

# HIGH POWER STROBE HPS BAR



## WORLD LEADING PERFORMANCE

for demanding Machine Vision & Code Reading Applications

NEW RELEASE



HPS BAR



STANDARD M12 CONNECTORS



EASY MOUNTING

SIZES:  
125mm  
up to  
2500mm



- HIGH POWER STROBE BARLIGHTS
- > 2.5M LUX AT 200mm
- < 800ns RISE TIME
- HIGH UNIFORMITY
- LOW CONSUMPTION
- ANGLE CHANGER FLEXIBILITY
- BUILT-IN CONTROLLER
- IP RATING IP65

VARIOUS COLOURS:

WHI 470 525 630 850



TPL VISION IS AN ISO 9001 CERTIFIED MANUFACTURER.

# HIGH POWER STROBE HPS BAR



## FEATURES OVERVIEW



### STANDARD M12 CONNECTORS

- M12 5P **A-coded** (up to 1000mm)
- M12 4P **T-coded** (up to 2500mm)

### NEW OPTICAL DESIGN

- High density LED clusters for maximum output for brightness and uniformity
- Enabling use of existing **Angle Changers**



PATENT PENDING

### 24 VDC

with Low Input Power Consumption enabling **low wattage power supply**

### T-SLOT MOUNTING ON 3 SIDES



### 5 COLOURS



850nm

630nm

525nm

470nm

WHI

### DIMENSIONS

from **125 mm** to **2500 mm**



### BUILT FOR HIGH SPEED APPLICATIONS

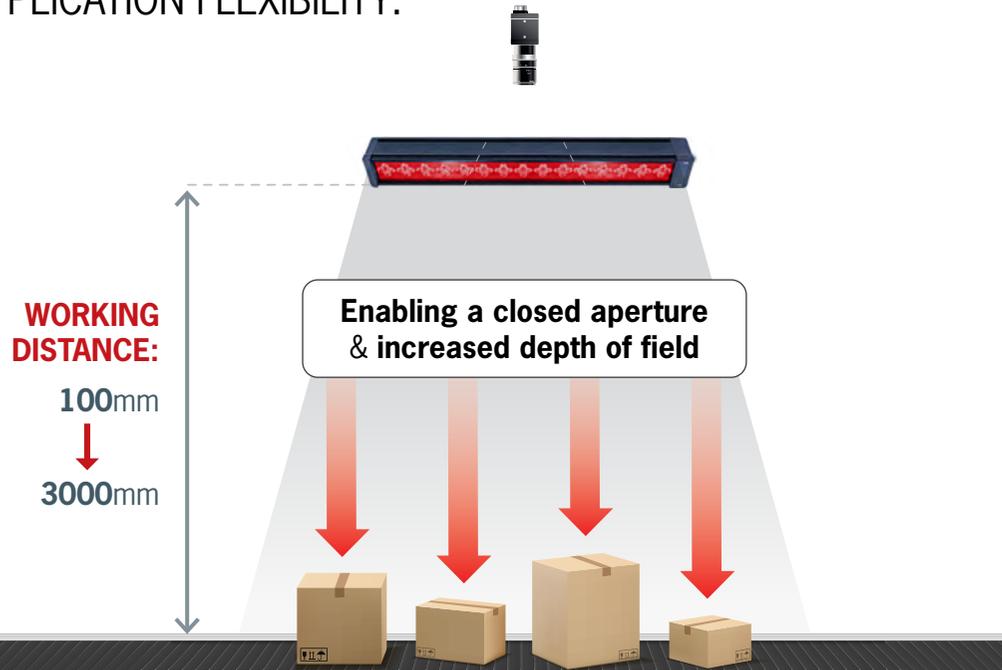
like conveyor belt systems



# HIGH POWER STROBE HPS BAR

## FEATURES OVERVIEW

### ■ APPLICATION FLEXIBILITY:



■ Ensuring shutter speed is short to **remove motion blur** on fast moving objects.

■ **<800ns rise time:** the triggering can be done by the camera for low exposure time applications → **no need for a complex timing controller.**

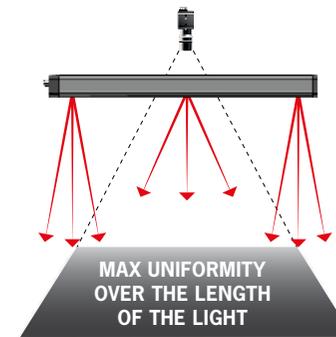
### ■ ANGLE CHANGERS 125 OR 250mm:



**CHANGE THE BEAM ANGLE EASILY**

- Narrow  $\pm 10^\circ$   
(Standard & Polarised)
- Medium  $\pm 17^\circ$   
(Standard & Polarised)
- Wide  $\pm 25^\circ$   
(Standard & Polarised)
- Line  $\pm 9-16^\circ$   
(Standard & Polarised)
- **Polariser** alone

### ■ WHAT IS THE CURVE EFFECT ?



**REQUEST FOR  
THE TECHNICAL NOTE**

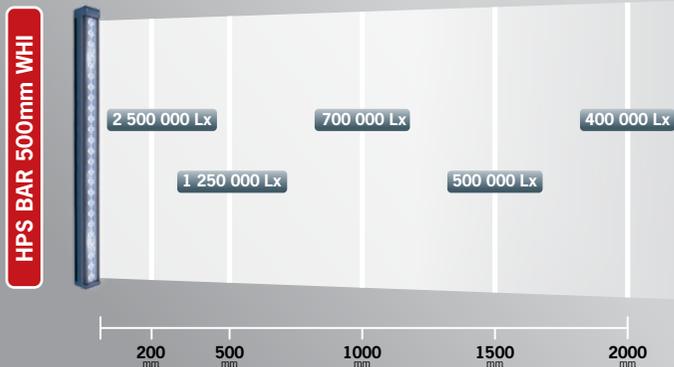
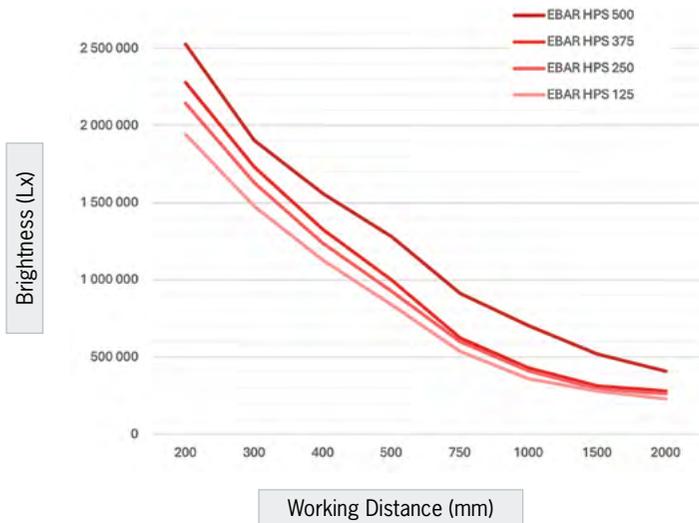




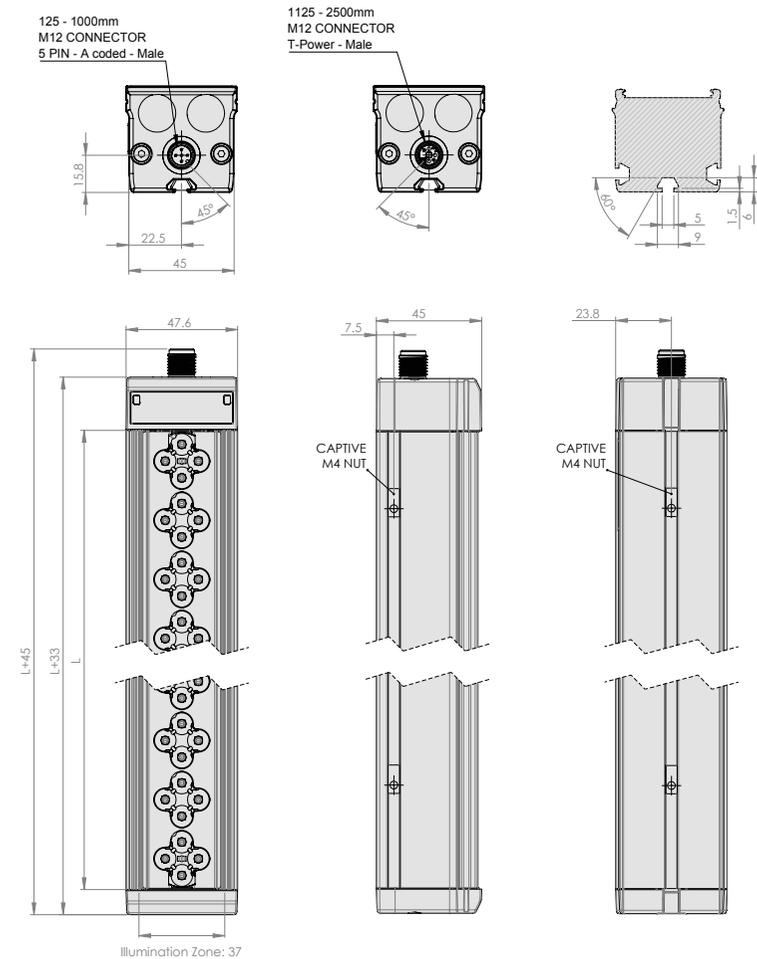
# HIGH POWER STROBE HPS BAR

## TECHNICAL DATA

### LIGHTING POWER IN LUX



### DRAWINGS



# HIGH POWER STROBE HPS BAR



## TECHNICAL DATA & ORDER REFERENCES

| Electronics                 |  |
|-----------------------------|--|
| Power Supply                | 24 VDC ±10%  |
| Functioning Mode            | OverDrive  |
| Rise Time                   | <800 ns  |
| Wiring                      | <ul style="list-style-type: none"> <li>• M12 5P up to 1000mm</li> <li>• M12 4P from 1125mm up to 2500mm</li> </ul> |
| Strobe Conditions           | 2.5ms Maximum On-time at 3.5% Duty Cycle   |
| Peak Consumption (WHI)      | <ul style="list-style-type: none"> <li>• Peak = 0.5A</li> <li>• Average = 0.35A</li> </ul>                         |
| Maximum Operating Frequency | 7kHz at a minimum on-time of 5µs   |
| Optics                      |  |
| Colours                     | White: 6500k, Red: 630nm, Infrared: 850nm, Blue: 470nm, Green: 525nm   |
| Mechanical                  |  |
| Dimensions                  | Length: from 125mm to 2500mm / Width: 48mm / Height: 45mm  |
| Weight                      | 314g (±10%) per 125mm  |
| Materials                   | Aluminium/PMMA/PC/Nickel-plated Brass/ PA66 30% GF   |
| Mounting/Fixing             | T-Slot   |
| Environment                 |  |
| Operating Temperature       | 0° to +40°C / 80% of humidity without condensation<br>No thermal shock (max temperature variation: 10°C in 24h)    |
| Storage Temperature         | -20° to +60°C / 80% of humidity without condensation<br>No thermal shock (max temperature variation: 10°C in 24h)  |
| IP Protection               | IP 65  |
| Information                 |  |
| Labels                      | RoHS / CE / UKCA / WEEE  |
| Country of Origin           | Made in France   |
| Tariff Number               | 94054990   |

### HPS BAR:

| HPSBAR | DIMENSION |      | COLOUR      | ANGLE |
|--------|-----------|------|-------------|-------|
|        | 125       | 1375 | WHI (white) | UN    |
|        | 250       | 1500 | 630 (red)   |       |
|        | 375       | 1625 | 525 (green) |       |
|        | 500       | 1750 | 470 (blue)  |       |
|        | 625       | 1875 | 850 (IR)    |       |
|        | 750       | 2000 |             |       |
|        | 875       | 2125 |             |       |
|        | 1000      | 2250 |             |       |
|        | 1125      | 2375 |             |       |
|        | 1250      | 2500 |             |       |

**EXAMPLES:**

- HPS BAR 500mm white  
➔ HPSBAR-500-WHI-5
- HPS BAR 1250mm red  
➔ HPSBAR-1250-630-5

### ANGLE CHANGERS:

| AC-EBAR (125mm)<br>OR<br>AC2-EBAR (250mm) | ANGLE          | OPTION: POLARISER   |
|---|----------------|---|
|   | N (narrow)     | P1  |
|   | M (medium)     |   |
|   | W (wide)       |   |
|   | L (line light) |   |
|   | TRANSPARENT    | EXAMPLES:   |
|   | T              |   |
|   | POLARISER ONLY | <ul style="list-style-type: none"> <li>• Narrow Angle Changer 125mm<br/>➔ AC-EBAR-N</li> <li>• Medium Angle Changer 250mm polarised<br/>➔ AC2-EBAR-M-P1</li> <li>• Angle Changer 125mm Polariser Only<br/>➔ AC-EBAR-POL1</li> </ul> |
|   | POL1           |   |



Get more information:

[www.tpl-vision.com](http://www.tpl-vision.com)