

The SC3/SC4 Series are solid-state 3 or 4 channel, chasers designed for sequential three or four circuit flashing of incandescent lamp loads. Unlike electromechanical chasers, there are no contacts to arc, wear, and eventually fail. Fixed or adjustable rates of 30 to 300 operations per minute.

Operation

Sequential 3 or 4 circuit flashing of incandescent loads with equal time delays for each load. Upon application of input voltage, Load 1 is energized. At the end of the time delay, Load 1 de-energizes and Load 2 energizes. At the end of the time delay, Load 2 de-energizes and Load 3 energizes. This cycle continues until input voltage is removed.

Reset: Removing input voltage resets the unit and cycle.

For more information see:

Appendix A, page 164 for Flasher (Chasing) function. Appendix B, page 166, Figure 14 for dimensional drawing. Appendix C, page 168, Figure 9 for connection diagram.

Features:

- Sequential 3 or 4 circuit flashing of incandescent loads
- Fixed or adjustable at 30 300FPM
- 1A steady state output
- 24, 120, or 230VAC input voltage
- Totally solid state encapsulated Approvals: (calus

Auxiliary Products:

• Quick connect to screw adaptor: P/N: P1015-18

Female quick connect:
 P/N: P1015-13 (AWG 10/12)
 P/N: P1015-64 (AWG 14/16)
 P/N: P1015-14 (AWG 18/22)

Available Models:

SC3120F30

If desired part number is not listed, please call us to see if it is technically possible to build.

Order Table:

SC3 (3 outputs) SC4 (4 outputs) X Input Voltage -24 - 24VAC -120 - 120VAC -230 - 230VAC

Rate-A - Adjustable (30 - 300)
-F - Fixed*

*If Fixed is selected, insert (30 - 300) operations per minute.

Specifications

Technica	al Data	
Operation	on	Sequential 3 or 4 circuit flashing of incandescent
Rate		lamp loads. Fixed or adjustable rates. Adjustable: 30 - 300 operations per minute Fixed: 30 - 300 operations per minute (±10%)
Input		
Voltage.		24, 120, or 230VAC ±15%
AC Line	Frequency	50/60 Hz
Output	-	
Type		Solid state
Rating .		1A steady state per output
Mechani		, 1 1
Mountin	ng	Surface mount with two #6 (M3.5 x 0.6) screws
		0.25 in. (6.35 mm) male quick connect terminals
		3.5 x 2.5 x 1.22 in. (88.9 x 63.5 x 31 mm)

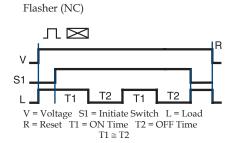
Protection	
Circuitry	Encapsulated
Dielectric Breakdown	≥ 2000V RMS terminals to mounting surface
nsulation Resistance	≥ 100 MΩ
Environmental	
Operating / Storage Temperature	-20° to 60°C / -40° to 85°C
Humidity	95% relative, non-condensing
Weight	≅ 5.4 oz (153 g)

Appendix A - Timer/Flasher Functions

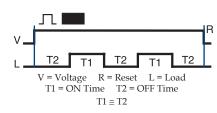
Single Functions **Dual Functions** * Recycle (OFF Time First) Retriggerable л∎ Single Shot Both Times Adjustable ABCDE * Interval Accumulative Delay-on-Make Delay-on-Make **KEY** V=Voltage, R=Reset, S1=Initiate Switch, x0.1_ x1 Accumulative Delay-on-Make NO=Normally Open Contact, NC=Normally Closed Contact, $\overline{\Lambda}$ Interval TD,TD1,TD2=Complete Time Delay, t=Partial Time Delay, DOM=Delay-on-Make, DOB=Delay-on-Break, REC=Recycle, SS=Single Shot, INT=Interval, M=Minutes, S=Seconds, _____Undefined time ABCDE NC 5 Switches for Function Selection ABCDES 3 Switches for Time Delay Range NOTE: The time delay range is the same for both functions when dual functions are selected. * 9 Functions included in the 8 pin DPDT models

9 Functions included in the 8 pin DPD1 models

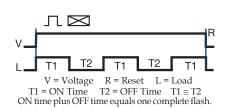
Flasher Function Diagrams



Flasher (OFF First)

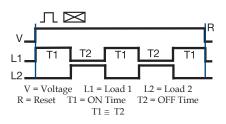


Flasher (ON First)

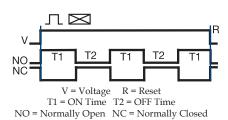


Flasher (Alternating)

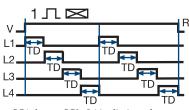
Flashers & Aux. Modules



Flasher (ON First-DPDT)

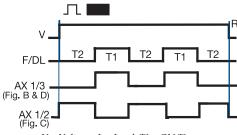


Flasher (Chasing)



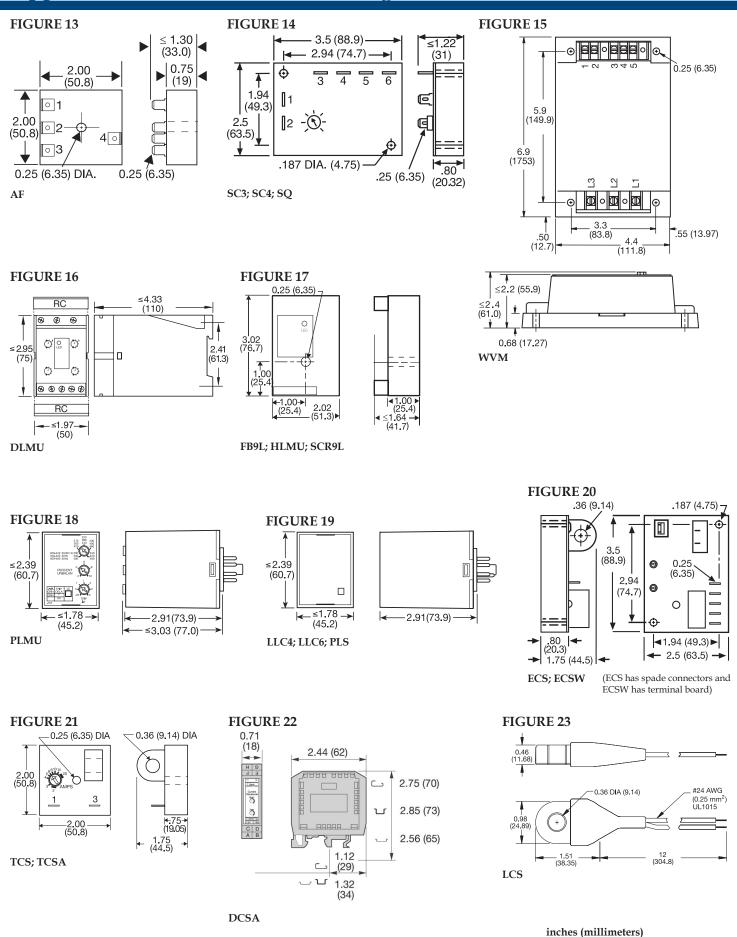
SC4 shown; SC3, L4 is eliminated and L1 TD begins as soon as L3 TD is completed.

V = Voltage R = Reset L (1...4) = LampsTD = Time Delay (all are equal)



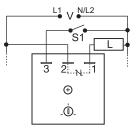
 $V = Voltage \quad L = Load \quad T1 = ON \ Time$ $T2 = OFF \ Time \quad R = Reset$ $T1 \cong T2$

Appendix B - Dimensional Drawings



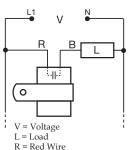
Appendix C - Connection Diagrams

FIGURE 1 - FSU1000 Series



S1 = Optional low current switch V = Voltage L = Load

FIGURE 2 - FS100 Series



B = Black Wire

FIGURE 3 - FS100 Series

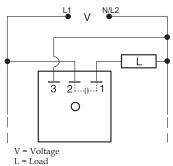


FIGURE 4 - FS200 Series

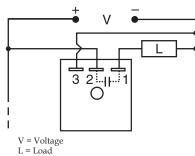


FIGURE 5 - FS300 Series

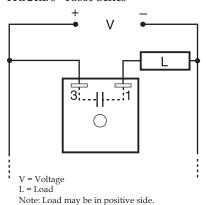
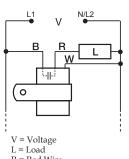


FIGURE 6 - FS400 Series



R = Red Wire B = Black Wire W= White Wire

L2 2 3 0 L1

FIGURE 7 - AF Series

V = Voltage

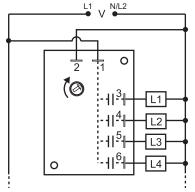
L = Load

V = Voltage

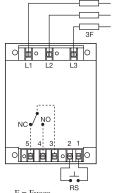
FIGURE 8 - FS500 Series

FIGURE 11 - DLMU Series

FIGURE 9 - SC3/SC4 Series



for SC3, terminal 6 & load L4 are eliminated.



F = Fuses

RS = Optional Remote Reset Switch Relay contacts are isolated.

CAÚTION:

2 amp max fast acting fuses must be installed externally in series with each input. (3)

FIGURE 10 - WVM Series

NO = Normally Open NC = Normally Closed

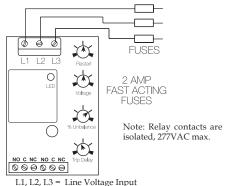
! = Select alarm contact connection as N.O. or N.C. when ordering; N.O. Shown.

L1, L2, L3 = Line Voltage Input NO = Normally Open Contact NC = Normally Closed Contact C = Common, Transfer Contact

CAUTION: 2 amp max. fast acting fuses are recommended to protect the equipment's wiring. They are not required to protect the DLMU.

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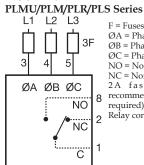
FIGURE 12 - HLMU Series



NO = Normally Open Contact NC = Normally Closed Contact C = Common, Transfer Contact

CAUTION: 2 amp max. fast acting fuses are recommended to protect the equipment's wiring. They are not required to protect the HLMU.

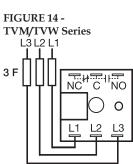
FIGURE 13 -



F = Fuses \emptyset A = Phase A = L1 \emptyset B = Phase B = L2 \emptyset C = Phase C = L3 NO = Normally Open

NC = Normally Closed 2A fast acting fuses recommended for safety (not

required) Relay contacts are isolated.



L1 = Phase A L2 = Phase B

L3 = Phase C

NO = Normally Open NC = Normally Closed

C = Common, Transfer Contact

Relay contacts are isolated. F = 2A Fast acting fuses are recommended,

but not required