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Manual and wiring instructions for Controller Mini CM-01

Use



The controller CM-01 is used for light intensity control of SmartView lights. The controller can regulate light intensity of all camera system lights which are using 24V DC. Read this manual before wiring the light.



Warning!

Do not exceed the maximum permitted load on the controller. You can connect several lights to output terminals of the controller in parallel to regulate their intensity all at once. Before wiring check the maximum current value on the datasheet of the lights you are intending to regulate with the controller. The sum of those values must not exceed 1A. If you are using any SmartView light with ENABLE (EN) input you can connect multiple lights in parallel to the controller as the EN input only requires < 3 mA of current at 24V DC to trigger the light.

Check the wiring before connecting the power supply for the first time.

The controller is equipped with reverse polarity protection on the power input and 1A fuse for overload protection on PWM output. Despite these measures pay attention to the correctness of the wiring.

Function

Connection of power supply is indicated by the green LED POWER.

The yellow LED DIMMER OUT indicates the light intensity set by potentiometer INTENSITY.

For continuous illumination bridge the pins 1-2, this disables the TRIG input.

Leaving the bridging jumper between pins 2-3 (default from manufacturing) will cause the light to activate only if there is logical 1 on TRIG input (voltage of 3-28V DC max).

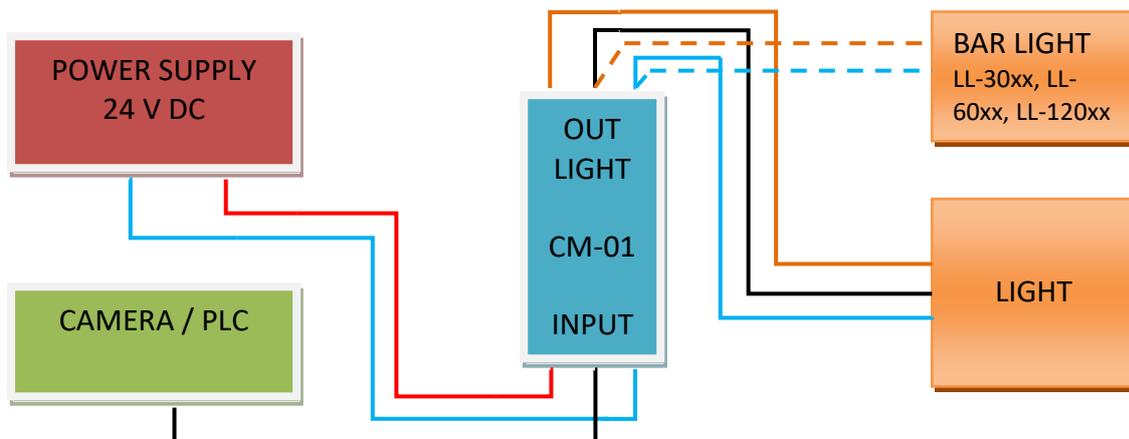
The activation logic can be inverted by bridging pins 3-4 INVERT TRIG. This will cause the light to activate on logical 0 (0-3 V DC on TRIG input).

Indication and Control elements of CM-01

Green LED POWER – Indicates the presence of power supply voltage of +24V DC

Yellow LED DIMMER OUT – Indicates the light intensity of PWM output.

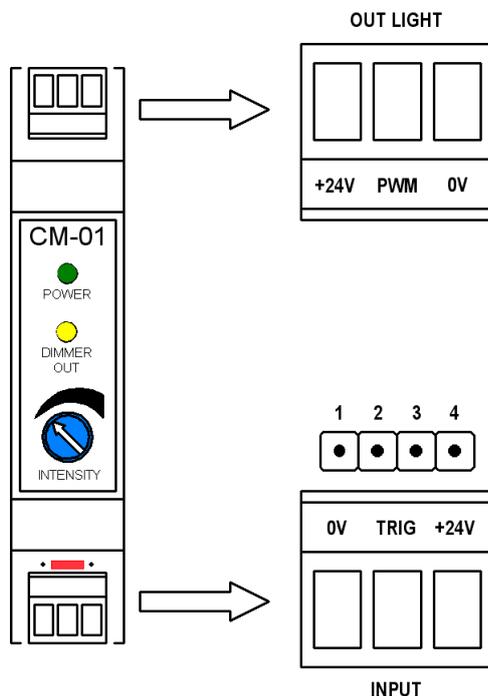
Potentiometer INTENSITY – Rotating will change the light intensity.



Technické vlastnosti

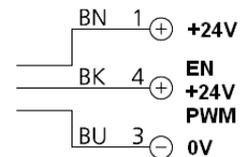
Voltage range	U_n	20 - 28V
Nominal voltage	U_{jm}	24 V DC
Max. output current 24V	$I_{max_24V\ DC}$	2,5 A
Max. output current of PWM output	I_{max_PWM}	1 A
Max. power of PWM output	P_{max}	24 W
Trigger voltage	U_{trig}	3 - 28 V
Trigger current at $U_{trig} = 24V$	I_{trig}	2,3 mA
Ambient temperature	t_a	-20 až +60 °C
Protection category		III.
International Protecting Marking	IP	IP40

CM-01 controller wiring



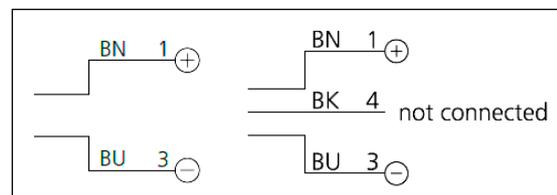
Output Terminals OUT LIGHT – Light connection.
(All lights beside LL-30., LL-60., LL-120..)

Terminal +24V - pos. pole of the light
Terminal PWM - EN(enable), PWM
Terminal 0V - neg. pole of the light



Wiring the LL-30., LL-60., LL-120..

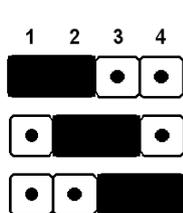
Terminal +24V - not connected
Terminal PWM - positive pole of the light
Terminal 0V - negative pole of the light



Input terminal INPUT – connecting the 24V DC power supply leads and control signal.

Terminal +24V - positive pole of the 24V DC power supply
Terminal 0V - negative pole of the 24V DC power supply
Terminal TRIG - Control signal for enabling the light from Camera or PLC.

Operating mode selection for CM-01



Jumper

1-2 ENABLE - Continuous illumination

2-3 NOT USED (default from manufacturing)

1-2 INVERT TRIG - The light activates on logical 0 (0-3 V DC on TRIG input).