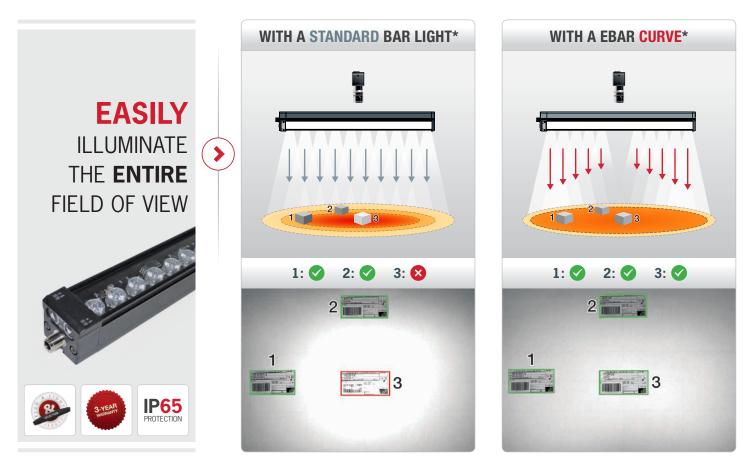
WIN THE BATTLE OF BRIGHTNESS VS HOMOGENEITY !

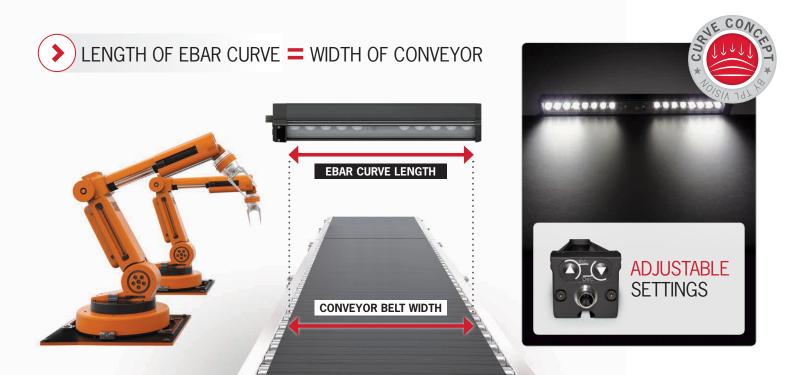


EBAR Curve

•••••



* Homogeneity perceived by the camera.



The EBAR Curve is a high power LED solution. It has been developed to ease the integration process and helps you achieve the best balance between brightness and homogeneity. The curve effect works by reducing the saturated light spot in the centre of a cameras Field of View (FoV). By reducing this spot, uniform illumination across the FoV can be achieved. This new development in machine vision illumination allows for smaller barlights to be used, giving you savings spatially and economically. The EBAR Curve has manually adjustable Curve settings for increasing and decreasing the brightness of the centre LEDs to fine tune your results. We have given recommendations to follow for the working distance and the FoV that will be generated. The product will increase productivity and efficiency through time savings, high quality results and an increased FoV per barlight.

The selection process is simple, find your required FoV and follow the part configurator to select the best solution for you.

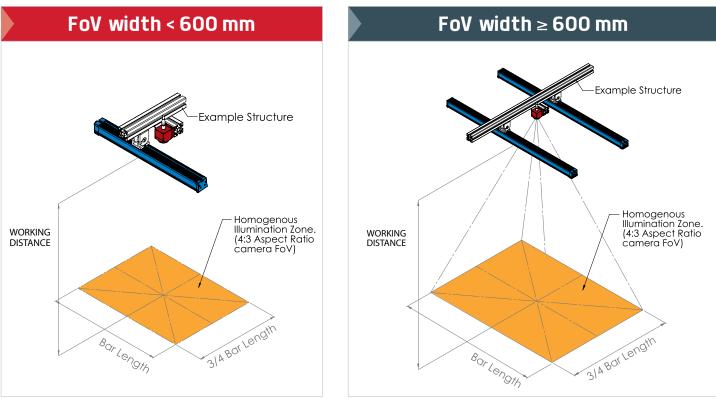
APPLICATION EXAMPLES:

CODE READING
PICK & PLACE
QUALITY INSPECTION

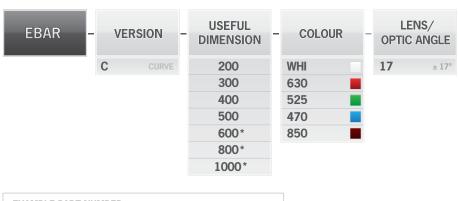
HOW TO SELECT THE CORRECT SIZE:

FOV WIDTH = EBAR LENGTH
 FOV DEPTH = EBAR LENGTH x 0.75

Recommended setup according to FOV dimensions:



EBAR CURVE PART NUMBER CONFIGURATOR:



EXAMPLE PART NUMBER:

EBAR Curve 300 mm white LED $\pm 17^{\circ}$ lenses \Rightarrow EBAR-C-300-WHI-17 EBAR Curve 500 mm red LED $\pm 17^{\circ}$ lenses \Rightarrow EBAR-C-500-630-17 EBAR Curve 800 mm blue LED $\pm 17^{\circ}$ lenses \Rightarrow EBAR-C-800-470-17

* 600, 800 and 1000 mm Bars require 2 bars to fill the full FoV.

MOUNTING DEVICES:



DIFFUSORS:

DIF	FUSER	-	BAR	-	DIMENSION		
DT	TRANSPARENT				200		
DO	OPAQUE				300		
DS	SATIN				400		
POL	POLARIZER*				500		
* EXCEPT FOR IR 850					600		
			800				
EXAMPLE PART NUMBER:					1000		
Transparent diffuser for EBAR Curve 300 mm: → DT-BAR-300							
Satin diffuser for EBAR Curve 600 mm: → DS-BAR-600							



CABLES:

M12 female 5 pins cable							
60							
K							
	۲						
2 meters	Ref: C-M12-5P-2M						
5 meters	Ref: C-M12-5P-5M						
10 meters	Ref: C-M12-5P-10M						

PROTECTION:



LIGHTING METHODS



TECHNICAL SPECIFICATIONS:

	200	300	400	500	600	800	1000			
	Electronics									
Power supply	24 VDC ±10%									
Max. Consumption (W)	11	16	22	26.5	27	41	54			
Modes	CW and Strobe (Trigger PNP or NPN)									
Overdrive	No									
Maximum rising time	15 µs									
Maximum falling time	15 µs									
Wiring	1x male M12 – 5 poles									
	Colours									
Colours	White ; 470 ; 525 ; 630 ; 850									
		Mech	anics							
Useful length (mm)	200	300	400	500	600	800	1000			
Overall length (mm)	233	333	433	533	633	833	1033			
Width x Height (mm)	47.6 x 45									
Body materials	Aluminum									
Window	Transparent protective window									
Fixing	2 M4 nuts to insert in the groove located on the back of the light or directly use M4 screws									
		Enviro	nment							
Operating temperature	-10° to +40°C / 80% of humidity without condensation No thermal shock (max temperature variation: 10°C in 24h)									
Storage temperature	-20° to +60°C / 80% of humidity without condensation No thermal shock (max temperature variation: 10°C in 24h)									
IP protection	IP 65									
Labels	RoHS-CE-WEEE									

Features and presentations liable to modifications without prior notice. Ref.TS-010201-A2, 2020/02 Edition





Other available documents : • PDF, DWG, DXF, STEP DRAWINGS (on demand) • USER GUIDE

