

ABB Flashers

Solid State



- FSU..... 6.2
- FS126, FS127, FS146, FS147 6.3
- FS143, FS152, FS162..... 6.4
- FS200 6.5
- FS300 6.6
- FS400 6.7
- AF 6.8

Relay



- FS500 6.9

Chasers



- SC3..... 6.10
- SC4..... 6.10

Universal Flasher

FSU1000 Series


Solid State Flasher



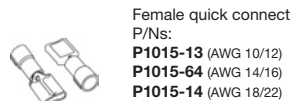
CE

10 YEAR WARRANTY

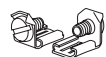
- All Solid State – No Moving Parts or Contacts
- Onboard Adjustable Flash Rate
- Loads up to 20 A
- High Inrush – Up to 200 A
- Universal Voltage – 24 ... 240 V AC

Approvals: 

Accessories



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



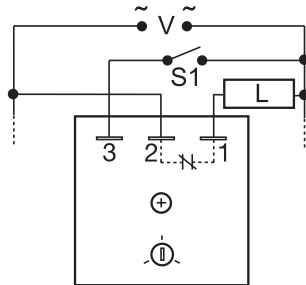
Quick connect to screw adaptor
P/N: **P1015-18**

See accessory pages for specifications.

Description

The FSU1000 incorporates an onboard adjustable flash rate of 10 to 100 flashes per minute and a universal input voltage in one device. Its circuitry is encapsulated and is capable of controlling loads of up to 20 A. The versatility of the FSU1000 makes it ideal for applications where various flash rates and operating voltages are required.

Connection



Dashed lines are internal connections.

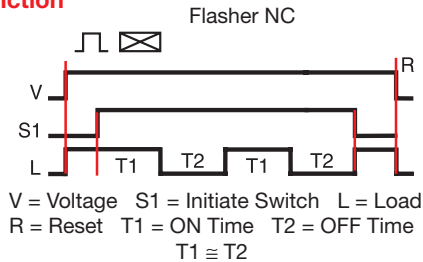
Operation

When input voltage is applied to terminal 2 and the load (lamp), the load energizes steadily. When input voltage is applied to terminal 3, the output flashes.

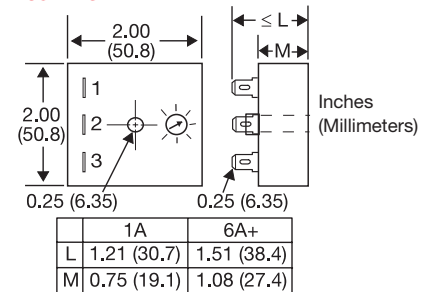
Optional Low Current Switch (S1)

This low current switch could be a limit switch or contact. While open, the operator sees the load (lamp) ON and operating. When the limit switch closes, the load (lamp) flashes to attract attention.

Function



Mechanical View



Ordering Table

| Inrush Rating | Rating | Part Number |
|---------------|--------|-------------|
| 10 A | 1 A | FSU1000 |
| 60 A | 6 A | FSU1003 |
| 100 A | 10 A | FSU1004 |
| 200 A | 20 A | FSU1005 |

Technical Data

Operation ON/OFF recycling solid state flasher (continuous duty)
Flash Rate Adjustable 10 ... 100 FPM
ON/OFF Ratio ≅ 50%

Input

Range/Frequency 24 ... 240 V AC/ 50 ... 60 Hz

Output

Load Type Inductive, resistive, or incandescent
Maximum Load Rating 1, 6, 10, or 20 A steady state
Inrush 10 times steady state current

Mechanical

Mounting * Surface mount with one #10 (M5 x 0.8) screw
Termination 0.25 in. (6.35 mm) male quick connect terminals

Protection

Circuitry Encapsulated

Environmental

Operating Temperature -20°C ... +60°C (240 V AC +50°C)
Storage Temperature -40°C ... +85°C
Weight 1 A units: ≅ 2.4 oz (68 g)
≥ 6 A units: ≅ 3.9 oz (111 g)

*Units rated ≥ 6 A must be bolted to a metal surface using the included heat sink compound. The maximum mounting surface temperature is 90°C.

Flasher - Low Cost

FS100 Series

Solid State Flasher



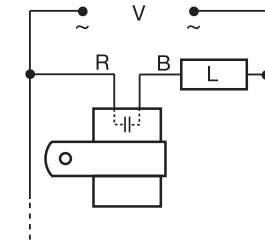
- Fixed Flash Rate at 75 Flashes Per Minute
- Custom Flash Rate 45 ... 150 F.P.M.
- 1 or 2 A Output
- 24 or 120 V AC are Available
- Small Size: 1.5 x 0.94 in. (38 x 23.9 mm)

Approvals:

Description

The FS100 Series may be used to control inductive, incandescent or resistive loads. This series offers a 1 A (fullwave) or a 2 A (halfwave) steady state, 10 A inrush solid state output; and may be ordered with an input voltage of 24 or 120 V AC. The FS100 Series offers a factory fixed flash rate of 75 flashes per minute or may be ordered with a fixed custom flash rate ranging from 45 to 150 flashes per minute. Ideal for OEM applications where cost is a factor.

Connection



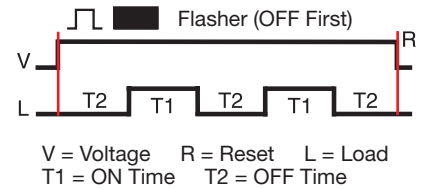
V = Voltage L = Load
R = Red Wire B = Black Wire

Operation

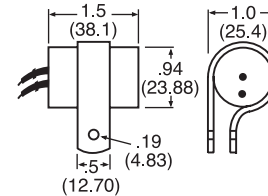
Upon application of input voltage, the T2 OFF time begins. At the end of the OFF time, the T1 ON time begins and the load energizes. At the end of T1, T2 begins and the load de-energizes. This cycle repeats until input voltage is removed.

Reset: Removing input voltage resets the output and the sequence to T2.

Function



Mechanical View



Inches (Millimeters)

Ordering Table

| Input | Output Rating | Output Type | Load Type * | Part Number |
|----------|---------------|--------------|-------------|-------------|
| 120 V AC | 1 A | AC, Fullwave | A | FS126 |
| 120 V AC | 1 A | AC, Fullwave | B | FS126RC |
| 120 V AC | 2 A | AC, Halfwave | A | FS127 |
| 24 V AC | 1 A | AC, Fullwave | A | FS146 |
| 24 V AC | 1 A | AC, Fullwave | B | FS146RC |
| 24 V AC | 2 A | AC, Halfwave | A | FS147 |

* Load Type: A - Incandescent & Resistive B - Incandescent, Resistive & Inductive

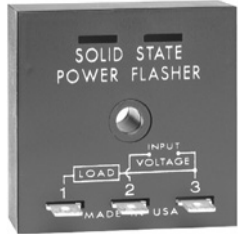
Technical Data Specifications

| | |
|-------------------------------|---|
| Mode of Operation | OFF/ON solid state flasher for continuous duty |
| Flash Rate | Factory fixed at 75 flashes per minute +/-20% |
| Custom Flash Rates Available | From 45 ... 150 FPM +/-20% |
| ON/OFF Ratio | ≅ 50% |
| Input | |
| Voltage | 24, 120 V AC, +/-15%, 50 ... 60 Hz |
| Output | |
| Output | Fullwave AC or Halfwave rectified AC |
| Load Type | Incandescent, resistive, or inductive, (Choose RC Suffix for inductive loads) |
| Maximum Load Rating | Fullwave: 1A steady state; Halfwave: 2 A steady state |
| Inrush | 10 A |
| Mechanical | |
| Mounting | Removable mounting bracket, use one #8 (M4 x 0.7) screw |
| Connection/Wires | 18 AWG (0.82mm ²) wires 6 in. (15.2cm) |
| Package | 1.5 x 0.94 in. (38.1 x 23.9 mm) |
| Protection | |
| Circuitry | Encapsulated |
| Environmental | |
| Operating/Storage Temperature | -20°C ... +60°C/-40°C ... +85°C |
| Humidity | 95% relative, non-condensing |
| Weight | ≅ 1.1 oz (31 g) |

Flasher - Medium/High Power

FS100 Series

Solid State Flasher



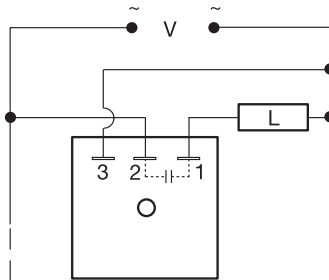
- Fixed at 90 Flashes per Minute
- Custom Flash Rate 10 ... 300 F.P.M.
- Switches Inrush Currents up to 30 A
- 24, 120, or 230 V AC Input Voltages
- Totally Solid State-- Encapsulated

Approvals:

Description

The FS100 Series may be used to control inductive, incandescent, or resistive loads. Input voltages of 24, 120, or 230 V AC are available. Factory fixed flash rate of 90 flashes per minute or may be ordered with a fixed custom flash rate ranging from 10 to 300 flashes per minute. Encapsulation provides protection against shock, vibration, and humidity. This group of solid state flashers has proven reliability with years of use throughout the world.

Connection



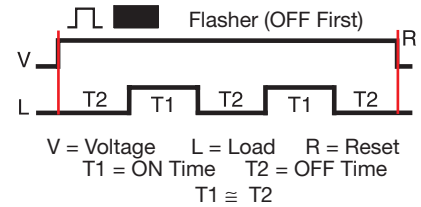
Dashed lines are internal connections.

Operation

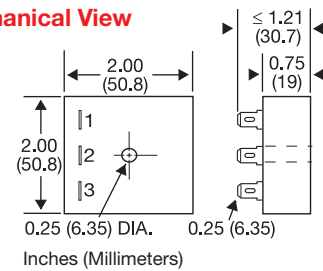
Upon application of input voltage, the T2 OFF time begins. At the end of the OFF time, the T1 ON time begins and the load energizes. At the end of T1, T2 begins and the load de-energizes. This cycle repeats until input voltage is removed.

Reset: Removing input voltage resets the output and the sequence to T2.

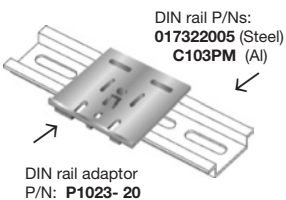
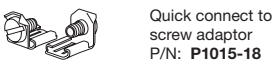
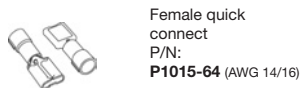
Function



Mechanical View



Accessories



See accessory pages for specifications.

Ordering Table

| Input | Rating | Part Number |
|----------|--------|-------------|
| 24 V AC | 3 A | FS143 |
| 120 V AC | 3 A | FS152 |
| 230 V AC | 3 A | FS162 |

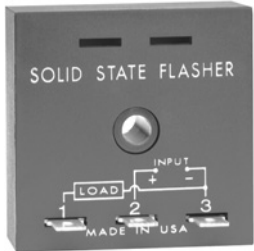
Technical Data

| | |
|-------------------------------|---|
| Operation | OFF/ON solid state flasher for continuous duty |
| Flash Rate | Factory fixed at 90 flashes per minute +/-10% |
| Custom Flash Rates | Available from 10 ... 300 FPM +/-10% |
| ON/OFF Ratio | ≅ 50% |
| Input | |
| Input Voltage | 24, 120, or 230 V AC., +/-15%, 50 ... 60 Hz |
| Output | |
| Load Type | Inductive, resistive, or incandescent |
| Output | Fullwave AC, solid state, SPST |
| Maximum Load Rating | 3 A steady state |
| Inrush | 10 times steady state current |
| Mechanical | |
| Mounting | Surface mount with one #10 (M5 x 0.8) screw |
| Package | 2 x 2 x 1.21 in. (50.8 x 50.8 x 30.7 mm) |
| Termination | 0.25 in. (6.35 mm) male quick connect terminals |
| Protection | |
| Circuitry | Encapsulated |
| Environmental | |
| Operating/Storage Temperature | -20°... +60°C / -40°... +85°C |
| Weight | ≅ 2.2 oz (62 g) |

DC Flasher

FS200 Series

Solid State Flasher



10 YEAR WARRANTY

- Fixed at 90 Flashes per Minute
- Custom Flash Rate 10 ... 180 F.P.M.
- 3 A SPST Output
- 12 ... 110 V DC Input Voltages in 5 Ranges
- Totally Solid State-- Encapsulated
- 0.25 in. (6.35 mm) Male Quick Connects

Description

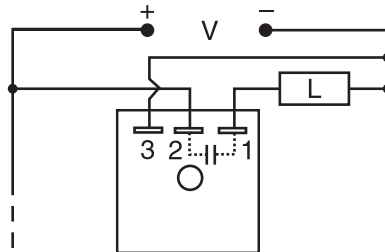
The FS200 Series may be used to control inductive, incandescent, or resistive loads. Input voltages of 12, 24, 36, 48, or 110 V DC are available. Factory fixed flash rate of 90 flashes per minute or may be ordered with a fixed custom flash rate ranging from 10 to 180 flashes per minute. Encapsulation provides protection against shock, vibration, and humidity. Uniform performance, high inrush current capability, and low RFI, make this series ideal for general industrial applications.

Operation

Upon application of input voltage, the T2 OFF time begins. At the end of the OFF time, the T1 ON time begins and the load energizes. At the end of T1, T2 begins and the load de-energizes. This cycle repeats until input voltage is removed.

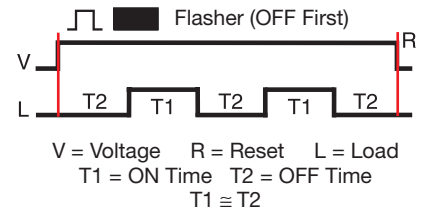
Reset: Removing input voltage resets the output and the sequence to T2.

Connection

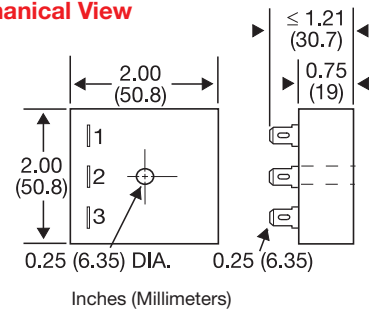


Dashed lines are internal connections.

Function



Mechanical View



6

Accessories

- Female quick connect
P/N: **P1015-64** (AWG 14/16)
- Quick connect to screw adaptor
P/N: **P1015-18**
- Mounting bracket
P/N: **P1023-6**
- DIN rail adaptor
P/N: **P1023-20**

See accessory pages for specifications.

Ordering Table

| Input | Rating | Package | Part Number |
|-----------------|--------|---------------|-------------|
| 12 V DC +/-20% | 3 A | Quick Connect | FS219 |
| 24 V DC +/-20% | 3 A | Quick Connect | FS224 |
| 36 V DC +/-20% | 1 A | Quick Connect | FS236 |
| 48 V DC +/-15% | 0.75 A | Quick Connect | FS248 |
| 110 V DC +/-15% | 0.25 A | Quick Connect | FS290 |

Technical Data

Operation
Flash Rate
Custom Flash Rate
ON/OFF Ratio

OFF/ON solid state flasher for continuous duty
Factory Fixed at 90 flashes per minute +/-10%
Available from 10 ... 180 flashes per minute
≅ 50%

Input

Input Voltage: 12, 24, 36, 48, or 110 V DC

Output

Load Type: Inductive, resistive, or incandescent
Maximum Load Rating: 0.25 ... 3 A steady state
OFF State Leakage Current: ≤ 250 μA

Inrush: 10 times steady state current

Mechanical

Mounting: Surface mount with one #10 (M5 x 0.8) screw
Package: 2 x 2 x 1.21 in. (50.8 x 50.8 x 30.7 mm)
Termination: 0.25 in. (6.35 mm) male quick connect terminals

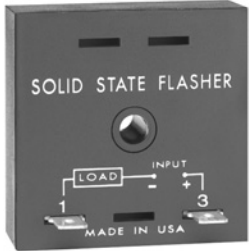
Protection

Circuitry: Encapsulated

Environmental

Operating Temperature: -20°C ... +60°C
Storage Temperature: -40°C ... +85°C
Weight: ≅ 2.2 oz (62 g)

DC Flasher FS300 Series Solid State Flasher



10 YEAR WARRANTY

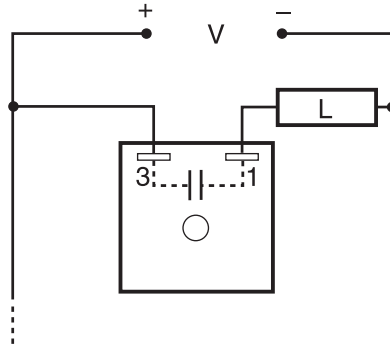
- Totally Solid State – No Mechanical Contacts to Arc and Wear
- High Surge Capability – Designed to Operate Incandescent Lamp Loads
- High Noise and Transient Protection
- Two-Terminal Series Connection
- Encapsulated – Protects Against Shock, Vibration, and Humidity

6

Description

The FS300 Series of solid state flashers were specifically designed to operate lamp loads. Their two-terminal series connection feature makes installation easy. The high immunity to line noise and transients makes the FS300 Series ideal for moving vehicle applications. All solid state construction means reliability and long life.

Connection



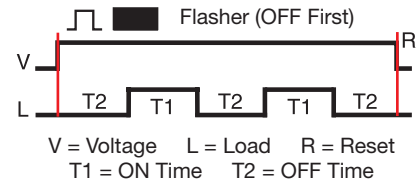
Note: Load may be in positive side

Operation

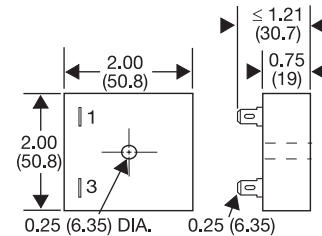
Upon application of input voltage, the T2 OFF time begins. At the end of the OFF time, the T1 ON time begins and the load energizes. At the end of T1, T2 begins and the load de-energizes. This cycle repeats until input voltage is removed.

Reset: Removing input voltage resets the output and the sequence to T2.

Function



Mechanical View



Inches (Millimeters)

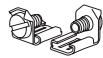
Ordering Table

| Input | Maximum Load Current | Part Number |
|-----------------|----------------------|-------------|
| 12 V DC +/-20% | 2.5 A | FS312 |
| 24 V DC +/-20% | 1.5 A | FS324 |
| 36 V DC +/-20% | 1.0 A | FS336 |
| 48 V DC +/-15% | 0.75 A | FS348 |
| 72 V DC +/-15% | 0.5 A | FS372 |
| 110 V DC +/-15% | 0.25 A | FS390 |

Accessories



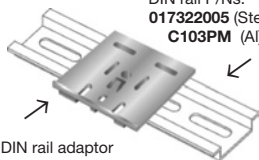
Female quick connect
P/N:
P1015-64 (AWG 14/16)



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



Mounting bracket
P/N: **P1023-6**



DIN rail P/Ns:
017322005 (Steel)
C103PM (Al)

DIN rail adaptor
P/N: **P1023-20**

See accessory pages for specifications.

Technical Data

Specifications

Mode of Operation: OFF/ON recycling solid state flasher (continuous duty)
Flash Rate: Fixed at 75 flashes per min +/-10%
Custom Flash Rates: Available from 60 ... 150 flashes per min
ON/OFF Ratio: ≈ 50%

Input

Input Voltage: 12, 24, 36, 48, 72, and 110 V DC

Output

Load Type: Incandescent or resistive
Maximum Load Rating: 0.25 ... 2.5 A steady state
Inrush: 10 times steady state current

Mechanical

Mounting: Surface mount with one #10 (M5 x 0.8) screw
Package: 2 x 2 x 1.21 in. (50.8 x 50.8 x 30.7 mm)
Termination: 0.25 in. (6.35 mm) male quick connect terminals

Protection

Circuitry: Encapsulated

Environmental

Operating/Storage Temperature: -20°... +60°C / -40°... +85°C
Humidity: 95% relative; non-condensing
Weight: ≈ 2.2 oz (62 g)

Flasher - LED Lamps

FS400 Series

Solid State Flasher

Flashers



- Low Leakage for LED Lamps
- Fixed Flash Rate at 75 Flashes Per Minute
- Custom Flash Rate 45 ... 150 F.P.M.
- 0.5 or 1 A Solid State Output
- 24 V to 240 V AC in 2 Ranges
- Small Size: 1.5 x 0.94 in. (38 x 23.9 mm)

Approvals:

Description

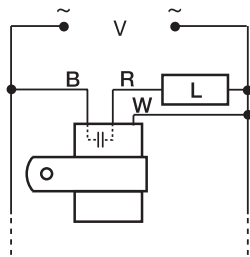
The FS400 Series is a low leakage AC flasher designed to control LED, or resistive loads. This series offers a solid state output and may be ordered with an input voltage of 24 V to 240 V AC, in two ranges. It offers a factory fixed flash rate of 75 flashes per minute or may be ordered with a fixed custom flash rate ranging from 45 to 150 flashes per minute. The FS400 is the perfect solution for LED lamp flashing.

Operation

Upon application of input voltage, the output energizes and the ON time begins. At the end of the ON time, the output de-energizes and the OFF time begins. At the end of the OFF time, the output energizes and the cycle repeats as long as input voltage is applied.

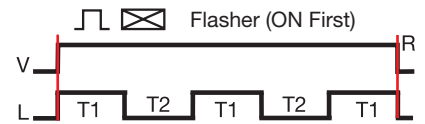
Reset: Removing input voltage resets the output and the flash sequence.

Connection



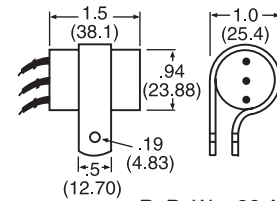
V = Voltage L = Load
R = Red Wire B = Black Wire
W = White Wire

Function



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

Mechanical View



R, B, W = 20 AWG (0.52 mm²) wires
6 in. (15.2 cm)
Mounting bracket is removable

Ordering Table

| Input | Output Rating | Part Number |
|-----------------------|---------------|-------------|
| 120 V AC ... 240 V AC | 0.5 A | FS491 |
| 24 V AC | 1 A | FS421 |

Technical Data

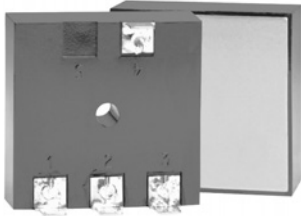
| Operation | Technical Data |
|---------------------------------|--|
| Mode of Operation | ON/OFF solid state flasher for continuous duty |
| Flash Rate | Factory fixed at 75 flashes per minute +/-20% |
| ON/OFF Ratio | ≅ 50% |
| Custom Flash Rates Available | From 45 ... 150 FPM +/-20% |
| Input | |
| Voltage | 24, or 120 ... 240 V AC |
| Tolerance | +/- 15% |
| Frequency | 50 ...60 Hz |
| Output | |
| Load Type | LED or resistive |
| Output | Bridge Rectifier and FET |
| Maximum Load Rating | 120 V AC...240 V AC |
| | 24 V AC |
| | 0.5 A steady state; 5 A Inrush |
| | 1A steady state; 10 A Inrush |
| Max. Load Leakage Current | 250 μA |
| Voltage Drop | 2 V Typical |
| Mechanical | |
| Mounting | Surface mount with one #8 (M4 x 0.7) screw |
| Package | 1.5 x 0.94 in. (38.1 x 23.9 mm) |
| Protection | |
| Surge | IEEE C62.41 - 1991 Level A |
| Circuitry | Encapsulated |
| Environmental | |
| Operating / Storage Temperature | -20°C ... +60°C / -40°C ... +85°C |
| Humidity | 95% relative, non-condensing |
| Weight | ≅ 1.1 oz (31 g) |

FS401B01 02:10:05

Alternating Flasher

AF Series

Solid State Flasher



TEN YEAR
WARRANTY

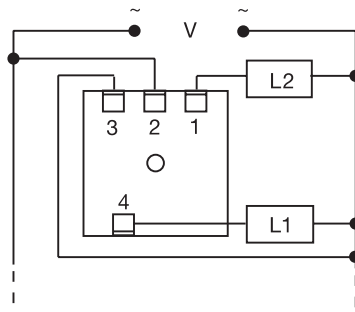
- Alternately Flashes Two High Current Loads
- High Surge Capacity -- Up to 200 A
- Small Size -- 2 x 2 x 1.30 in. (50.8 x 50.8 x 33 mm)
- Totally Solid State & Encapsulated

6

Description

The AF Series offers a high inrush capacity of up to 200 A. These devices exceed mechanical type relays in both performance and lifespan. The AF Series is constructed with no moving parts to arc, wear, and eventually fail; 100 million operations are typical. Circuitry is encapsulated to provide protection against vibration and moisture, making the AF Series ideal for outdoor applications.

Connection

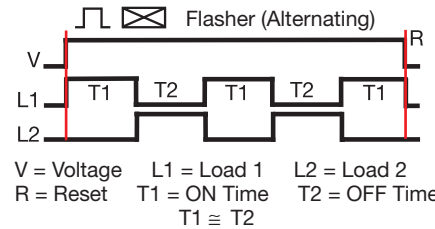


Operation

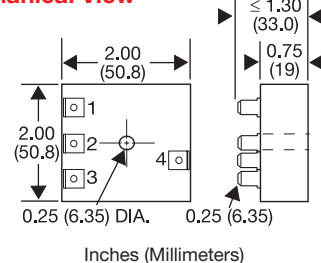
Upon application of input voltage T1 begins, Load 1 is ON and Load 2 is OFF. At the end of T1, T2 begins and Load 2 is now ON and Load 1 is OFF. At the end of T2, T1 repeats and this sequence continues until input voltage is removed. The duration of T1 and T2 is approximately equal.

Reset: Removing input voltage resets the flasher.

Function



Mechanical View



Ordering Table

| AF Series | X Input | X Output Rating | X Flash Rate (flashes per min.) |
|-----------|---------------|-----------------|---------------------------------|
| | -1 - 24 V AC | -1 - 6 A | -1 - 10 |
| | -2 - 120 V AC | -2 - 10 A | -2 - 30 |
| | -3 - 230 V AC | -3 - 20 A | -3 - 60 |
| | | | -4 - 90 |
| | | | -5 - 120 |
| | | | -6 - 140 |
| | | | -9 - Custom Flash Rate |

Example P/N: **AF224** Custom Flash Rate - **AF229-45**

Technical Data

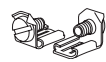
| | |
|---------------------------------|---|
| Operation | Alternating solid state flasher rated for continuous duty |
| Flash Rate | Factory fixed at 10, 30, 60, 90, 120, or 140 flashes per min. +/-10%. |
| Custom Flash Rate Ratio | Specify as any number between 10 & 140, inclusive ≈ 50% |
| Input | |
| Input Voltage, Frequency | 24, 120, or 230 V AC +/-15%, 50 ... 60 Hz |
| Output | |
| Load Type | Incandescent or resistive |
| Maximum Load Rating | 6, 10, & 20 A steady state |
| Inrush | 10 times steady state current |
| Mechanical | |
| Mounting * | Surface mount with one #10 (M5 x 0.8) screw |
| Package | 2 x 2 x 1.30 in. (50.8 x 50.8 x 33 mm) |
| Protection | |
| Circuitry | Encapsulated |
| Environmental | |
| Operating / Storage Temperature | -20°C ... +60°C / -40°C ... +85°C |
| Humidity | 95% relative, non-condensing |
| Weight | ≈ 2.9 oz (82 g) |

*Must be bolted to metal surface using the included heat sink compound. The maximum mounting surface temperature is 90°C.

Accessories



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



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

See accessory pages for specifications.

Flasher - Relay Output

FS500 Series

Solid State Flasher

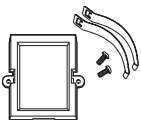


10 YEAR WARRANTY

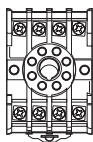
- Solid State Circuitry--Relay Output
- Industrial Standard Octal Plug-in
- Adjustable Flash Rate 10 ... 100 FPM
- 10 A DPDT Output Contacts

Approvals: (some models)

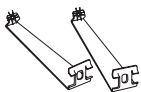
Accessories



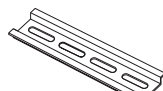
Panel mount kit
P/N: **BZ1**



Octal 8-pin socket
P/N: **NDS-8**



Hold down clips
P/N: **PSC8**



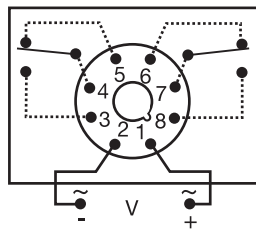
DIN rail P/Ns:
017322005 (Steel)
C103PM (Al)

See accessory pages for specifications.

Description

The FS500 Series flash rate is adjustable from 10 to 100 flashes per minute. A locknut is provided to hold selected flash rate. The long-life electronic circuit combined with a quality electromechanical relay provides flexibility and reliability in most applications.

Connection



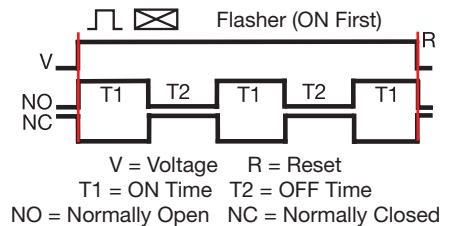
Dashed lines are internal connections.

Operation

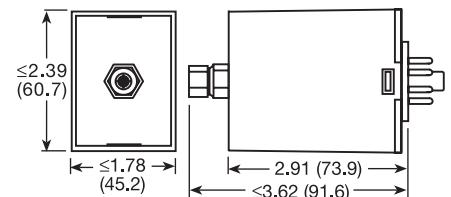
Upon application of input voltage, the output relay is energized and the ON time begins. At the end of the ON time, the output relay de-energizes and the OFF time begins. At the end of the OFF time, the output is energized and the cycle repeats as long as input voltage is applied.

Reset: Removing input voltage resets the output and the sequence.

Function



Mechanical View



Inches (Millimeters)

Ordering Table

| Input | CSA | Part Number |
|-------------|-----|-------------|
| 12 V DC | * | FS512 |
| 24 V AC/DC | * | FS524 |
| 120 V AC/DC | * | FS590 |
| 230 V AC | * | FS599 |

Technical Data

Specifications

Mode of Operation

Flash Rate

ON/OFF Ratio

Input

Input Voltage

Tolerance 12 V DC & 24 V DC/AC
120 ... 230 V AC/DC

Frequency

Output

Type

Rating

Mechanical

Mounting

Termination

Protection

Isolation Voltage

Polarity

Environmental

Operating/Storage Temperature

Weight

ON/OFF recycling flasher with adjustable flash rate
Adjustable from 10 ... 100 operations per minute
(guaranteed range)
≅ 50%

12 V DC, 24 V AC/DC, 120 V AC/DC, 230 V AC
-15% ... +20%
-20% ... +10%
50 ... 60 Hz

Electromechanical relay DPDT
10 A resistive at 120/240 V AC & 28 V DC;
1/3 hp at 120/ 240 V AC

Plug-in socket
8 pin Octal plug

≥ 1500 V RMS input to output
DC units are reverse polarity protected

-20°... +60°C / -30° ... +85°C
≅ 5.8 oz (164 g)

Chaser (Flasher) SC3/SC4 Series Timing Module



10 YEAR WARRANTY

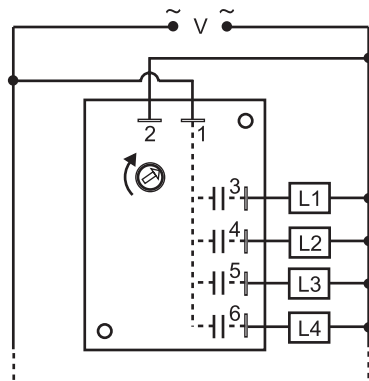
- Sequential 3 or 4 Circuit Flashing of Incandescent Loads
- Fixed or Adjustable Flash Rates - 30 ... 300 per m
- 1 A Steady State Output
- 24, 120, or 230 V AC Input Voltage
- Totally Solid State and Encapsulated

Approvals:

Description

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.

Connection



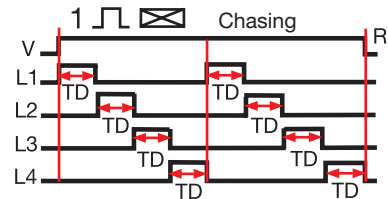
SC4 shown; for SC3, terminal 6 & load L4 are eliminated.
Dashed lines are internal connections.

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.

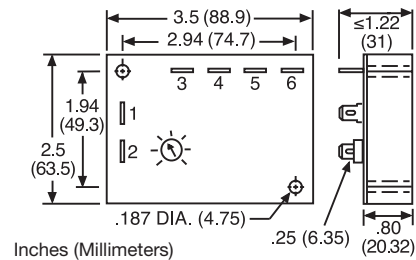
Function



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)

Mechanical View



Ordering Table

X
Series
- SC3 (3 outputs)
- SC4 (4 outputs)

X
Input
- 24 - 24 V AC
- 120 - 120 V AC
- 230 - 230 V AC

X
Rate
- A - Adjustable (30 ... 300)
- F - Fixed *
*If Fixed is selected, insert [30 ... 300] operations per minute.

Example P/N: SC3120A, SC424F100

Technical Data Specifications

Mode of Operation

Sequential 3 or 4 circuit flashing of incandescent lamp loads. Fixed or adjustable rates.
Adjustable: 30 ... 300 operations per minute
Fixed: 30 ... 300 operations per minute (+/-10%)

Rate

Input

Input Voltage
Frequency

24, 120, or 230 V AC +/-15%
50 ... 60 Hz

Output

Type
Rating

Solid state
1 A steady state per output

Mechanical

Mounting
Termination
Package

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
Dielectric Breakdown
Insulation Resistance

Encapsulated
≥ 2000 V RMS terminals to mounting surface
≥ 100 MΩ

Environmental

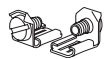
Operating / Storage Temperature
Humidity
Weight

-20°C ... +60°C / -40°C ... +85°C
95% relative, non-condensing
≅ 5.4 oz (153 g)

Accessories



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



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

See accessory pages for specifications.