC	F = 48VAC, 50/60 Hz. / 48VDC	F = 48VAC, 50/60 Hz. / 48VDC
		Q = 12VDC	Q = 12VDC	Q = 12VDC	Q = 12VDC	Q = 12VDC

Authorized distributors are likely to stock the following:

None at present.