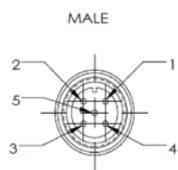
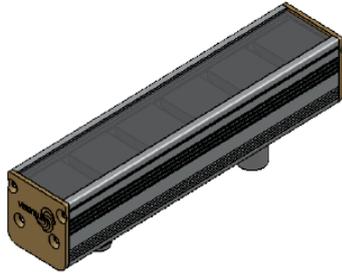
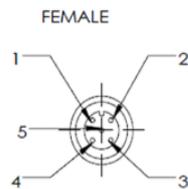


## HBL3-00-160-1-W-24V

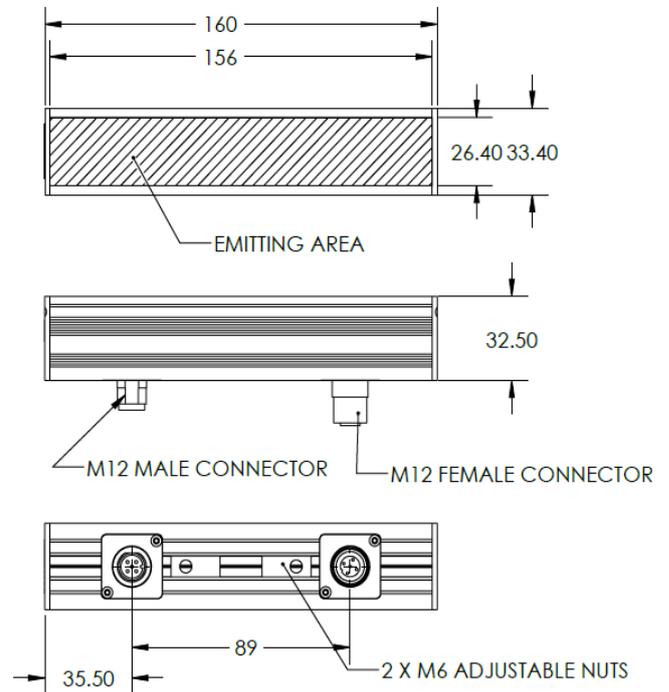
### Lighting Dimension



PIN 1	BROWN	24V
PIN 2	WHITE	-
PIN 3	BLUE	GND
PIN 4	BLACK	-
PIN 5	GRAY	-



PIN 1	BROWN	24V
PIN 2	WHITE	-
PIN 3	BLUE	GND
PIN 4	BLACK	-
PIN 5	GRAY	-



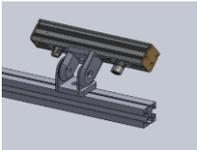
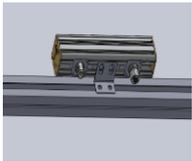
Mechanical Information	
Casing Material	Aluminium
Storage & Operating Temperature Range	Temp 0-60°C, Humidity 20-85%
Weight	270 g
Length / Outer Diameter	160 mm
Width / Inner Diameter	33.4 mm
Thickness / Height	32.5 mm



## HBL3-00-160-1-W-24V

Optical Information							
Part Number	HBL3-00-160-1-W-24V						
LED Colour	WHITE						
Wavelength	(nm)	*Refer to the Chromaticity Table below					
Intensity ( ±15%)	(Lux)	5481					3402
Working Distance	(mm)	300					400
Illumination (number of rows)		1					
Illumination Active Area							
Active Length / Outer Diameter	(mm)	156					
Active Width / Inner Diameter	(mm)	26.4					
Emission Angle	(deg.)	0					
Eye Safety Class ( IEC62471)		EXEMPT					
<b>*CHROMATICITY TABLE</b>		X	0.296	0.287	0.307	0.311	
		Y	0.276	0.295	0.315	0.294	
		X	0.311	0.307	0.33	0.33	
		Y	0.294	0.315	0.339	0.318	
Electrical Information							
Lighting Supply Voltage (constant voltage mode)		24V ± 2%					
Continuous Current	(mA)	160					
Power Consumption	(W)	3.84					
Lighting Casing Temperature, Operating after 60 minutes	°C	53.6					
Strobe Mode Specification							
Pulse Operation		YES					
Max. Lighting Supply Voltage (constant voltage power supply)	(V)	Pulsing at 24VDC to 48VDC, 0-10% Duty Cycle Recommended at 36VDC					
Pulse Current, (Max. 10 msec) (constant current power supply)	(mA)	480					
Max. Trigger Pulse Duration	(msec)	10					
Duty Cycle		0-10%					
Additional Information							
Additional Cooling Method		Attached to machine part for better heat dissipation					
Intensity Controller Selection		SD/SDA-Series					
CE Conformity		YES					
RoHS Compliance		YES					
Connection							
Connector Type (default)		M12 5PIN MALE CONNECTOR			M12 5 PIN FEMALE CONNECTOR		
Cable Length (out from lighting)	(mm)	-					
Pin Configuration		Pin	Colour	Signal	Pin	Colour	Signal
		1	Brown	24V	1	Brown	24V
		2	White	-	2	White	-
		3	Blue	GND	3	Blue	GND
		4	Black	-	4	Black	-
		5	Gray	-	5	Gray	-
							
Extension Cable							
Connector Type (default)		M12 5 PIN CONNECTOR (FEMALE)					
Part Number		EXT-FL-M12F-3M-24V					
Cable Length (out from female connector)	(mm)	3000					
Extension Cable (connect to M12 5 Pin Male Connector from lighting)							
Application							
Illumination Type		High Luminosity Line Bar Light					
Application Use		Robotic picking, inspection for parts identification & missing parts, visual inspection for large workpiece, measuring stamp dimensions for press products					

## HBL3-00-160-1-W-24V

Advantages		
Cascade Illuminator		
Easy Mounting	Join Bracket (Angle Mount) 	L-shaped Plate (Horizontal Mount) 

### Uniform Graph (Relative Irradiation Strength) - Representative pattern

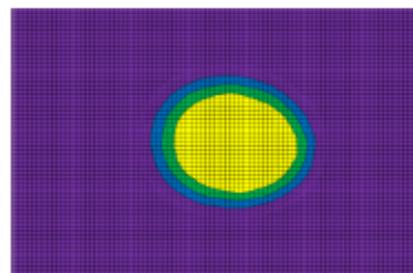
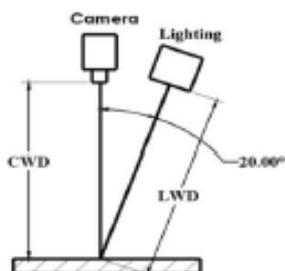
LENS FOCAL LENGTH,  $F = 6 \text{ mm}$

CWD = 400 mm

LWD = 400 mm

Lighting Angle =  $20^\circ$

COLOUR	TOLERANCE	L X W
Yellow	$\pm 15 \%$	130 X 120
Green	$\pm 20 \%$	135 X 135
Blue	$\pm 25 \%$	175 X 160
Purple	$\pm 30 \%$	430 X 320



\* Each individual box is 5 X 5 mm.

\*Disclaimer : The graph portrayed is for reference only and does not in any way guarantee the quality of this product.