



Accurate edges detection and measurement

High images contrast

Homogeneous directed backlighting

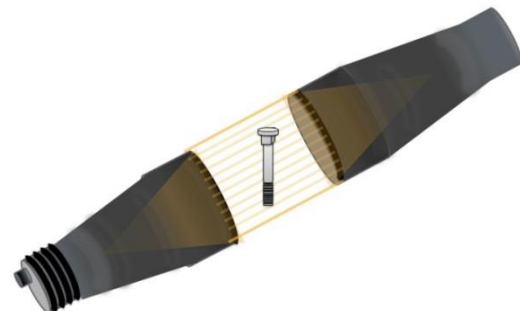
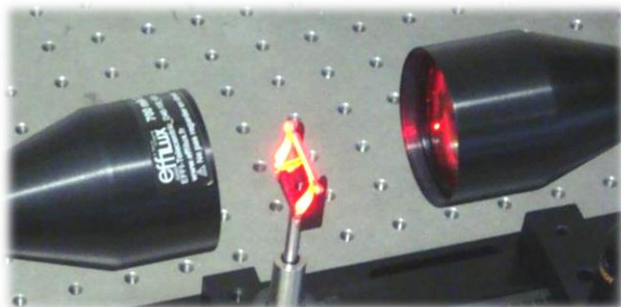
No defined working distance

<b>Electronics</b>	Connectors	M12 4 Contacts (with LED driver) OR M8 3 Contacts (direct current)
	Power supply	24V DC
	Illumination mode	Continuous or strobe mode
	Power consumption	5W
<b>Optics</b>	Wavelength	Various wavelengths (from UV to IR, white)
<b>Mechanics</b>	Weight	Depends on the version
	Width x length x height	Depends on the version
	Fastener	4X M4 holes on the side of the device
	Material	Device body : Aluminum alloy
<b>Environment</b>	Working temperature	0°C to 50°C
	IP code	IP54

## Applications



EFFI-Telecentric is a telecentric LED lighting (parallel light output) for the **measurement and edges detection** of objects with great accuracy. It is used either by backlighting or associated with a **coaxial system**.



Part Number



**Reference :**  
EFFI-TELE-**XX**-**YYY**

**XX** : Optical diameter (mm)

20 : EFFI-TELE-20 (Length : 123mm)

45 : EFFI-TELE-45 (Length : 144mm)

**YYY** : Wavelength (nm)

● UV 365 or 385 or 405

● Blue 465

● Green 525

● Red 625

● IR 850

○ White 000 (T°= 5500 K ± 500 K)

Option Polarizer



Without polarizer



With polarizer

If polarizer, add **-POL** in the part number

Part number : EFFI-TELECENTRIC-**XXX**-**YYY**-**POL**

Option Driving control

If to strobe the device, add **-STR** in the part number

**Caution** : Direct current = no protection

Part number : EFFI-TELECENTRIC-**XXX**-**YYY**-**STR**

### Electronical considerations



#### Contact arrangement

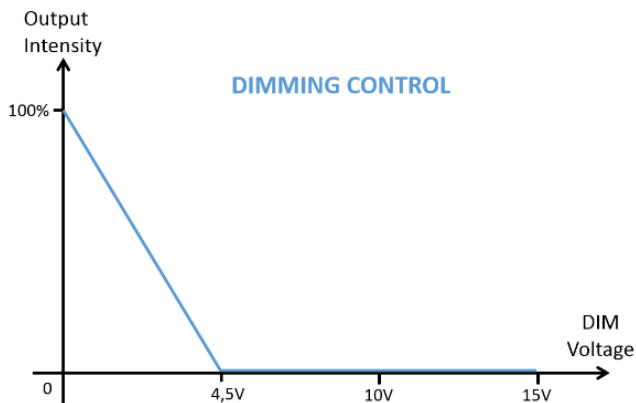
The EFFI-Tele is powered by a constant voltage 24V and the Power consumption = **5 W**.

Driven Version : M12 male connector			
Contact arrangement	Number	Color Contact	Designation
	1	Brown	+24V
	2	White	n.a.
	3	Blue	GND
	4	Black	DIM - max 15V Consumption = 2mA @15V

A current source can be used to power the EFFI-Tele in **STR version** (direct control). The Power consumption depends on the current injected in the LED. **⚠ In expert mode, the LED is wired directly to the M8 : no protection for the LED !**

⚠ M8 connector – direct control (expert mode) ⚠			
Contact arrangement	Pin number	Cable color	Designation
	1	Brown	n.a.
	2	Blue	+ Max 700mA dc
	3	Black	GND

#### Dimming control

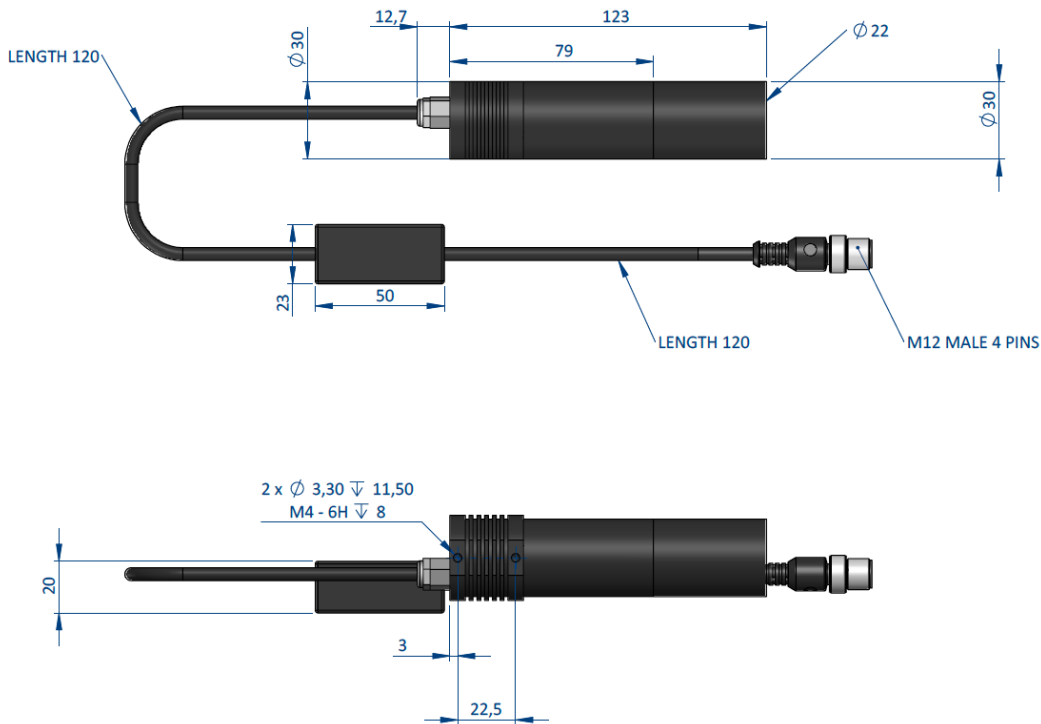


ON@[0-4.5V] and OFF@[4.5V-15V]

### Mechanical considerations (Dimensions in mm)



#### EFFI-TELE-20



#### EFFI-TELE-45

