

# LIGHT OPERATING MODES

#### PERMANENT ILLUMINATION MODE

This light is designed for both the permanent and light-triggering mode. For permanent illumination bring the voltage of 12-24 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 12-24 V signal. The light is ON when a voltage signal 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.

#### **STROBE MODE**

Strobe function significantly multiplies the maximum intensity of the light. The strobing function saves energy, extends the light lifetime and in many cases improves the stability of the entire inspections system. Pin number 2 (white wire) of the M8 connector is used to activate the strobe function. The maximum strobe pulse time is 470 ms, while the light idle time must be at least 3 times longer. Please do not use a trigger mode during strobing function, do not bring a voltage to the pin number 4.

#### LIGHT SOURCE INTENSITY REGULATION

The light intensity might be regulated by an internal trimmer, PWM signal or an external controller. The maximum PWM frequency is ≤ 40 kHz.

# WAYS OF USE





#### **ORDERING CODE**

example of the ordering code



### CONFIGURATION

Model	Wavelength [nm]	Ø of Active Area [mm]		
DL1-120W	5700 K	120		
DL1-120IR	850	120		
DL1-120R	625	120		
DL1-120G	528	120		
DL1-120B	470	120		

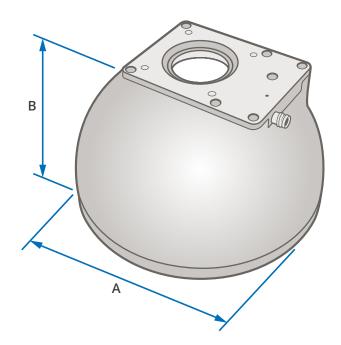
### ELECTRIC PARAMETERS

	Model	• DL1-120W	DL1-120IR	DL1-120R	• DL1-120G	• DL1-120B
Un	Voltage Span	19 - 28 V	19 - 28 V	19 - 28 V	19 - 28 V	19 - 28 V
U <sub>jm</sub>	Nominal Voltage	24 V DC	24 V DC	24 V DC	24 V DC	24 V DC
I <sub>jm</sub>	Nominal Current	600 mA	-			-
Р	Input	14.4 W				

# **DIMENSIONS & WEIGHT**







### **TECHNICAL DATA**

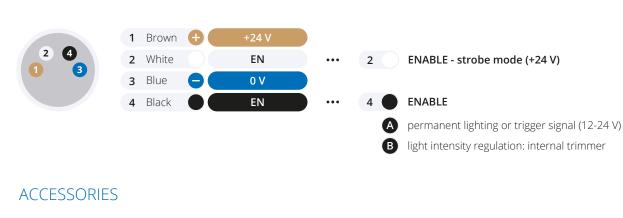
IP Category: IP50 Protection Category: III

Ambient Temperature: -20 - +40 °C

Isolation Resistance: 500 V

#### CONNECTOR M8-4PIN ASSIGNMENT

light connector front view



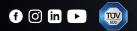
✓ Angular Cable M8-4PIN (5 m)

# OPTIONAL ACCESSORIES

- + Straight Cable M8-4PIN (5 m)
- + Controller Smart Light CT-SL4D + Controller CM-01



YOUR VISION PARTNER



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