



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: 

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:

<u>SC3 (3 outputs)</u>	<u>X</u>	<u>X</u>
<u>SC4 (4 outputs)</u>	<u>Input Voltage</u>	<u>Rate</u>
	-24 - 24VAC	-A - Adjustable (30 - 300)
	-120 - 120VAC	-F - Fixed*
	-230 - 230VAC	

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

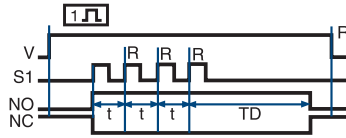
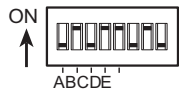
Specifications

Technical Data		Protection	Encapsulated
Operation	Sequential 3 or 4 circuit flashing of incandescent lamp loads. Fixed or adjustable rates.	Circuitry	≥ 2000V RMS terminals to mounting surface
Rate	Adjustable: 30 - 300 operations per minute Fixed: 30 - 300 operations per minute (±10%)	Dielectric Breakdown	≥ 100 MΩ
Input		Insulation Resistance	≥ 100 MΩ
Voltage	24, 120, or 230VAC ±15%	Environmental	
AC Line Frequency	50/60 Hz	Operating / Storage Temperature	-20° to 60°C / -40° to 85°C
Output		Humidity	95% relative, non-condensing
Type	Solid state	Weight	≈ 5.4 oz (153 g)
Rating	1A steady state per output		
Mechanical			
Mounting	Surface mount with two #6 (M3.5 x 0.6) screws		
Termination	0.25 in. (6.35 mm) male quick connect terminals		
Dimensions	3.5 x 2.5 x 1.22 in. (88.9 x 63.5 x 31 mm)		

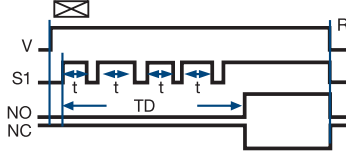
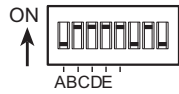
Appendix A - Timer/Flasher Functions

Single Functions

Retriggerable Single Shot

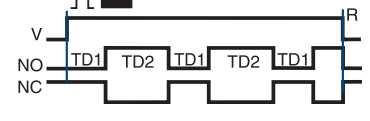
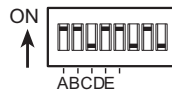


Accumulative Delay-on-Make

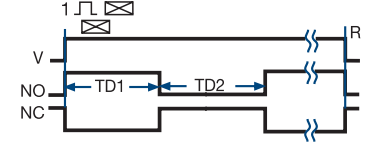
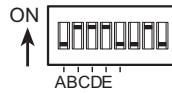


Dual Functions

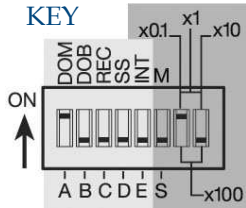
* Recycle (OFF Time First) Both Times Adjustable



* Interval Delay-on-Make



KEY

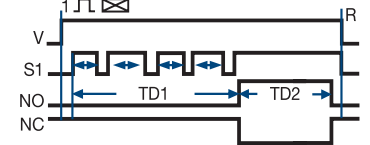
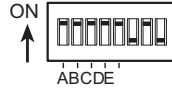


V=Voltage, R=Reset, S1=Initiate Switch,
NO=Normally Open Contact, NC=Normally Closed Contact,
TD,TD1,TD2=Complete Time Delay, t=Partial Time Delay,
DOM=Delay-on-Make, DOB=Delay-on-Break, REC=Recycle,
SS=Single Shot, INT=Interval, M=Minutes, S=Seconds,
= } Undefined time

5 Switches for Function Selection
3 Switches for Time Delay Range

NOTE: The time delay range is the same for both functions when dual functions are selected.

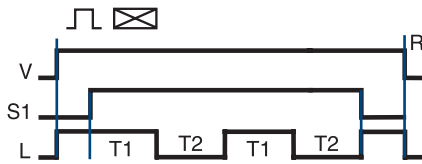
Accumulative Delay-on-Make Interval



* 9 Functions included in the 8 pin DPDT models

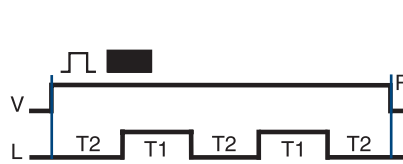
Flasher Function Diagrams

Flasher (NC)



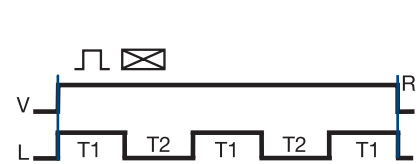
V = Voltage S1 = Initiate Switch L = Load
R = Reset T1 = ON Time T2 = OFF Time
T1 ≅ T2

Flasher (OFF First)



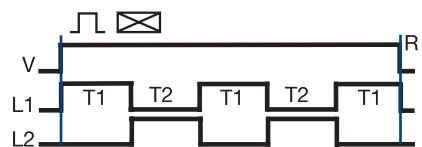
V = Voltage R = Reset L = Load
T1 = ON Time T2 = OFF Time
T1 ≅ T2

Flasher (ON First)



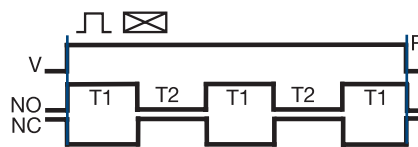
V = Voltage R = Reset L = Load
T1 = ON Time T2 = OFF Time T1 ≅ T2
ON time plus OFF time equals one complete flash.

Flasher (Alternating)



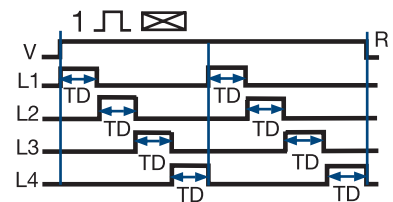
V = Voltage L1 = Load 1 L2 = Load 2
R = Reset T1 = ON Time T2 = OFF Time
T1 ≅ T2

Flasher (ON First-DPDT)



V = Voltage R = Reset
T1 = ON Time T2 = OFF Time
NO = Normally Open NC = Normally Closed

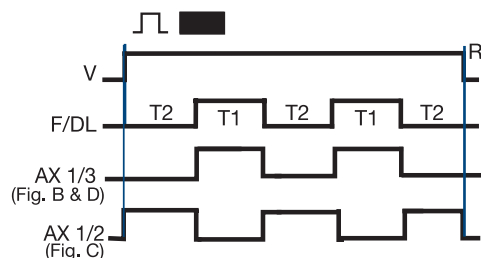
Flasher (Chasing)



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

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

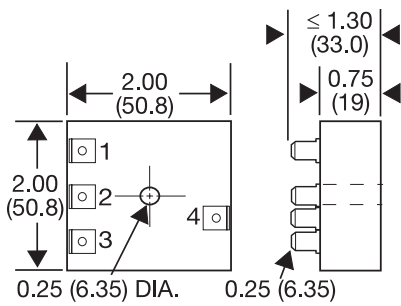
Flashers & Aux. Modules



V = Voltage L = Load T1 = ON Time
T2 = OFF Time R = Reset
T1 ≅ T2

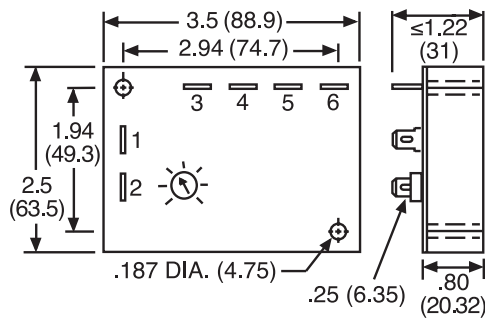
Appendix B - Dimensional Drawings

FIGURE 13



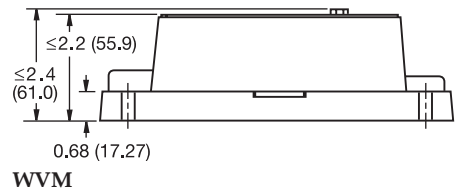
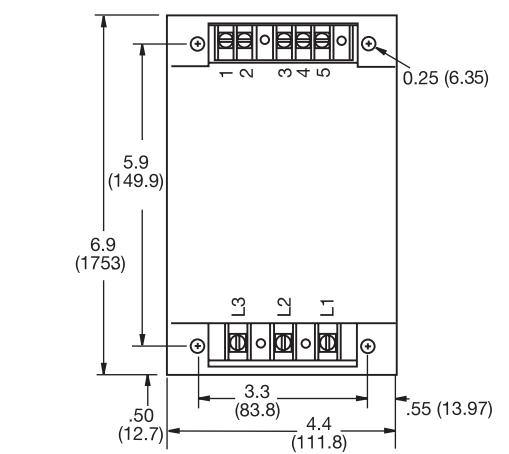
AF

FIGURE 14



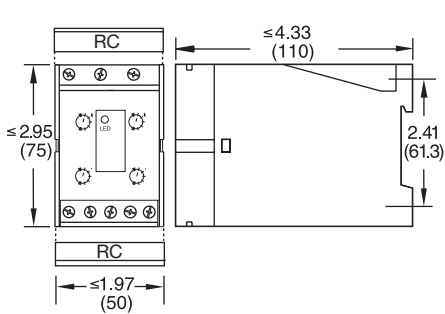
SC3; SC4; SQ

FIGURE 15



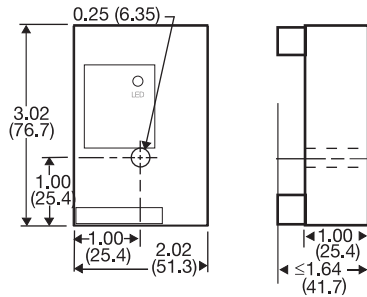
WVM

FIGURE 16



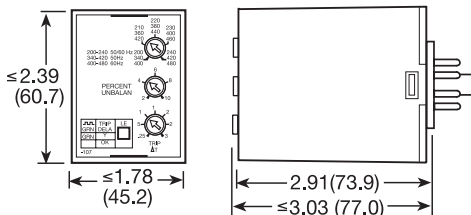
DLMU

FIGURE 17



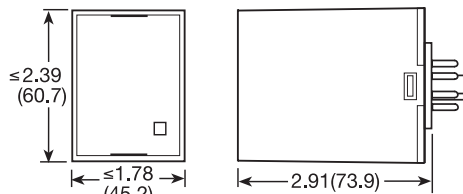
FB9L; HLMU; SCR9L

FIGURE 18



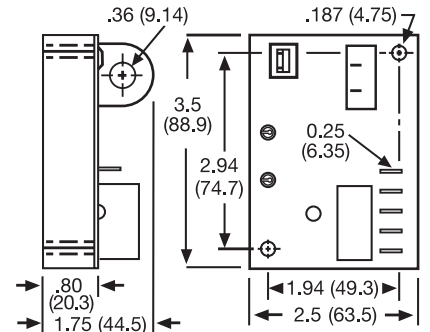
PLMU

FIGURE 19



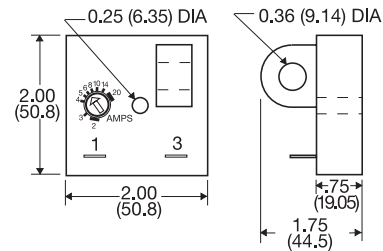
LLC4; LLC6; PLS

FIGURE 20



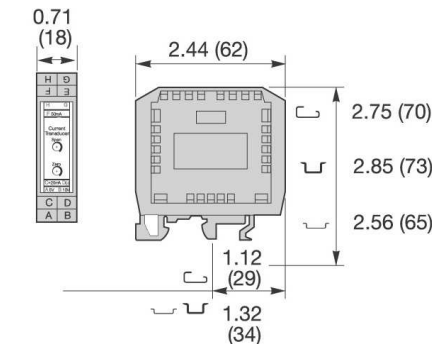
ECS; ECSW (ECS has spade connectors and ECSW has terminal board)

FIGURE 21



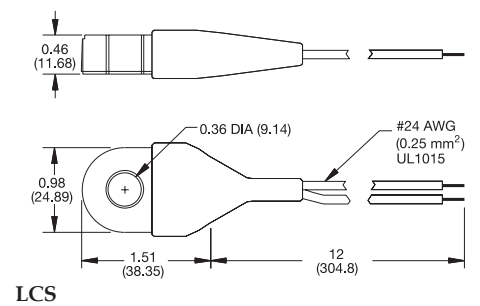
TCS; TCSA

FIGURE 22



DCSA

FIGURE 23



LCS

inches (millimeters)

Appendix C - Connection Diagrams

FIGURE 1 - FSU1000 Series

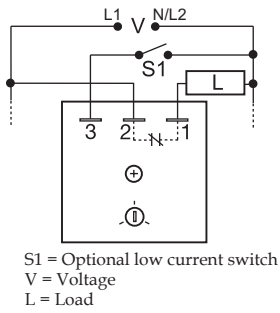


FIGURE 2 - FS100 Series

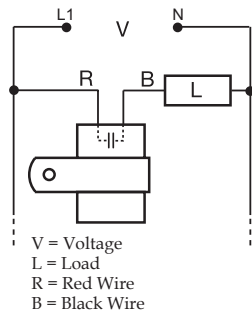


FIGURE 3 - FS100 Series

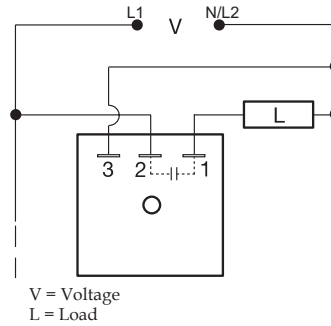


FIGURE 4 - FS200 Series

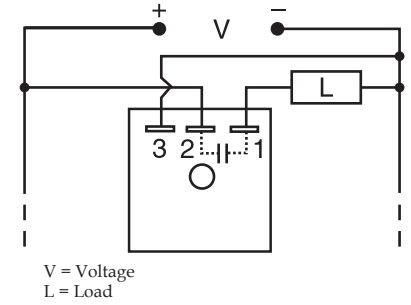


FIGURE 5 - FS300 Series

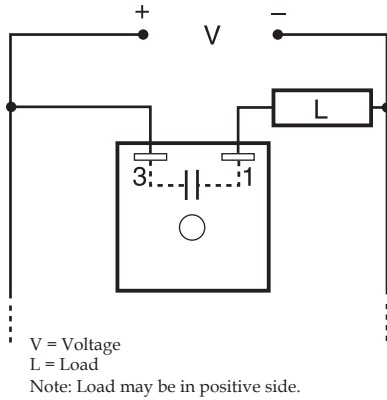


FIGURE 6 - FS400 Series

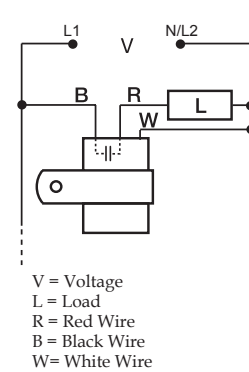


FIGURE 7 - AF Series

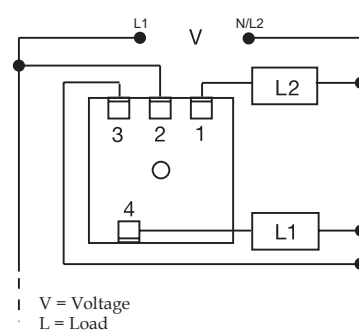


FIGURE 8 - FS500 Series

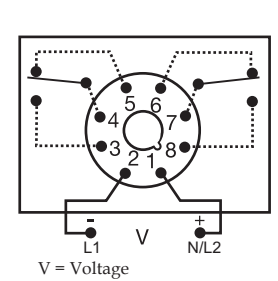


FIGURE 11 - DLMU Series

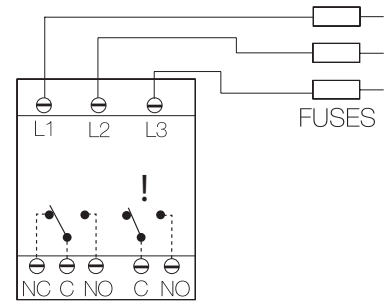


FIGURE 9 - SC3/SC4 Series

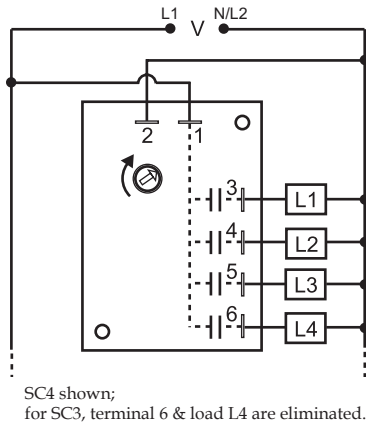


FIGURE 10 - WVM Series

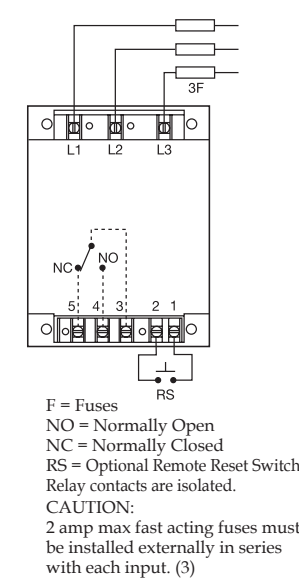


FIGURE 12 - HLMU Series

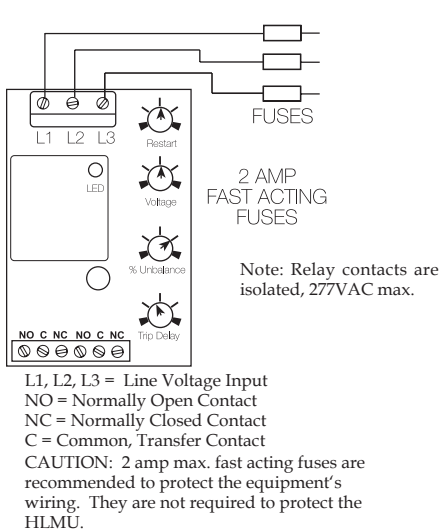


FIGURE 13 - PLMU/PLM/PLR/PLS Series

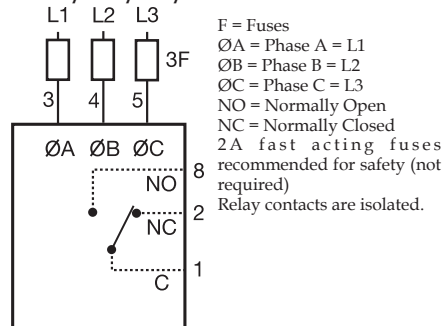


FIGURE 14 - TVM/TVW Series

