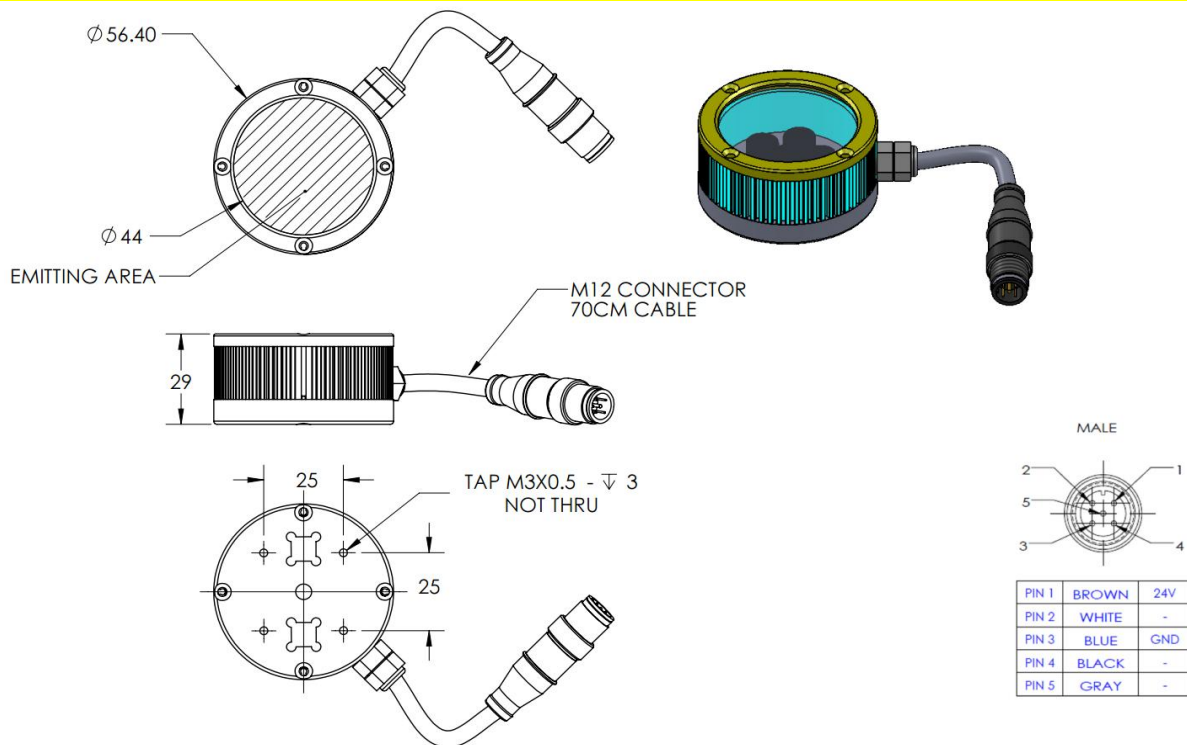


HSBT2-00-060-X-B-24V

Lighting Dimension



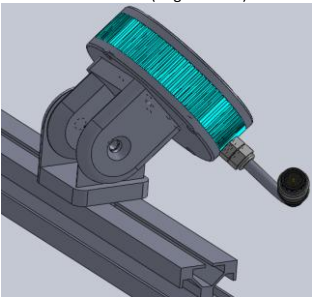
Mechanical Information	
Casing Material	Aluminium
Storage & Operating Temperature Range	Temp 0-60°C, Humidity 20-85%
Weight	145 g
Length / Outer Diameter	56.40 mm
Width / Inner Diameter	-
Thickness / Height	29 mm



HSBT2-00-060-X-B-24V

Optical Information				
Part Number		HSBT2-00-060-X-B-24V		
LED Colour		BLUE		
Wavelength	(nm)	470		
Intensity (±15%)	(Lux)	2093	1773	1413
Working Distance	(mm)	200	220	250
Illumination (number of rows)		X		
Illumination Active Area				
Active Diameter	(mm)	44		
Emission Angle	(deg.)	0		
Eye Safety Class (IEC62471)		II		
Electrical Information				
Lighting Supply Voltage (constant voltage mode)		24V ± 2%		
Continuous Current	(mA)	150		
Power Consumption	(W)	3.60		
Lighting Casing Temperature, Operating after 60 minutes	°C	53.2		
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)	450		
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 5 PIN CONNECTOR (MALE)		
Cable Length (out from lighting)	(mm)	700		
Pin Configuration		Pin	Signal	Cable Colour
		1	24V	BROWN
		2	-	WHITE
		3	GND	BLUE
		4	-	BLACK
		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		Spot Light		
Application Use		Inspecting alignment of LCDs or circuit boards, light source for telecentric lens, dimension measuring and spot illumination, wafer inspection		

HSBT2-00-060-X-B-24V

Advantages	
Easy Mounting	<p>Join Bracket (Angle Mount)</p> 

Uniform Graph (Relative Irradiation Strength) - Representative pattern

LENS FOCAL LENGTH, F = 6 mm

CWD = 400 mm

LWD = 400 mm

Lighting Angle = 20°

COLOUR	TOLERANCE	L X W
Yellow	± 15 %	150 X 160
Green	± 20 %	177 X 190
Blue	± 25 %	205 X 220
Purple	± 30 %	430 X 320

The diagram illustrates the experimental setup. A camera is positioned vertically at a distance CWD (400 mm) from the target. A lighting source is positioned at a distance LWD (400 mm) from the target, at a 20.00° angle. The target is a grid of 5x5 mm boxes.

The figure shows a uniform graph with a grid of 5x5 mm boxes. The pattern consists of concentric rings of color: a central yellow circle, followed by a green ring, a blue ring, and a purple outer ring. The background is a grid of 5x5 mm boxes.

* 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.*