smart vision lights

PGM STROBOSCOPE MODULE

product introduction

The PGM Stroboscope Module is a free running pulse generator that causes any attached light to strobe at the set pulse rate. The PGM operates at a 10% duty cycle, meaning the light will be active for 10% of the period and rest for 90% of the period. The pulse rate can be set to any frequency from 12 to 4000 Hz with 2 rotary dials. The first dial has 8 positions consisting of 12, 25, 50, 100, 200, 400, 800, and 1600 Hz. The second dial allows the user to finely adjust the frequency set by the first dial. This dial can be set up to 2 times the frequency of the first dial. The Stroboscope Module can be used on standard or OverDrive LED lights.
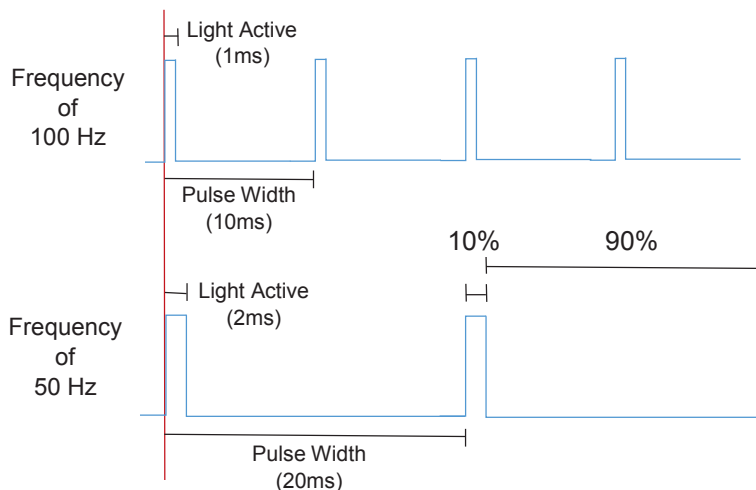
product features

- Male to female connection
- Set pulse frequency with 8 position rotary selector and adjustor
- Pulse settings from 12Hz to 4000 Hz
- Frequency adjustable to over 2 times setting
- Generates a 10% Duty Cycle pulse train
- Powered by 24VDC
- NPN strobe output/sinking
- LED will indicate strobe output

operation

Frequency of 100 Hz
Light Active (1ms)
Pulse Width (10ms)

Frequency of 50 Hz
Light Active (2ms)
Pulse Width (20ms)

10% 90%

The Stroboscope will set the frequency of the pulse. The module will always operate at a 10% duty cycle.

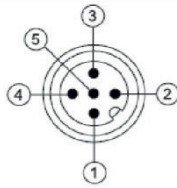ON-10%

OFF-90%

STEMMER® IMAGING

> **!** **Attention**
> Please note that minimal power requirements for attached light must be met. See Data Sheet for attached light if minimal power requirements are unknown. Contact Smart Vision Lights for more information.

wiring configuration

1 - 24V
2 - NPN
3 - GND
4 – NC
5 - 0-10V

Standard M12 mating cable color code:

BROWN
WHITE
BLUE
BLACK
*GRAY (GREEN/YELLOW)

If Analog 0-10 VDC is not used to control light intensity;
+VDC (24VDC) must be connected to Analog Input - Jumper pin 5 to pin 1

PIN	Wire Color	Function	Signal
1	BROWN	Power	+24 VDC
2	WHITE	NPN Strobe	GND for Active ON
3	BLUE	Ground	GND
4	BLACK	Not Connected	N/A
5	GREEN	Analog Intensity Control	0-10 VDC

Power, Ground, and 0-10V signal pass directly from male to female connectors.

The NPN signal is generated by the stroboscope and sent to the attached light.

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