



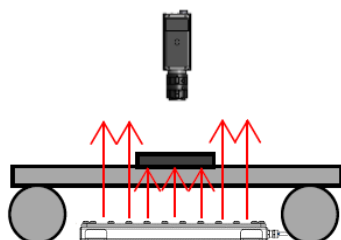
Dimming
Control



Intense and homogeneous (>90%) illumination
Available from 100mm x 100mm to 600mm x 600mm
Long lifetime and minimal maintenance

Electronics	Power supply	24V DC
	Illumination mode	Continuous with a DIM process [0-24V] – Analog voltage or Strobe mode
	Power consumption	Vary depends on the dimensions (refer to page 3)
	Cable	Bare cable (5 or 10 meters) - 5 contacts
Optics	Wavelength	Single wavelength (Blue, Green, Red, IR) or White
Mechanics	Weight	Vary depends on the dimensions
	Thickness	35.6mm
	Dimensions	From 100mm x 100mm to 600mm x 600mm
	Fastener	4 holes (Ø 4.4mm / 20mm length)
	Material	Device body: 316L Stainless Steel; Window: PMMA
Environment	Working temperature	0°C to 40°C
	IP code	IP68 & IP69K

Applications



Inspection:

Edge measurements,
absence/presence, size
control, and more.

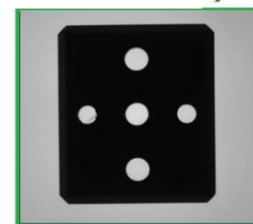
Robotics:

Object localization for pick
and place

Direct illumination ❌



EFFI-BL-IP69K illumination ✅



Part Number



Reference: EFFI-BL-IP69K-XXX-YYY-ZZZ-V-AA					
XXX: Optical width (mm) & YYY: Optical length (mm) (XXX ≤ YYY)					
From 100mm x 100mm up to 600mm x 600mm					
ZZZ: Color / Wavelength (nm) (other wavelengths available upon request)					
• Bue 465±10nm	• Green (upon request) 525±10nm	• Red 625±10nm	• IR 850±10nm	• IR (upon request) 940±10nm	○ White 000 (T°= 5700K ± 700K)
AA: Cable length (If not specified, 10 meters length by default) (Other lengths available upon request)					
-L5: 5 meters			-L10: 10 meters		
V: Vent					
The vent on our IP69K products equalizes pressures, minimize the condensation while blocking water.					
Option : Food processing					
For food processing environment, the nickel-plated brass gland can be replaced with stainless steel type and the cable with a certified food & beverage convenient one. For this option, please add -FOOD in the part number.					
Part number : EFFI-BL-IP69K-FOOD-XXX-YYY-ZZZ					

Electronical considerations



Contact arrangement

The EFFI-BL-IP69K is supplied with a 24V constant voltage. Please make sure that the flying leads output of the cable is in a sealed area. The AIC contact needs to be connected.

ÖLFLEX® ROBUST 210 (Câble 5X1: ref LAPP 0021919) - Weather, bio oil, detergent and hot water resistant for use in food & beverage industry and composting plants.

Core insulation made of modified PP / Outer sheath made of special TPE / Sheath colour: black

Conductor N°	EFFI-BL-IP69K
1	+24V
2	n.c.
3	GND
4	AIC: Analog Intensity Control for Dimming Control Consumption varies depending on size (from 0.3mA to 10mA) Max 24V DC – Analog Voltage
5	n.c.

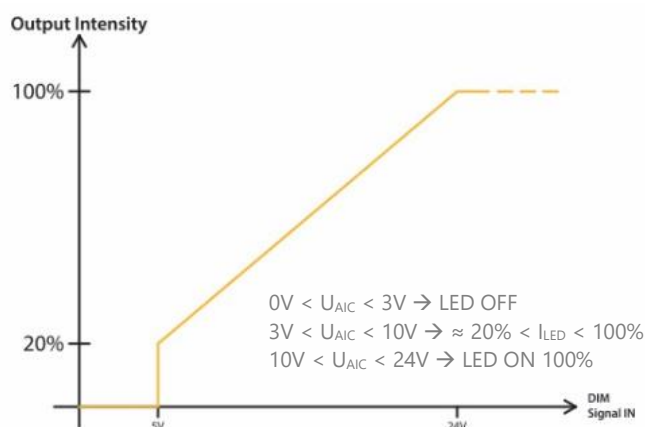
Power supply

Please refer to below electrical power consumption table for the power of each product according to different dimensions. EFFI-BL-IP69K is supplied with a ÖLFLEX® ROBUST 210 cable. For specific configurations, please contact EFFILUX for more information.

		Maximum electrical power consumption @24V (W) of standard white EFFI-BL-IP69K						
		Optical length (mm)						
		100	150	200	300	400	500	600
Optical width (mm)	100	5	8	8	13	15	18	23
	150		10	13	18	23	28	33
	200			15	23	28	35	43
	300				33	43	53	63
	400					55	70	85
	500						88	110
	600							125

Please note that for the FOOD option above 500mm x 600mm the EFFI-BL-IP69K must be supplied with 2 cables

Dimming control

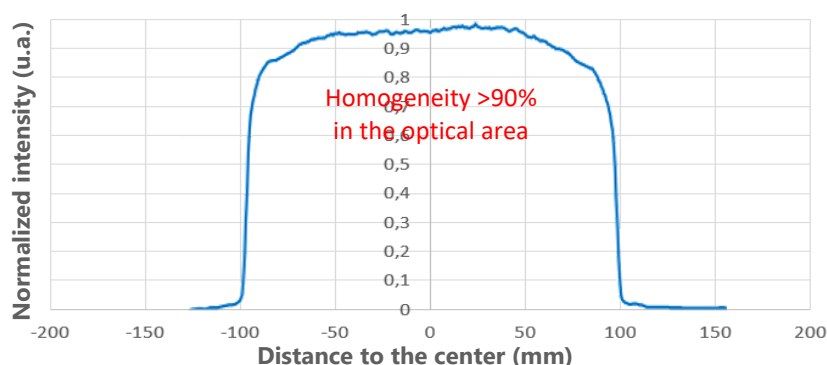


		DIM consumption @24V (mA) for standard white EFFI-BL-IP69K						
		Optical length (mm)						
		100	150	200	300	400	500	600
Optical width (mm)	100	0.3	0.9	0.6	0.9	1.2	1.5	1.8
	150		1.8	1.8	2.7	3.6	4.5	5.4
	200			1.2	1.8	2.4	3	3.6
	300				2.7	3.6	4.5	5.4
	400					4.8	6	7.2
	500						7.5	9.0
	600							10.8

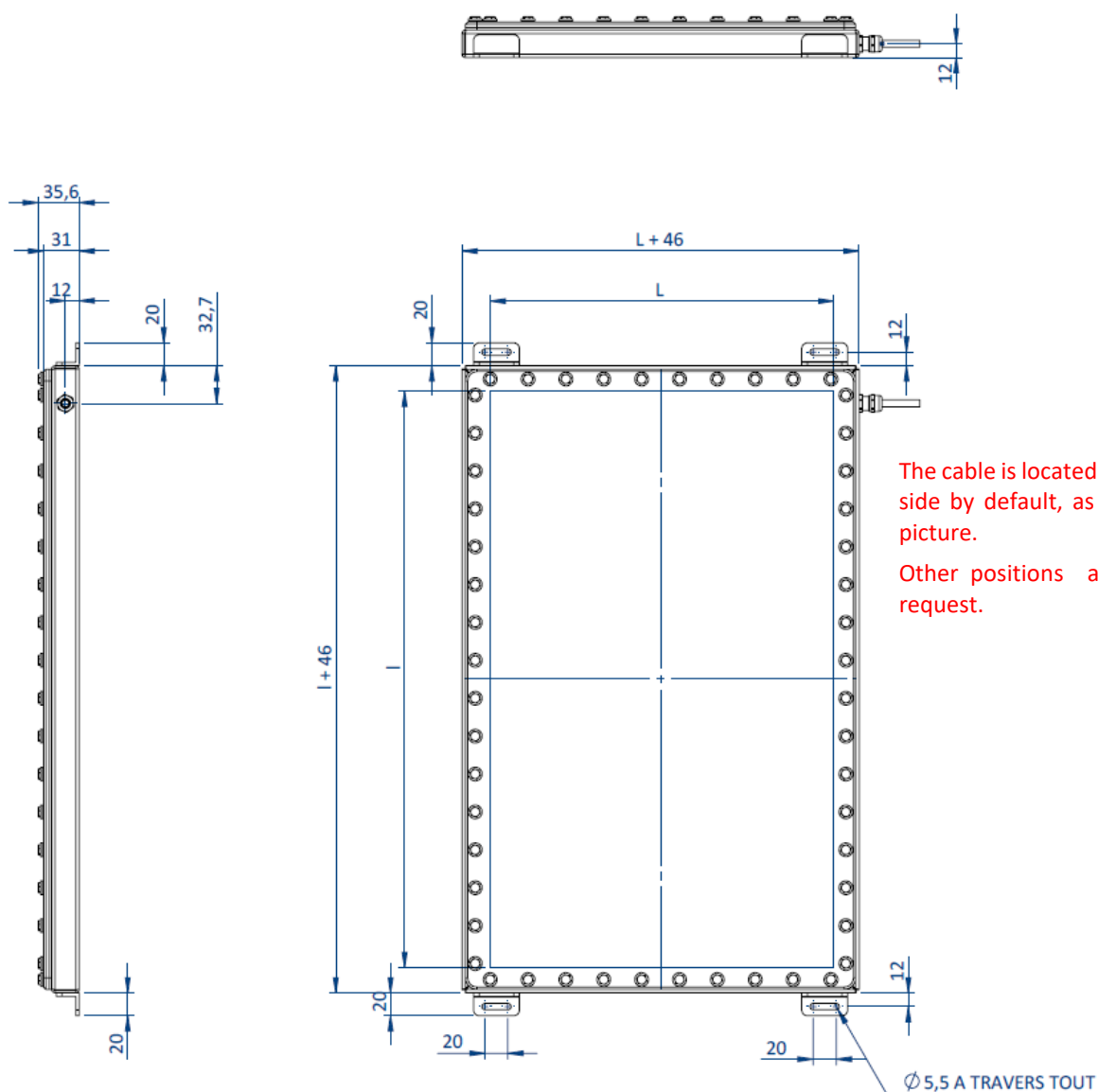
Optical considerations



Evaluation of the homogeneity
EFFI-BL-IP69K-200-200-000



Mechanical considerations (Dimensions in mm)



Mechanical length (L_{mecha}) = Optical length (L_{op}) + 46mm

Mechanical width (l_{mecha}) = Optical width (l_{op}) + 46mm

Example: For EFFI-BL-IP69K-200-200, L_{mecha} = 246 mm and l_{mecha} = 246mm