DATASHEET

Efficient Led Lighting

Convertible

Autostrobe feature

Flexible

Segmented light

High power

IP5X

effiSRING effiSDOME

Compact and flexible ring with a small compact dome

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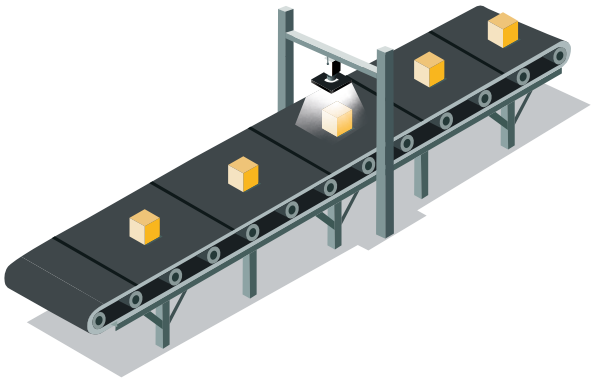
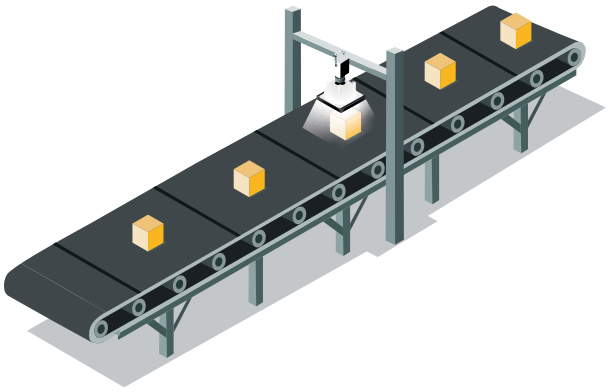
APPLICATIONS

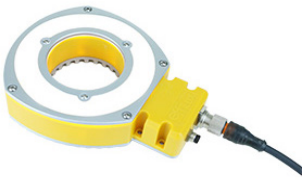




RELATED PRODUCT

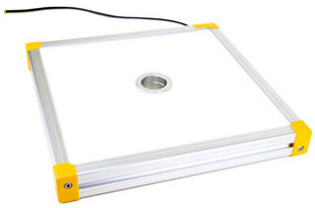
Refer to the datasheets of the products below for more details on those related products.

EFFI-RING



Adjustable beam power ring

EFFI-FD



Flat Dome Light

PART NUMBERING

Standard version

EFFI-SRING/SDOME - XXX - Z - Z - Z - Z - WW

Diameter of the LED ring (mm)	CH1	CH2	CH3	CH3	Windows*
100	**B** (Blue)	**B** (Blue)	**B** (Blue)	**B** (Blue)	**TR** Transparent
	G (Green)	**G** (Green)	**G** (Green)	**G** (Green)	**SD** Semi-diffuse
	R (Red)	**R** (Red)	**R** (Red)	**R** (Red)	**OP** Opaline
	IR (Infrared)	**IR** (Infrared)	**IR** (Infrared)	**IR** (Infrared)	
	W (White)	**W** (White)	**W** (White)	**W** (White)	

Notes: If not specified, default opaline window.

Available versions & options

Continuous version

EFFI-SRING/SDOME - XXX - Z - Z - Z - Z - WW - CW

- In this version, the EFFI-SRing / EFFI-SDome directly turns on at continuous intensity instead of the high power autostrobe.

Polarizer option

EFFI-SRING/SDOME - XXX - Z - Z - Z - Z - TR - POL2

- Using the Polarizer accessory, it is possible to eliminate glare from the workpiece making it easier to acquire a suitable image for the application with no hot spot.

Diffuse film + polarizer option

EFFI-SRING/SDOME - XXX - Z - Z - Z - Z - TR - DIF-POL2

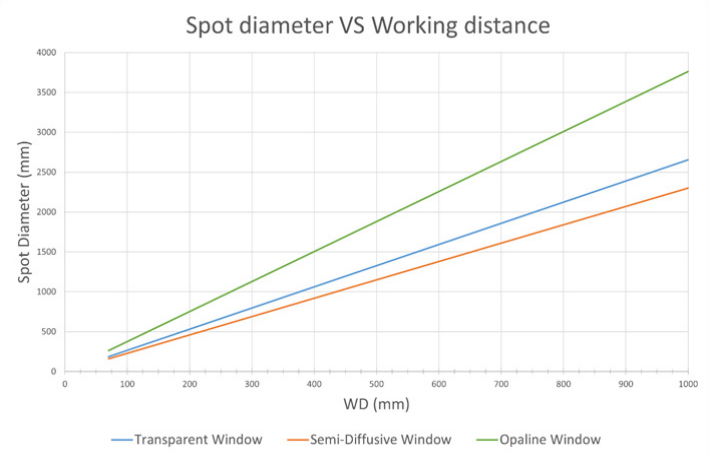
- Use the diffuse film under the polarizer to eliminate even more the hot spots.

TECHNICAL SPECIFICATIONS

effiSRING effiSDOME	
Illumination Mode	Strobe or continuous mode
Wavelengths	465nm, 525nm, 625nm, 850nm, White
Power Supply	24V DC
Connector(s)	**M12 - 8 pins**
Power Consumption per Channel	Depends of the wavelength
Weight	SRING: 300g SDOME: 750g
Thickness	SRING: 15mm SDOME: 69.9mm
Material	Device body: Aluminum; Windows: Acrylic
Fastener	Related to the dimensions
IP rating	IP5X
Operation environment	Temperature: 0°C to 40°C - Humidity: 20 to 85%RH (with no condensation) - Altitude: Up to 2000m
Storage environment	Temperature: -20° to 60°C - Humidity: 20 to 85%RH (with no condensation)
Informations	Overvoltage category I - Protective class III - Pollution degree 3
Regulations & Marking	CE - UKCA
Environmental Standards	RoHS Directives (2011/65/EU, 2015/863/EU and China RoHS) - REACH Regulation - WEEE Regulation
Country of Origin	France

OPTICAL SPECIFICATIONS

Illuminated spot diameter(1) vs working distance

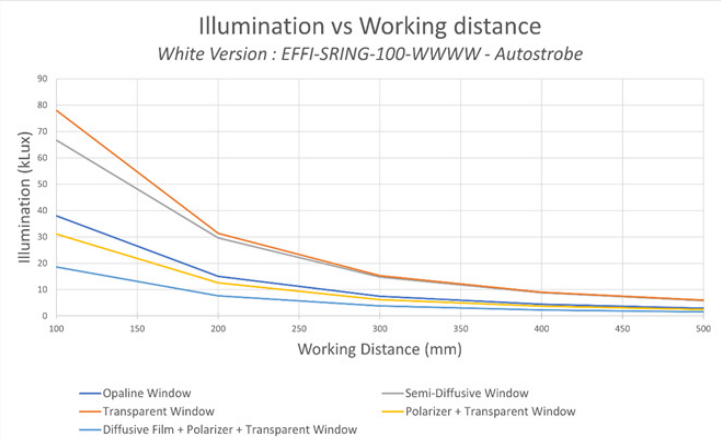


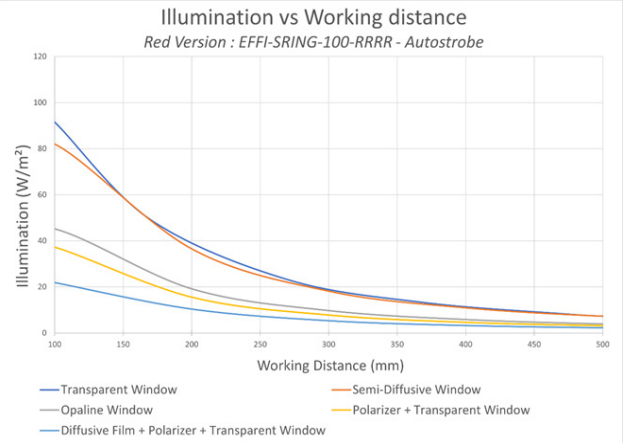
(1): From 50% to 100% of the peak value of illumination

Illumination vs working distance

Notes:

- Maximum illumination at the center of the spot
- Ratio between overdrive strobe mode and continuous mode : X4



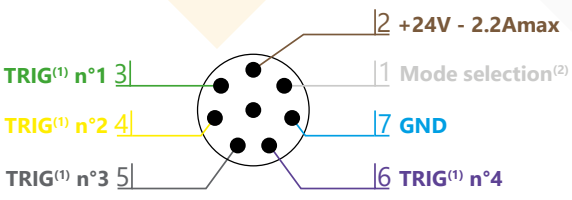


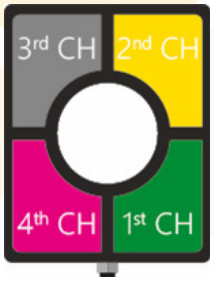
Color	INFRARED (850nm)	RED (625nm)	GREEN (525nm)	BLUE (465nm)
Power factor between the different wavelength	X2.3	X2	X1	X1.1

ELECTRONICAL SPECIFICATIONS

Contact Arrangement

M12 8pins - male connector





Notes:

- (1): max 24V
- (2): To select between PNP and NPN mode. If the pin 1 «Mode selection» is:
  Not connected: PNP mode → Light ON when V_{TRIG} > 2.5V
  Connected 24V: NPN mode→ Light ON when V_{TRIG} < 1V
- The EFFI-SRing / EFFI-SDome requires 24V DC input power.
- The trigger pin of each channel needs to be connected either to the 24V DC signal for Continuous mode or to a PNP Trigger signal for Overdrive strobe mode.

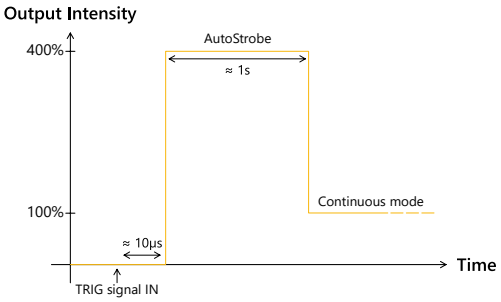
Power Comsumption

White version	Red, Green, Blue or Infrared Version
15W max per channel	10W max per channel

Signal Consumption

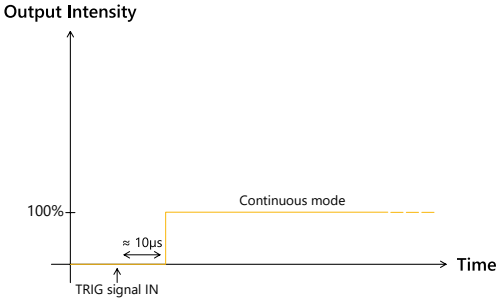
Mode selection consumption (pin1)	TRIG consumption (pins 3, 4, 5 and 6)
0.5mA max	0.1mA max on each pin

Autostrobe



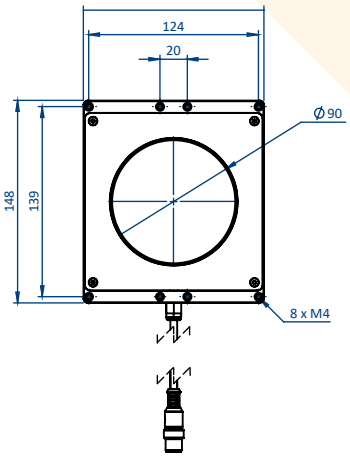
Please respect a duty cycle of 25% maximum. Duty cycle = (T_{ON} / (T_{ON} + T_{OFF}))

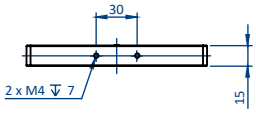
Option: Continuous Version

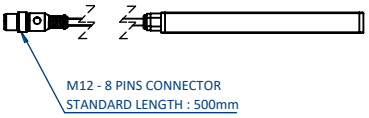


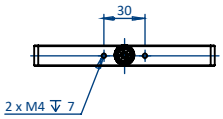
MECHANICAL SPECIFICATIONS

EFFI-SRING CONFIGURATION

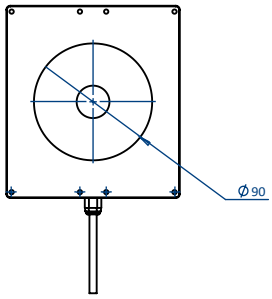


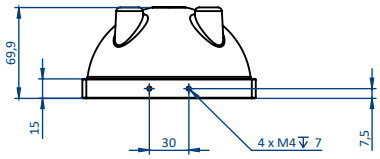


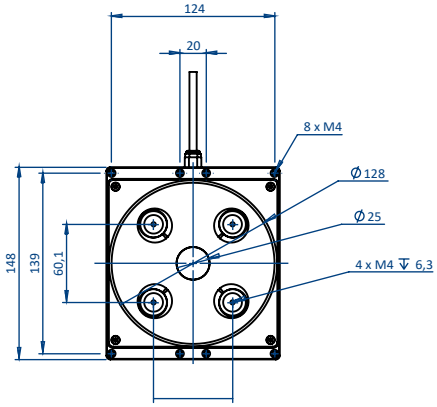




EFFI-SDOME CONFIGURATION







ACCESSORIES

Please refer to the specific documentation for additional information on the accessories of the EFFI-SRING-SDOME.

Extension cables

M12
2meters: EFFC-CAB-M12-FM-8-DD-L2
5meters: EFFC-CAB-M12-FM-8-DD-L5
10meters: EFFC-CAB-M12-FM-8-DD-L10

SWITCH 4 Channel

M12
2meters: EFFC-CAB-M12-FM-5-DD-L2
5meters: EFFC-CAB-M12-FM-5-DD-L5
10meters: EFFC-CAB-M12-FM-5-DD-L10

Camera mounting

EFFM-1-HORI-STEEL-V2
EFFM-1-VERT-STEEL-V2

CONTACT INFORMATION

Please refer to the specific documentation (datasheet, user manual and drawing) for complementary information. Contents of this document are based on information available as of April-2025 and may be changed without prior notice.

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