

Dimming
Control

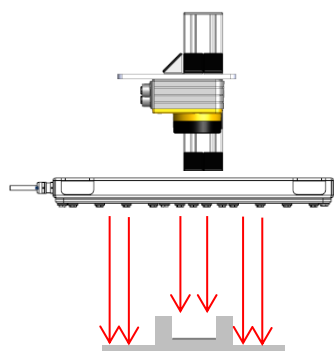


Diffuse illumination with high intensity
Available from 200mm x 200mm to 600mm x 600mm
Long lifetime and minimal maintenance

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 (<i>refer to page 3</i>)
	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 200mm x 200mm to 600mm x 600mm (<i>refer to page 3</i>)
	Fastener	4 holes (Ø 5.5mm / 20mm length)
	Material	Device body: 316L Stainless Steel; Window: PMMA
	Hole diameter	70mm
Environment	Working temperature	0°C to 40°C
	IP code	IP68 & IP69K



Applications



Direct illumination ❌



EFFI-FD illumination ✅



Part Number



<p>Reference: EFFI-FD-IP69K-XXX-YYY-ZZZ-V-AA</p>					
<p>XXX: Optical width (mm) & YYY: Optical length (mm) (XXX ≤ YYY)</p>					
<p>Dimensions are available from 200mm x 200mm up to 600mm x 600mm</p>					
<p>ZZZ: Color / Wavelength (nm) (other wavelengths available upon request)</p>					
<p>● Blue 465±10nm</p>	<p>● Green (on request) 525±10nm</p>	<p>● Red 625±10nm</p>	<p>● IR 850±10nm</p>	<p>● IR (on request) 940±10nm</p>	<p>○ White 000 (T°= 5700K±700K)</p>
<p>AA: Cable length (If not specified, 10 meters length by default) (Other lengths available upon request)</p>					
<p>-L5: 5 meters</p>			<p>-L10: 10 meters</p>		
<p>V: Vent</p>					
<p>The vent on our IP69K products equalizes pressures, minimize the condensation while blocking water.</p>					
<p>Option : Food processing</p>					
<p>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. Please note that the maximum cable length for this option is 10 meter.</p>					
<p>Part number : EFFI-FD-IP69K-FOOD-XXX-YYY-ZZZ</p>					

Electronical considerations



Contact arrangement

The EFFI-FD-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.

Weather, bio oil, detergent and hot water resistant cable	
Core insulation made of modified PP / Outer sheath made of special TPE / Sheath colour: black	
Conductor N°	EFFI-FD-IP69K
1	+24V
2	n.c.
3	GND
4	<p>AIC: Analog Intensity Control for Dimming Control Consumption varies depending on size (from 0.3mA to 10mA) Max 24V DC – Analog Voltage</p>
5	n.c.

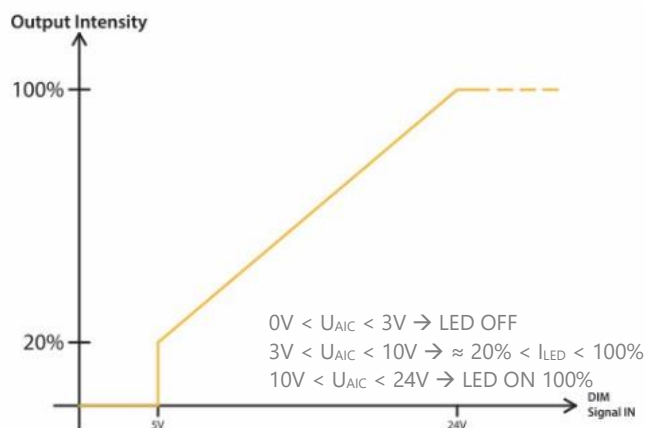
Power supply

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

		Maximum electrical power consumption @24V (W) for standard white EFFI-FD-IP69K				
		Optical length (mm)				
		200	300	400	500	600
Optical width (mm)	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 500mm the EFFI-FD-IP69K must be supplied with 2 cables

Dimming control



		DIM consumption @24V (mA) for standard white EFFI-FD-IP69K				
		Optical length (mm)				
		200	300	400	500	600
Optical width (mm)	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

Mechanical considerations (Dimensions in mm)



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

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

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

The cable is located on the longer side by default, as shown in the picture.

Other positions available upon request.

