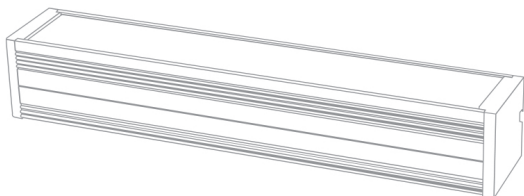


LINESCAN HOMOGENEOUS FLAT LIGHT

ELFB SERIES



The ELFB Series is a line light with **high uniformity**, ideal for **linescan** applications where high uniformity is key.

Whether it is used as a front light or back light, the ELFB Series is flexible in its use. As such, it can be used for applications such as paper inspection, but also for inspection for foreign materials on clear film.

The ELFB Series is designed with an **integrated dimming controller**, allowing for easy intensity adjustments.

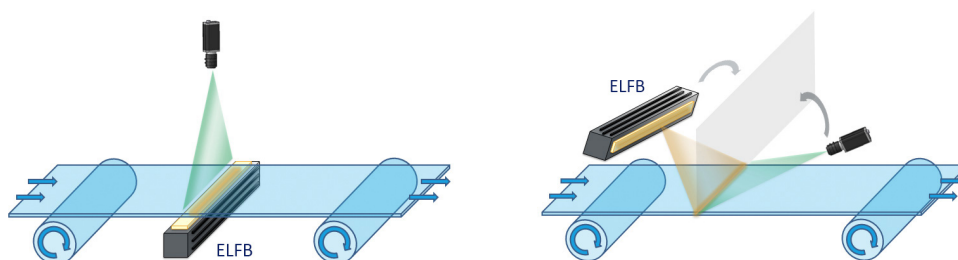
MAIN FEATURES

- Very intense and uniform linescan LED light illumination
- Anti-reflection coating on the emitting surface
- Standard connections and fasteners
- Long life time and minimal maintenance



Connector	M12 - 4 contacts or M12P - 4 contacts (depending on the length)
Power supply	24VDC
Illumination mode	Continuous with a DIM process [0-24V] - Analog voltage or Strobe mode
Electronic mode	Dimming control [0-24V]
Available wavelength	White, Blue, Green, Red, IR
Available sizes	From 100mm to 1600mm
Width x height	51mm x 49mm
Fastener	One rail for M4 T-nut on the back and one rail for M6 T-nut on the side
Material	Device body: Aluminum alloy & ABS; Window: Acrylic
Working temperature	0° to 50° C
IP code	IP50

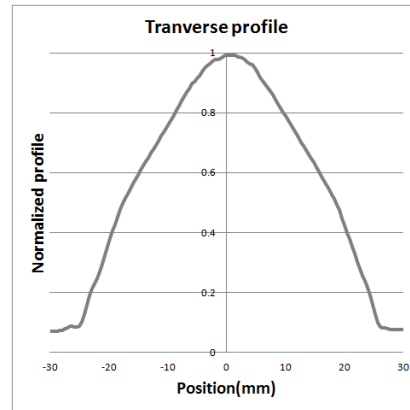
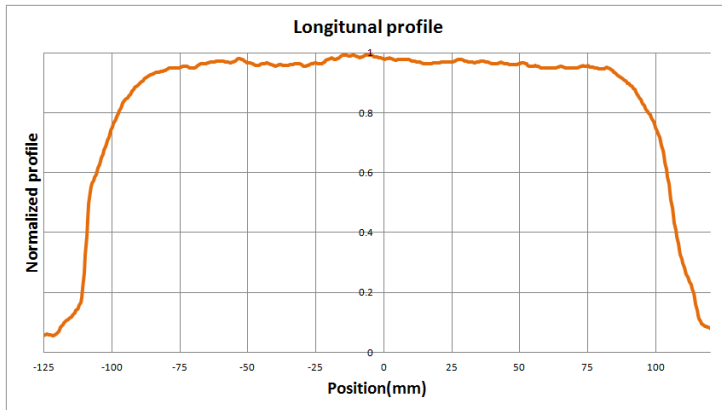
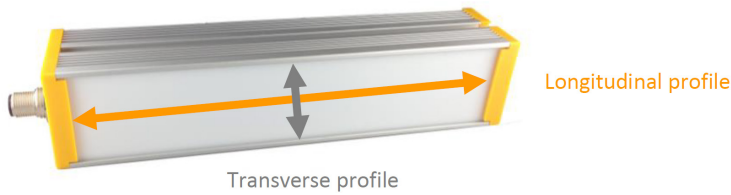
APPLICATIONS



Linescan Inspection

OPTICAL CONSIDERATIONS

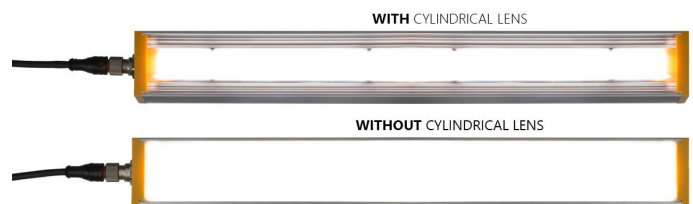
Homogeneity



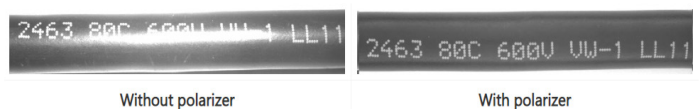
Longitudinal profil for the ELFB-200SW.

Optical options

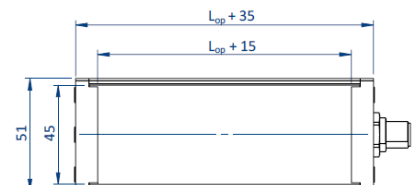
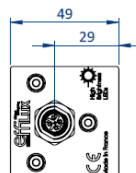
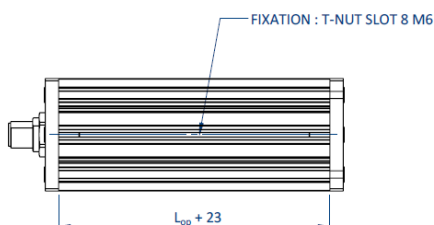
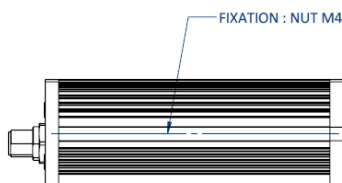
The ELFB Series offer a cylindrical lens as an option, focusing the irradiation and increasing the intensity with a factor of 20.



With the polarizer for the ELFB Series, it is possible to eliminate glare from your workpiece, making it easier to acquire a suitable image for your application.



DIMENSIONS (MM)

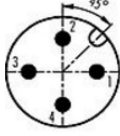
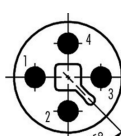




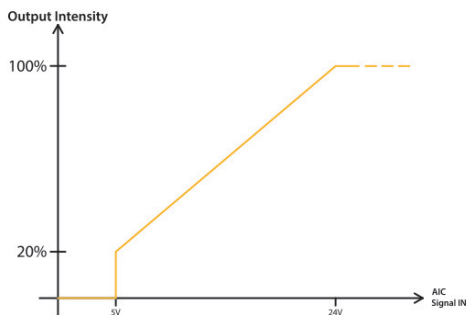
ELECTRONICAL SPECIFICATIONS

Contact arrangement

When using the ELFB Series, please use a 24VDC power supply.
Please note that the AIC contact needs to be connected when using the ELFB Series.

Contact arrangement	Number	Color Contact	Designation
  M12 male connector M12 Power male connector <i>TYPE OF CONNECTOR DEPENDS ON THE SIZE OF THE ELFB</i>	1	Brown	+24V
	2	White	n.a.
	3	Blue	GND
	4	Black	AIC: Analog Intensity Control for Dimming Control Consumption : 0.5mA every 500mm length Suggested dimming range: min 5V - max 24V

Dimming control feature



PRODUCT LINE UP

The power consumption is given for white products, and may differ for other wavelengths. The power consumption will be specified on the products.

Series	Part Number	Color	Wavelength / Color temperature	Max Power Consumption	Connector	Weight	Optical Length (L _{op})
ELFB	ELFB-100SW	White	5500 K ± 500 K	5W	M12	400g	100mm
ELFB	ELFB-100BL	Blue	465nm				
ELFB	ELFB-100GR	Green	525nm				
ELFB	ELFB-100RD	Red	625nm				
ELFB	ELFB-100IR	Infrared	850nm				
ELFB	ELFB-200SW	White	5500 K ± 500 K	10W	M12	700g	200mm
ELFB	ELFB-200BL	Blue	465nm				
ELFB	ELFB-200GR	Green	525nm				
ELFB	ELFB-200RD	Red	625nm				
ELFB	ELFB-200IR	Infrared	850nm				
ELFB	ELFB-300SW	White	5500 K ± 500 K	15W	M12	1000g	300mm
ELFB	ELFB-300BL	Blue	465nm				
ELFB	ELFB-300GR	Green	525nm				
ELFB	ELFB-300RD	Red	625nm				
ELFB	ELFB-300IR	Infrared	850nm				
ELFB	ELFB-400SW	White	5500 K ± 500 K	20W	M12	1300g	400mm
ELFB	ELFB-400BL	Blue	465nm				
ELFB	ELFB-400GR	Green	525nm				
ELFB	ELFB-400RD	Red	625nm				
ELFB	ELFB-400IR	Infrared	850nm				
ELFB	ELFB-500SW	White	5500 K ± 500 K	25W	M12	1600g	500mm
ELFB	ELFB-500BL	Blue	465nm				
ELFB	ELFB-500GR	Green	525nm				
ELFB	ELFB-500RD	Red	625nm				
ELFB	ELFB-500IR	Infrared	850nm				

Series	Part Number	Color	Wavelength / Color temperature	Max Power Consumption	Connector	Weight	Optical Length (L _{op})
ELFB	ELFB-600SW	White	5500 K ± 500 K	30W	M12	1900g	600mm
ELFB	ELFB-600BL	Blue	465nm				
ELFB	ELFB-600GR	Green	525nm				
ELFB	ELFB-600RD	Red	625nm				
ELFB	ELFB-600IR	Infrared	850nm				
ELFB	ELFB-700SW	White	5500 K ± 500 K	35W	M12	2200g	700mm
ELFB	ELFB-700BL	Blue	465nm				
ELFB	ELFB-700GR	Green	525nm				
ELFB	ELFB-700RD	Red	625nm				
ELFB	ELFB-700IR	Infrared	850nm				
ELFB	ELFB-800SW	White	5500 K ± 500 K	40W	M12	2500g	800mm
ELFB	ELFB-800BL	Blue	465nm				
ELFB	ELFB-800GR	Green	525nm				
ELFB	ELFB-800RD	Red	625nm				
ELFB	ELFB-800IR	Infrared	850nm				
ELFB	ELFB-900SW	White	5500 K ± 500 K	45W	M12	2800g	900mm
ELFB	ELFB-900BL	Blue	465nm				
ELFB	ELFB-900GR	Green	525nm				
ELFB	ELFB-900RD	Red	625nm				
ELFB	ELFB-900IR	Infrared	850nm				
ELFB	ELFB-1000SW	White	5500 K ± 500 K	50W	M12	3100g	1000mm
ELFB	ELFB-1000BL	Blue	465nm				
ELFB	ELFB-1000GR	Green	525nm				
ELFB	ELFB-1000RD	Red	625nm				
ELFB	ELFB-1000IR	Infrared	850nm				
ELFB	ELFB-1100SW	White	5500 K ± 500 K	55W	M12	3400g	1100mm
ELFB	ELFB-1100BL	Blue	465nm				
ELFB	ELFB-1100GR	Green	525nm				
ELFB	ELFB-1100RD	Red	625nm				
ELFB	ELFB-1100IR	Infrared	850nm				
ELFB	ELFB-1200SW	White	5500 K ± 500 K	60W	M12	3700g	1200mm
ELFB	ELFB-1200BL	Blue	465nm				
ELFB	ELFB-1200GR	Green	525nm				
ELFB	ELFB-1200RD	Red	625nm				
ELFB	ELFB-1200IR	Infrared	850nm				
ELFB	ELFB-1300SW	White	5500 K ± 500 K	65W	M12	4000g	1300mm
ELFB	ELFB-1300BL	Blue	465nm				
ELFB	ELFB-1300GR	Green	525nm				
ELFB	ELFB-1300RD	Red	625nm				
ELFB	ELFB-1300IR	Infrared	850nm				
ELFB	ELFB-1400SW	White	5500 K ± 500 K	70W	M12	4300g	1400mm
ELFB	ELFB-1400BL	Blue	465nm				
ELFB	ELFB-1400GR	Green	525nm				
ELFB	ELFB-1400RD	Red	625nm				
ELFB	ELFB-1400IR	Infrared	850nm				
ELFB	ELFB-1500SW	White	5500 K ± 500 K	75W	M12	4600g	1500mm
ELFB	ELFB-1500BL	Blue	465nm				
ELFB	ELFB-1500GR	Green	525nm				
ELFB	ELFB-1500RD	Red	625nm				
ELFB	ELFB-1500IR	Infrared	850nm				
ELFB	ELFB-1600SW	White	5500 K ± 500 K	80W	M12P	4900g	1600mm
ELFB	ELFB-1600BL	Blue	465nm				
ELFB	ELFB-1600GR	Green	525nm				
ELFB	ELFB-1600RD	Red	625nm				
ELFB	ELFB-1600IR	Infrared	850nm				

OPTICAL ACCESSORIES

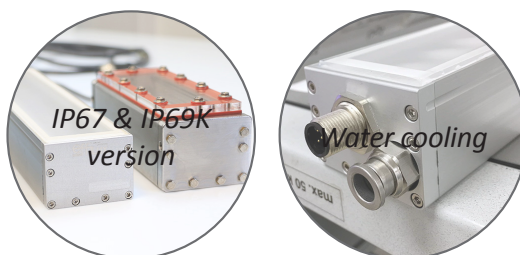
Polarizer	
Part Number	Applicable LED Unit
PL-ELB-100	ELB-100 / ELFB-100
PL-ELB-200	ELB-200 / ELB-L2-200 / ELFB-200
PL-ELB-300	ELB-300 / ELFB-300
PL-ELB-400	ELB-400 / ELB-L2-400 / ELFB-400
PL-ELB-500	ELB-500 / ELFB-500
PL-ELB-600	ELB-600 / ELB-L2-600 / ELFB-600
PL-ELB-700	ELB-700 / ELFB-700
PL-ELB-800	ELB-800 / ELB-L2-800 / ELFB-800
PL-ELB-900	ELB-900 / ELFB-900
PL-ELB-1000	ELB-1000 / ELB-L2-1000 / ELFB-1000
PL-ELB-1100	ELB-1100 / ELFB-1100
PL-ELB-1200	ELB-1200 / ELB-L2-1200 / ELFB-1200
PL-ELB-1300	ELB-1300 / ELFB-1300
PL-ELB-1400	ELB-1400 / ELB-L2-1400 / ELFB-1400
PL-ELB-1500	ELB-1500 / ELFB-1500
PL-ELB-1600	ELB-1600 / ELB-L2-1600 / ELFB-1600

For cables, please refer to the datasheet of the ECB cables series.

For fasteners and camera supports, please refer to the datasheet of the BK fasteners series.

CUSTOM - ON REQUEST

Options available on request



Example of custom



EU DIRECTIVE



In accordance with EU machinery directive, EMC directive, and low voltage directive, machines and electronic devices not marked with the CE logo are subject to distribution restrictions within the EU. All EL Series LED illumination products excluding power supply conform to corresponding EN regulations. These products will maintain the EU mandate compatibility of our customers' machinery and electronic devices.

RoHS DIRECTIVE

All products from the EL Series comply with the RoHS Directive.