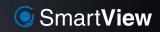
MINI SPOT LIGHT



SP2-12

Direct intensive illumination of distant objects and codes.



MINIMAL INSTALLATION DIMENSIONS

EXCEPTIONAL ILLUMINATION POWER

ANALOGUE CONTROL OF LIGHTING INTENSITY

LIGHT OPERATING MODES

PERMANENT ILLUMINATION MODE

The light is designed for both the permanent and light-triggering mode. For permanent illumination bring the voltage of 10-24 V to the pin number 4 (black wire). The light is ON during the time when the 24 V EN signal is activated. Use a PCL, camera or another binary signal source. For the light intensity control, please see the text below.

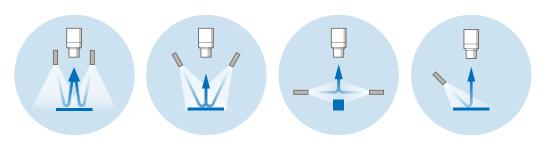
LIGHT TRIGGERING MODE

Light triggering mode saves energy and extends the lifetime of the light. Trigger operation mode is recommended when a parallel operation of 2 or more lights might affect the quality of the acquired image. To start using a triggering mode, bring the pin number 4 (black wire) to a 10-24 V signal. The light is ON when a voltage of 24 V is present at pin number 4 then. Use a PCL, camera, or another binary signal source for triggering. For the light intensity control, please see the text bellow.

LIGHT SOURCE INTENZITY REGULATION

The light intensity might be regulated by an analogue voltage, PWM signal or an external controller. In case of using an analogue signal, the light intensity might be regulated in a linear way at a pin number 4 by the voltage span of 2.7 - 10 V. Bringing a voltage of 10-24 V to the pin number 4, the light works at its maximum intensity. The maximum PWM frequency is ≤ 40 kHz.

WAYS OF USE





* Applies for devices with wavelength UV405, UV395, UV385 and UV365. This type of a light has a source of ultra violet radiation. Avoid direct exposure of eyes and unprotected parts of skin. Install the light in a safe way to avoid accidental or deliberate damage of unprotected human skin by UV light radiation. Mark room/area of use with a warning sign.

ORDERING CODE

example of the ordering code

(

| SP2 - | | - 12 | | B470 | | |
|------------|---|------------------|--|---------------------------|--|--|
| Spot Light | Ø | Ø of Active Area | | Exact Wavelength Value | | |

CONFIGURATION

| Model | Wavelength [nm] | Ø of Active Area [mm] |
|----------|-----------------------|-----------------------|
| SP2-12W | CTR 5000 k | 12 |
| SP2-12IR | 940 850 | 12 |
| SP2-12R | 660 625 | 12 |
| SP2-12G | 528 | 12 |
| SP2-12B | 470 | 12 |
| SP2-12UV | 405 395 385 365 | 12 |

ELECTRIC PARAMETERS

| | Model | • SP2-12W | SP2-12IR | SP2-12R | SP2-12G | SP2-12B | • SP2-12UV |
|-------------------|-----------------|---|------------------|---------------|---------|---------|------------|
| Un | Voltage Span | 12-28 V | 12-28 V | 12-28 V | 12-28 V | 12-28 V | 12-28 V |
| U _{jm} | Nominal Voltage | 24 V DC | 24 V DC | 24 V DC | 24 V DC | 24 V DC | 24 V DC |
| I _{jm} | Nominal Current | 70 mA | 70 mA | 60 mA | 70 mA | 70 mA | 70 mA |
| Р | Input | 1.7 W | 1.7 W | 1.5 W | 1.7 W | 1.7 W | 1.7 W |
| | | | | | | | |
| U _{trig} | Trigger Voltage | \geq 10 - 24 V ² I _{trip} | , Trigger Currei | nt 2.3 | mA 2 | | |

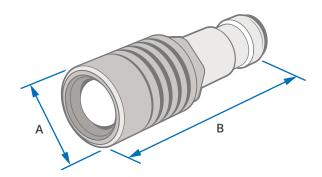
 U_{eN} Analogue Dimming $\geq 2.7 .. \leq 10 V 2$ I_{eN} PWM Dimming $> 10 V .. \leq 24 V 1$

1 PWM maximal rate is ≤ 40 kHz 2 EN (Enable) trigger signal values, M8 connector – pin number 4

DIMENSIONS & WEIGHT



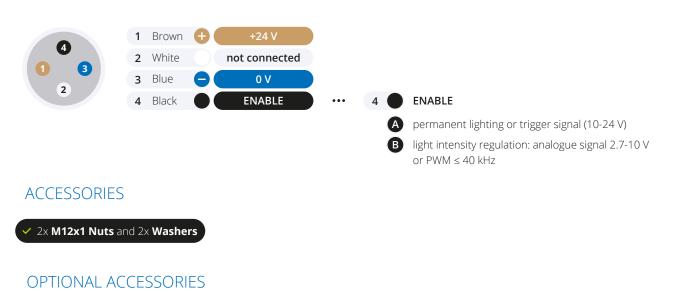
For more details please see our 2D drawings.



TECHNICAL DATA

CONNECTOR M12-4PIN ASSIGNMENT

light connector front view



+ Cable with Connector M12 4-Pin Female 5m

+ Controller Smart Light CT-SL4D + Controller CM-01







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