

# DOME LIGHT

DL1-50

Ideal for indirect homogeneous illumination of curved surfaces or objects.



COMPACT DESIGN

INTEGRATED STROBE FUNCTION

HOMOGENOUS LIGHT FIELD

INTEGRATED INTERN LIGHT INTENSITY REGULATION

## 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 below.

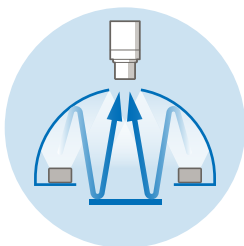
### STROBE MODE

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  $\leq 40$  kHz.

## WAYS OF USE



## ORDERING CODE

example of the ordering code

DL1 - 50

B

Dome Light

Ø of Active Area

Wavelength


## CONFIGURATION


Model	Wavelength [nm]	Ø of Active Area [mm]
DL1-50W	5700 K	50
DL1-50IR	850	50
DL1-50R	625	50
DL1-50G	528	50
DL1-50B	470	50

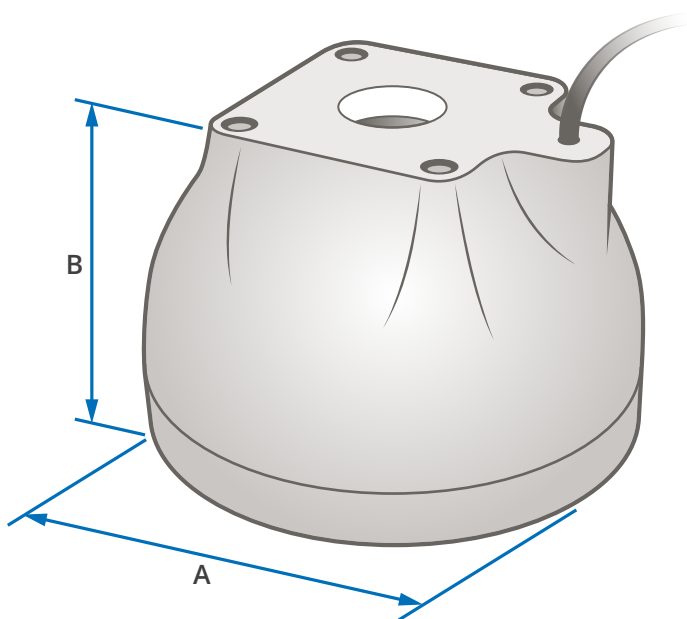
## ELECTRIC PARAMETERS

Model	DL1-50W	DL1-50IR	DL1-50R	DL1-50G	DL1-50B
$U_n$ Voltage Span	15 - 28 V	15 - 28 V	15 - 28 V	15 - 28 V	15 - 28 V
$U_{jm}$ Nominal Voltage	24 V DC	24 V DC	24 V DC	24 V DC	24 V DC
$I_{jm}$ Nominal Current	200 mA	200 mA	200 mA	200 mA	200 mA
P Input	4.8 W	4.8 W	4.8 W	4.8 W	4.8 W

## DIMENSIONS & WEIGHT

A	Outer Ø [mm]	96
B	Height [mm]	63
	Weight [g]	205

 For more details please see our 2D drawings.



## TECHNICAL DATA

IP Category: **IP50**

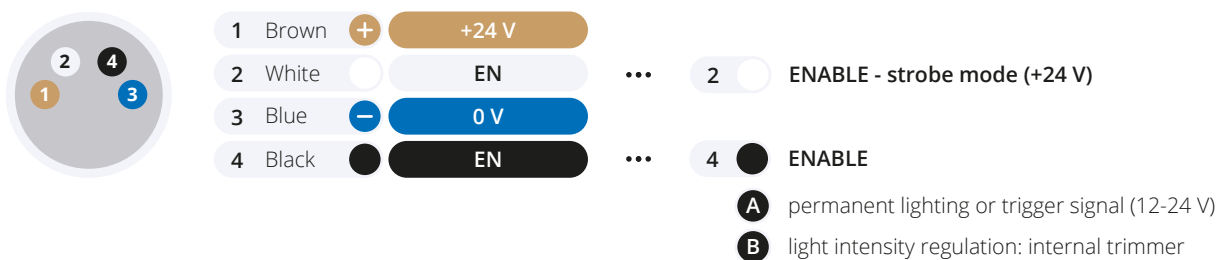
Protection Category: **III**

Ambient Temperature: **-20 - +40 °C**

Isolation Resistance: **500 V**

## CONNECTOR M8-4PIN ASSIGNMENT

light connector front view



## ACCESSORIES

✓ Straight Cable M8-4PIN (5 m)

## OPTIONAL ACCESSORIES

+ Angular Cable M8-4PIN (5 m)

+ Controller **Smart Light CT-SL4D**

+ Controller **CM-01**

 **SmartView**

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### COMPANY OFFICE

**Smart View s.r.o.**  
Nivy 313  
765 02 Otrokovice  
Česká republika

+420 601 575 797  
+420 602 457 497

[info@smartview.cz](mailto:info@smartview.cz)  
[www.smartview.cz](http://www.smartview.cz)

### OUR SALES PARTNERS SLOVAKIA

**MTS, spol. s r.o.**  
Krivá 53  
027 55 Krivá  
Slovensko

+421 43 5819 111

[mts@mts.sk](mailto:mts@mts.sk)