

CMD-003 Fading Module

The CMD-003 Fading Module is similar in operation to the Variable Flashing Module CMD-004 when the "Flashing" option is selected, but it has an additional (7) modes of operation when the "Fading" option is selected. The rate at which the module cycles through a particular pattern is set in the same way as the Variable Flashing Module (CMD-004). When the fading option is selected, the module can be set to fade smoothly on and off in an infinite number of patterns, using any one of seven basic Fading Modes of operation.

The following diagrams portray the seven Fading Modes which can be set and adjusted to suit the application requirements. The seven Fading Modes are: 1. Fade Full On & Fade Full-Off (the default setting); 2. Soft Breathing (lamp fades on from a dim setting to a brighter setting and fades back); 3. Snap-On and Fade-Off; 4. Fade-On and Snap-Off; 5. Hold-On; 6. Hold-Off; 7. Hold-On and Hold-Off.

The directions below assume that the 4 potentiometers are all turned in the fully CCW positions, and then adjusted to the positions listed below in each of the fading and flashing modes. Cycle times range from approximately 1 second for the shortest cycle to approximately 14.5 seconds for the longest cycle. The On-Time and Off-Time potentiometers can either be set to the same settings for 50%-On / 50%-Off duty cycle, or they can be set to different settings where a longer on-time or off-time is desired. The listed potentiometer settings are suggested starting points for each mode and can be adjusted as needed.

Note: Before connecting the CMD-003 to the inverter, confirm that the inverter has been properly set to operate the lamp at the maximum operating brightness required for this application. Once the inverter is set, connect the CMB-003 to the inverter and set the fading or flashing adjustments to get the exact effect desired.

7 Fading Modes

1. Fade full on & fade full off

(Default Setting)

Potentiometer Settings

On Time: ¼ Turn CW

Off Time: ¼ Turn CW

Amplitude: ¼ Turn CW

Bias: ¼ Turn CW



Description: Alternately fades from fully on to fully off. (Cycle time at this setting is around 5 seconds.)

KEY



2. Soft Breathing

Potentiometer Settings

On Time: $\frac{1}{4}$ Turn CW
Off Time: $\frac{1}{4}$ Turn CW
Amplitude: $\frac{1}{8}$ Turn CW
Bias: $\frac{3}{8}$ Turn CW

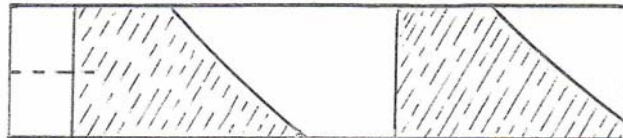


Description: Alternately fades from brighter to dimmer output

3. Snap-On & Fade-Off

Potentiometer Settings

On Time: Full CCW
Off Time: $\frac{3}{8}$ Turn
Amplitude: Full CW
Bias: $\frac{3}{8}$ Turn CW



Description: Alternately turns on quickly and fades off slowly.

4. Fade-On & Snap-Off

Potentiometer Settings

On Time: $\frac{3}{8}$ Turn CW
Off Time: Full CCW
Amplitude: Full CW
Bias: $\frac{1}{8}$ Turn CW



Description: Alternately turns on slowly and turns off quickly.

5. Hold-On

Potentiometer Settings

On Time: $\frac{1}{4}$ Turn CW
Off Time: $\frac{1}{4}$ Turn CW
Amplitude: Full CW
Bias: $\frac{1}{2}$ Turn CW



Description: Alternately fades on and pauses on, before fading off.

6. Hold-Off

Potentiometer Settings

On Time: ¼ Turn CW
Off Time: ¼ Turn CW
Amplitude: Full CW
Bias: 1/8 Turn CW



Description: Alternately fades off and pauses off, before fading on.

7. Hold-On & Hold-Off

Potentiometer Settings

On Time: ¼ Turn CW
Off Time: ¼ Turn CW
Amplitude: Full CW
Bias: ¼ Turn CW



Description: Alternately fades on and pauses on, before fading off and pausing off.

FLASHING MODES

NOTE: Timing Potentiometers Default Settings Are: 50% On-time and a 50% Off-time.

Fast Rate / Slow Rate

Potentiometer Settings

Fast Rate: Both full CCW
Slow Rate: Both full CW

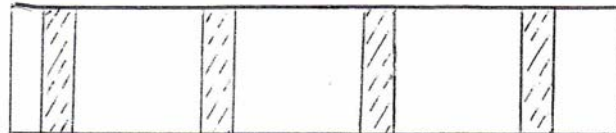


Description: Alternately flashes on and off. Cycle times ranges from approximately 1 sec to 14.5 sec.

Short On / Long Off

Potentiometer Settings

On-Time: Full CCW
Off-Time: Full CW



Long On / Short Off

Potentiometer Settings

On-Time: Full CW
Off-Time: Full CCW

