

PULSE TIMING MODULE



product introduction

Current OverDrive lights are pulse following while high speed cameras are pulse initiated. High speed cameras operate by sending a strobe pulse but then expect the light output to be on for 20, 50, 100, 250, 500, 750, or 1000 microseconds. A common strobe pulse of 5 μ s at the TTL level is used by high speed cameras. The Pulse Initiated Timing Module accepts a pulse of 5 μ s or longer and holds the pulse for the selected duration. The PTM allows the user to select a pulse length from 8 preset durations. The Module has a male M12 connector input which will connect to the camera and a female M12 output which will connect to OverDrive lights.



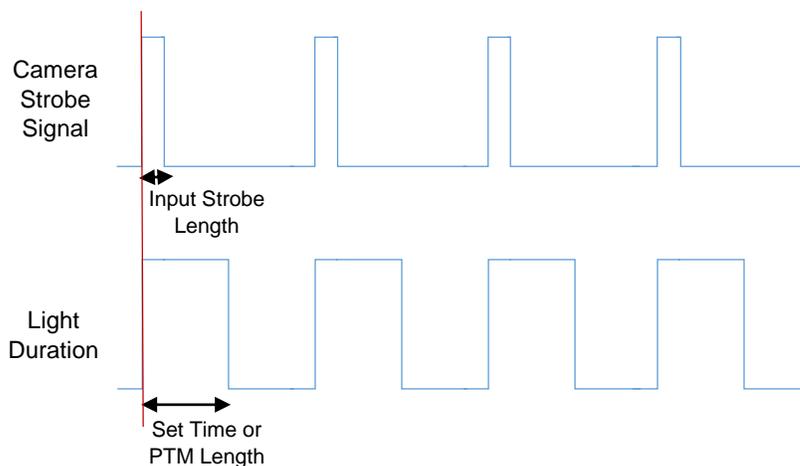
product features



- Male to female connection
- Accepts a pulse of 5 μ s or longer
- Ability to set pulse time with 8 position rotary selector
- Pulse settings from 20 μ s to 250ms
- Reaction time or latency of 5 μ s
- Powered by 24VDC
- NPN and PNP strobe
- LED will indicate strobe output



operation



Light Duration is determined by the selectable set time on the PTM and does NOT depend the camera strobe signal. Light triggers on rising edge of strobe pulse.



warnings

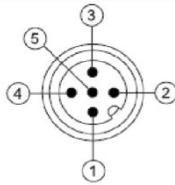


Attention

Please note that pulses less than 5µs will not generate a valid strobe pulse. Instead a short pulse similar to the input pulse will be output. Contact Smart Vision Lights for more information.



wiring configuration



- 1 - 24V
- 2 - NPN
- 3 - GND
- 4 - PNP
- 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	+24VDC
2	WHITE	NPN Strobe	GND for Active ON
3	BLUE	Ground	GND
4	BLACK	PNP Strobe	4VDC to 30VDC for Active ON
5	GREEN	Analog Intensity Control	0-10VDC



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

The extended pulse is output to the NPN pin of the female connector. PNP is not connected on the female connector.