

ESSENTIAL EBAR+

EASY TO USE & POWERFUL LED LIGHTING BAR

IP65
PROTECTION

▶ LED LIGHTING SYSTEM ▶ MACHINE VISION APPLICATIONS ▶ HIGH POWERFUL LED ▶ DIRECT LIGHTING ▶ QUALITY CONTROL WITH CAMERA

SIMPLICITY LEADING TO POWER.



- ✓ high powerful lighting,
- ✓ rising time: 15 μ s,
- ✓ from 17 cm to 1 m 30.

4 VERSIONS AVAILABLE

Besides the **Standard** version, high power LED bar, easy to set and to use, there are 3 other EBAR+ versions:

**LINK
VERSION**

Connect it directly to the camera (no power limit).

**OVERDRIVE
VERSION**

Power customisable by the user, overdrive up to **X4**

**EXPERT
VERSION**

Light managed by a remote controller overdrive up to **X8**

The Essential EBAR+ is a highly powerful LED light, very useful for machine vision applications requiring intense luminous flux. It can be set up downwards, in the same axis as the camera's, or with an angle of incidence, to perfectly illuminate rectangular areas on a production line.

The Essential EBAR+ is very easy to use: you don't have to adjust anything, only to plug it. There are 2 functioning modes: continuous and strobe, with very short rising and falling times (15 μ s and 10 μ s).

Its black aluminum structure, very robust, is IP65. It also helps to dissipate the heat generated by the LED. Moreover, 2 LED indicators near the connector show if the product is powered.

The Essential EBAR+ is available in different colours and in multiple lengths, from 17 cm to 1m30.

4 VERSIONS AVAILABLE

Besides the **STANDARD version**, 3 other versions are available:



DIRECT CONNECTION TO THE CAMERA (NO POWER LIMIT)

The LINK version has a specific wiring, compound of 3 M12 connectors. So, you can easily link the light directly to the camera, and if necessary, to supply the light with extra power. You can also connect several lights one to another, for a perfect signal synchronisation. The LINK version perfectly fits high speed production lines.



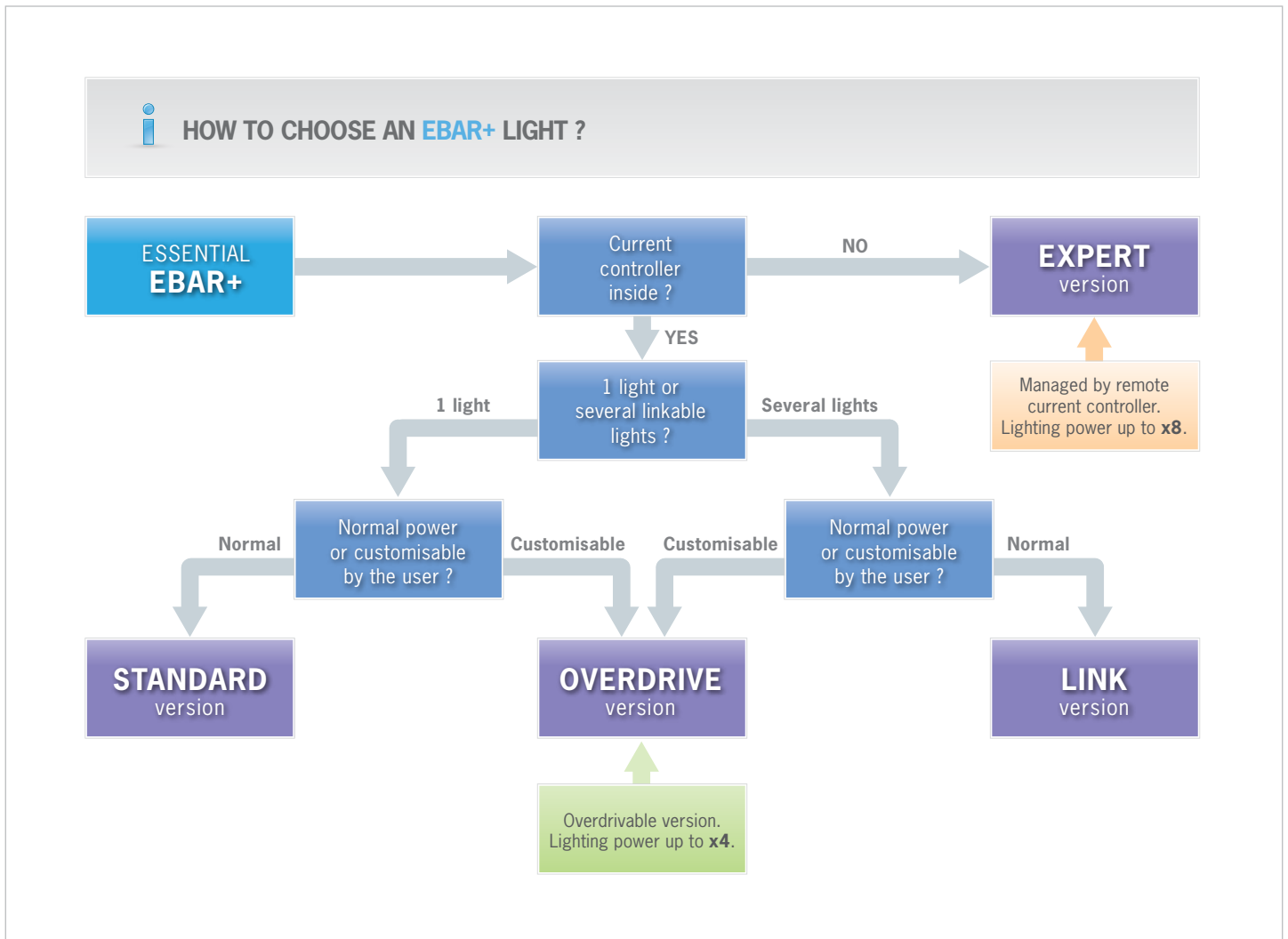
OVERDRIVE UP TO x4 WITH CURRENT CONTROL INSIDE

The OVERDRIVE version is just as easy to set and to use as the STANDARD version. Equipped with specific electronics, it gives the opportunity for users to overdrive on their own the lighting power. The OVERDRIVE version is dedicated to specialists who want to customize the luminous flux very precisely, so as to get the most reliable results.



OVERDRIVE UP TO x8 WITH YOUR OWN CONTROLLER

In the EXPERT version, the products do not have any current controller, which is very useful for users who want to work with their own controllers. In strobe mode, they can use the EXPERT lights in overdrive, so as to get a more intense light power. The EXPERT version definitely targets machine vision specialists, able to manage a whole vision system.



Features and presentations liable to modifications without prior notice. Documentation valid from June 2017 until further notice. C-3 version, 2018/02 Edition

TPL VISION UK

Brenchley House - School Road - Charing - Kent TN27 0JW - UK
Tel. +44 (0)1738 450 504 - contact@tpl-vision.co.uk

www.tpl-vision.com



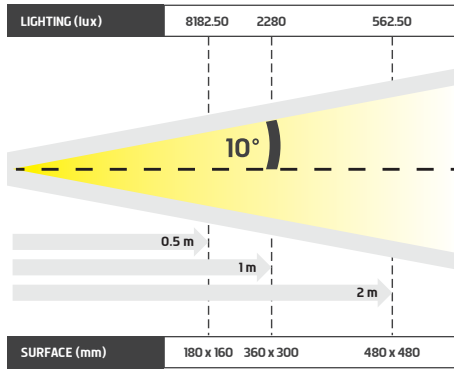
Other available documents :

- PDF, DWG, DXF, IGS, STEP & X_Y DRAWINGS
- USER'S GUIDE

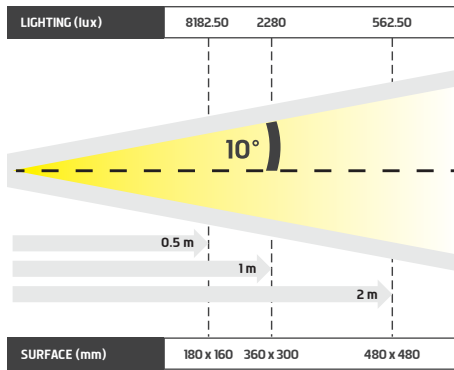
Essential EBAR+



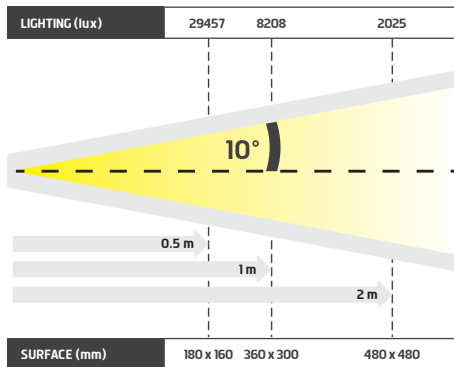
LIGHTING AREAS



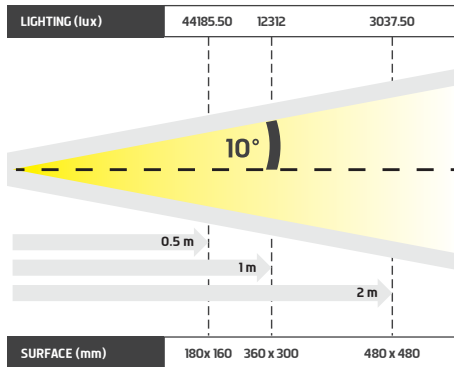
► Demo for EBAR+ 125



► Demo for EBAR+ Link 125



► Demo for EBAR+ Overdrive 125



► Demo for EBAR+ Expert 125

| EBAR+ | Distance : 0.5 m | | Distance : 1 m | | Distance : 2 m | |
|------------|------------------|---------------|----------------|---------------|----------------|---------------|
| | Max. value | Lighting area | Max. value | Lighting area | Max. value | Lighting area |
| EBAR+ 125 | 8182.50 | 180x160 mm | 2280.00 | 360x300 mm | 562.50 | 480x480 mm |
| EBAR+ 250 | 12337.50 | 200x160 mm | 4027.50 | 300x300 mm | 1065.00 | 400x480 mm |
| EBAR+ 375 | 13927.50 | 280x160 mm | 5280.00 | 360x260 mm | 1507.50 | 520x480 mm |
| EBAR+ 500 | 14302.50 | 400x170 mm | 6120.00 | 400x260 mm | 1890.00 | 560x480 mm |
| EBAR+ 625 | 14505.00 | 460x170 mm | 6652.50 | 500x300 mm | 2212.50 | 560x500 mm |
| EBAR+ 750 | 14565.00 | 520x170 mm | 6885.00 | 580x300 mm | 2475.00 | 600x500 mm |
| EBAR+ 875 | 14647.50 | 740x170 mm | 7012.50 | 660x260 mm | 2692.50 | 680x500 mm |
| EBAR+ 1000 | 14647.50 | 860x170 mm | 7087.50 | 800x300 mm | 2872.50 | 760x530 mm |
| EBAR+ 1125 | 14647.50 | 1160x180 mm | 7147.50 | 920x300 mm | 3015.00 | 840x540 mm |
| EBAR+ 1250 | 14647.50 | 1200x180 mm | 7177.50 | 1000x300 mm | 3120.00 | 920x540 mm |

(white light measures)

| EBAR+ Link | Distance : 0.5 m | | Distance : 1 m | | Distance : 2 m | |
|-----------------|------------------|---------------|----------------|---------------|----------------|---------------|
| | Max. value | Lighting area | Max. value | Lighting area | Max. value | Lighting area |
| EBAR+ Link 125 | 8182.50 | 180x160 mm | 2280.00 | 360x300 mm | 562.50 | 480x480 mm |
| EBAR+ Link 250 | 12337.50 | 200x160 mm | 4027.50 | 300x300 mm | 1065.00 | 400x480 mm |
| EBAR+ Link 375 | 13927.50 | 280x160 mm | 5280.00 | 360x260 mm | 1507.50 | 520x480 mm |
| EBAR+ Link 500 | 14302.50 | 400x170 mm | 6120.00 | 400x260 mm | 1890.00 | 560x480 mm |
| EBAR+ Link 625 | 14505.00 | 460x170 mm | 6652.50 | 500x300 mm | 2212.50 | 560x500 mm |
| EBAR+ Link 750 | 14565.00 | 520x170 mm | 6885.00 | 580x300 mm | 2475.00 | 600x500 mm |
| EBAR+ Link 875 | 14647.50 | 740x170 mm | 7012.50 | 660x260 mm | 2692.50 | 680x500 mm |
| EBAR+ Link 1000 | 14647.50 | 860x170 mm | 7087.50 | 800x300 mm | 2872.50 | 760x530 mm |
| EBAR+ Link 1125 | 14647.50 | 1160x180 mm | 7147.50 | 920x300 mm | 3015.00 | 840x540 mm |
| EBAR+ Link 1250 | 14647.50 | 1200x180 mm | 7177.50 | 1000x300 mm | 3120.00 | 920x540 mm |

(white light measures)

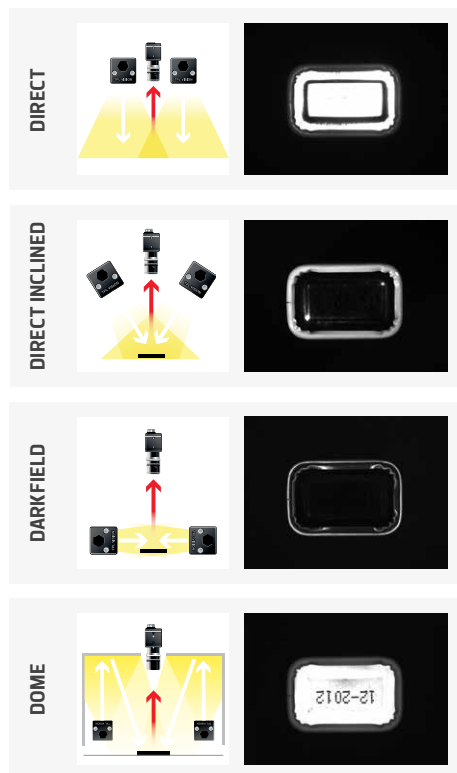
| EBAR+ Overdrive | Distance : 0.5 m | | Distance : 1 m | | Distance : 2 m | |
|----------------------|------------------|---------------|----------------|---------------|----------------|---------------|
| | Max. value | Lighting area | Max. value | Lighting area | Max. value | Lighting area |
| EBAR+ Overdrive 125 | 29457.00 | 180x160 mm | 8208.00 | 360x300 mm | 2025.00 | 480x480 mm |
| EBAR+ Overdrive 250 | 44415.00 | 200x160 mm | 14499.00 | 300x300 mm | 3834.00 | 400x480 mm |
| EBAR+ Overdrive 375 | 50139.00 | 280x160 mm | 19008.00 | 360x260 mm | 5427.00 | 520x480 mm |
| EBAR+ Overdrive 500 | 51489.00 | 400x170 mm | 22032.00 | 400x260 mm | 6804.00 | 560x480 mm |
| EBAR+ Overdrive 625 | 52218.00 | 460x170 mm | 23949.00 | 500x300 mm | 7965.00 | 560x500 mm |
| EBAR+ Overdrive 750 | 52434.00 | 520x170 mm | 24786.00 | 580x300 mm | 8910.00 | 600x500 mm |
| EBAR+ Overdrive 875 | 52731.00 | 740x170 mm | 25245.00 | 660x260 mm | 9693.00 | 680x500 mm |
| EBAR+ Overdrive 1000 | 52731.00 | 860x170 mm | 25515.00 | 800x300 mm | 10341.00 | 760x530 mm |
| EBAR+ Overdrive 1125 | 52731.00 | 1160x180 mm | 25731.00 | 920x300 mm | 10854.00 | 840x540 mm |
| EBAR+ Overdrive 1250 | 52731.00 | 1200x180 mm | 25839.00 | 1000x300 mm | 11232.00 | 920x540 mm |

(white light measures)

| EBAR+ Expert | Distance : 0.5 m | | Distance : 1 m | | Distance : 2 m | |
|-------------------|------------------|---------------|----------------|---------------|----------------|---------------|
| | Max. value | Lighting area | Max. value | Lighting area | Max. value | Lighting area |
| EBAR+ Expert 125 | 44185.50 | 180x160 mm | 12312.00 | 360x300 mm | 3037.50 | 480x480 mm |
| EBAR+ Expert 250 | 66622.50 | 200x160 mm | 21748.50 | 300x300 mm | 5751.00 | 400x480 mm |
| EBAR+ Expert 375 | 75208.50 | 280x160 mm | 28512.00 | 360x260 mm | 8140.50 | 520x480 mm |
| EBAR+ Expert 500 | 77233.50 | 400x170 mm | 33048.00 | 400x260 mm | 10206.00 | 560x480 mm |
| EBAR+ Expert 625 | 78327.00 | 460x170 mm | 35923.50 | 500x300 mm | 11947.50 | 560x500 mm |
| EBAR+ Expert 750 | 78651.00 | 520x170 mm | 37179.00 | 580x300 mm | 13365.00 | 600x500 mm |
| EBAR+ Expert 875 | 79096.50 | 740x170 mm | 37867.50 | 660x260 mm | 14539.50 | 680x500 mm |
| EBAR+ Expert 1000 | 79096.50 | 860x170 mm | 38272.50 | 800x300 mm | 15511.50 | 760x530 mm |
| EBAR+ Expert 1125 | 79096.50 | 1160x180 mm | 38596.50 | 920x300 mm | 16281.00 | 840x540 mm |
| EBAR+ Expert 1250 | 79096.50 | 1200x180 mm | 38758.50 | 1000x300 mm | 16848.00 | 920x540 mm |

(white light measures)

TECHNICAL SPECIFICATIONS



| | EBAR+ | EBAR+ Link | EBAR+ Overdrive | EBAR+ Expert |
|---|---|--|--|--------------------------------|
| General information | | | | |
| Power supply | 24 VDC +/-10% | 24 VDC +/-10% | 24 VDC +/-10% | External Control Current Drive |
| Max standard length (mm) | 1250 | 1250 | 2500 | 3125 |
| Functioning mode | CW + STR | CW + STR | CW + STR | CW + STR* |
| Overdrive | No | No | Yes | Yes |
| Strobe conditions (On time, duty cycle) | No restriction | No restriction | x3 : 2ms @ 5% | See user guide |
| Strobe input | 24VDC PNP & NPN | 24VDC PNP & NPN | 24VDC PNP & NPN | N/A |
| Dimming | 0-10V = 100%-20% | 0-10V = 100%-20% | 0-10V = 100%-20% | N/A |
| Maximum rising time | 15µs | 15µs | 15µs | User's conditions |
| Maximum falling time | 10µs | 10µs | 15µs | User's conditions |
| Wiring | 1x male M12 5 poles | 2x male M12 5 poles 1x female M12 5 poles | 1x male M12 4 poles** 1x male M12 5 poles 1x female M12 5 poles | 1x male M12 4 poles** |
| Materials | | | | |
| Body materials | Aluminum | | | |
| Finish | Anodization | | | |
| Connector materials | Loaded ABS | | | |
| Diffuser option | Abrasion-resistant Polycarbonate | | | |
| Environment | | | | |
| 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-DEEE | | | |

PNP : From 5 to 24V for 100% ON. From 0 to 1V for 100% OFF.
NPN : less than 1V for 100% ON. Above 2V for 100% OFF. Max 20V.

* According to conditions of use
** Use a special cable TPower 4 poles
*** Liable to the use of a TPL Vision IP65 cable

| EBAR+ | Max standard length 1250mm - up to 2500 mm on demand | | | | | | | | | |
|---|--|------|------|------|------|------|------|------|------|------|
| | 125 | 250 | 375 | 500 | 625 | 750 | 875 | 1000 | 1125 | 1250 |
| Electronics | | | | | | | | | | |
| Max current (A) through power supply | 0,4 | 0,8 | 1,2 | 1,6 | 2 | 2,4 | 2,8 | 3,2 | 3,6 | 4 |
| Max. Consumption (W) | 9,6 | 19,2 | 28,8 | 38,4 | 48 | 57,6 | 67,2 | 76,8 | 86,4 | 96 |
| Max voltage drop in the bar (V) | 0,01 | 0,03 | 0,06 | 0,11 | 0,17 | 0,25 | 0,34 | 0,44 | 0,56 | 0,69 |
| Power supply cable : max length 5x0,34 ² for acceptable voltage drop (m) | 180 | 90 | 60 | 43 | 34 | 27 | 23 | 20 | 17 | 15 |
| Optics | | | | | | | | | | |
| Colour | White, Red, Green, Blue, Infrared | | | | | | | | | |
| Number of Leds | 5 | 10 | 15 | 20 | 25 | 30 | 35 | 40 | 45 | 50 |
| Lenses | ± 7°, ± 10°, ± 17°, ± 25°, ± 9-16°, NL | | | | | | | | | |
| Mechanics | | | | | | | | | | |
| Total length (mm) | 158 | 283 | 408 | 533 | 658 | 783 | 908 | 1033 | 1158 | 1283 |
| Width x Height (mm) | 47,6 x 45 | | | | | | | | | |
| Useful length (mm) | 126 | 251 | 376 | 501 | 626 | 751 | 876 | 1001 | 1126 | 1251 |
| Useful width (mm) | 31,5 | | | | | | | | | |
| Weight (g) +/-10% | 255 | 476 | 698 | 919 | 1140 | 1361 | 1583 | 1804 | 2025 | 2246 |
| Fixing | 2 M4 nuts to insert in the groove located on the back of the light or directly use M4 screws | | | | | | | | | |
| Included add-ons | Lg 600mm : 2 nuts / 600<Lg<1250 : 3 nuts | | | | | | | | | |



| EBAR+ Link | Max standard length 1250mm - up to 2500 mm on demand | | | | | | | | | |
|---|---|------|------|------|------|------|------|------|------|------|
| | 125 | 250 | 375 | 500 | 625 | 750 | 875 | 1000 | 1125 | 1250 |
| Electronics | | | | | | | | | | |
| Max current (A) through power supply | 0,4 | 0,8 | 1,2 | 1,6 | 2 | 2,4 | 2,8 | 3,2 | 3,6 | 4 |
| Max. Consumption (W) | 9,6 | 19,2 | 28,8 | 38,4 | 48 | 57,6 | 67,2 | 76,8 | 86,4 | 96 |
| Max voltage drop in the bar (V) | 0,07 | 0,14 | 0,21 | 0,28 | 0,35 | 0,42 | 0,49 | 0,56 | 0,63 | 0,70 |
| Power supply cable : max length 5x0,34 ² for acceptable voltage drop (m) | 180 | 90 | 60 | 43 | 34 | 27 | 23 | 20 | 17 | 15 |
| Linking cable : Lg max 5x0,34 ² for acceptable voltage drop (m) | No restriction if each bar has its own power supply cable – please contact us for other configuration | | | | | | | | | |
| Optics | | | | | | | | | | |
| Colour | White, Red, Green, Blue, Infrared | | | | | | | | | |
| Number of Leds | 5 | 10 | 15 | 20 | 25 | 30 | 35 | 40 | 45 | 50 |
| Lenses | ± 7°, ± 10°, ± 17°, ± 25°, ± 9-16°, NL | | | | | | | | | |
| Mechanics | | | | | | | | | | |
| Total length (mm) | 158 | 283 | 408 | 533 | 658 | 783 | 908 | 1033 | 1158 | 1283 |
| Width x Height (mm) | 47,6 x 45 | | | | | | | | | |
| Useful length (mm) | 126 | 251 | 376 | 501 | 626 | 751 | 876 | 1001 | 1126 | 1251 |
| Useful width (mm) | 31,5 | | | | | | | | | |
| Weight (g) +/-10% | 275 | 496 | 718 | 939 | 1160 | 1381 | 1603 | 1824 | 2045 | 2266 |
| Fixing | 2 M4 nuts to insert in the groove located on the back of the light or directly use M4 screws | | | | | | | | | |
| Included add-ons | Lg 600mm : 2 nuts / 600<Lg<1250 : 3 nuts | | | | | | | | | |

| EBAR+ Overdrive | Max standard length 2500mm | | | | | | | | | |
|--|---|------|------|------|------|------|------|------|------|------|
| | 125 | 250 | 375 | 500 | 625 | 750 | 875 | 1000 | 1125 | 1250 |
| Electronics | | | | | | | | | | |
| Max current (A) through power supply | 2 | 4 | 6 | 8 | 10 | 12 | 14 | 16 | 18 | 20 |
| Average current (A) through power supply | 0.46 | 0.92 | 1.38 | 1.84 | 2.3 | 2.76 | 3.22 | 3.68 | 4.14 | 4.6 |
| Max. Consumption (W) | 48 | 96 | 144 | 192 | 240 | 288 | 336 | 384 | 432 | 480 |
| Average consumption (W) | 11.1 | 22.2 | 33.3 | 44.4 | 55.5 | 66.6 | 77.7 | 88.8 | 99.9 | 111 |
| Max voltage drop in the bar (V) | 0.01 | 0.03 | 0.06 | 0.12 | 0.18 | 0.26 | 0.35 | 0.46 | 0.58 | 0.72 |
| Power supply cable : max length 4x1,5 ² for acceptable voltage drop (m) | >150 | >150 | >150 | >150 | 138 | 112 | 94 | 80 | 68 | 59 |
| Linking cable : Lg max 5x0,34 ² for acceptable voltage drop (m) | No restriction if each bar has its own power supply cable – please contact us for other configuration | | | | | | | | | |
| Optics | | | | | | | | | | |
| Colour | White, Red, Green, Blue, Infrared | | | | | | | | | |
| Number of Leds | 5 | 10 | 15 | 20 | 25 | 30 | 35 | 40 | 45 | 50 |
| Lenses | ± 7°, ± 10°, ± 17°, ± 25°, ± 9-16°, NL | | | | | | | | | |
| Mechanics | | | | | | | | | | |
| Total length (mm) | 158 | 283 | 408 | 533 | 658 | 783 | 908 | 1033 | 1158 | 1283 |
| Width x Height (mm) | 47,6 x 45 | | | | | | | | | |
| Useful length (mm) | 126 | 251 | 376 | 501 | 626 | 751 | 876 | 1001 | 1126 | 1251 |
| Useful width (mm) | 31,5 | | | | | | | | | |
| Weight (g) +/-10% | 275 | 496 | 718 | 939 | 1160 | 1381 | 1603 | 1824 | 2045 | 2266 |
| Fixing | 2 M4 nuts to insert in the groove located on the back of the light or directly use M4 screws | | | | | | | | | |
| Included add-ons | Lg 600mm : 2 nuts / 600<Lg<1250 : 3 nuts / 1250<Lg<2500 : 4 nuts | | | | | | | | | |

| EBAR+ Expert | Max standard length 3125mm | | | | | | | | | |
|--|--|------|------|------|------|------|------|------|------|------|
| | 125 | 250 | 375 | 500 | 625 | 750 | 875 | 1000 | 1125 | 1250 |
| Electronics | | | | | | | | | | |
| Max current (A) | Up to 1125mm : 2,5A/125mm except for IR: 2A/125mm. Above 1125mm : 24A max | | | | | | | | | |
| Max voltage drop in the bar (V) under max current | 0,01 | 0,04 | 0,09 | 0,17 | 0,26 | 0,38 | 0,51 | 0,67 | 0,84 | 0,92 |
| Power supply cable : max length 4x1,5 ² for acceptable voltage drop (m) | 52 | 25 | 16 | 12 | 9 | 7 | 5 | 4 | 3 | 2 |
| Optics | | | | | | | | | | |
| Colour | White, Red, Green, Blue, Infrared | | | | | | | | | |
| Number of Leds | 5 | 10 | 15 | 20 | 25 | 30 | 35 | 40 | 45 | 50 |
| Lenses | ± 7°, ± 10°, ± 17°, ± 25°, ± 9-16°, NL | | | | | | | | | |
| Mechanics | | | | | | | | | | |
| Total length (mm) | 158 | 283 | 408 | 533 | 658 | 783 | 908 | 1033 | 1158 | 1283 |
| Width x Height (mm) | 47,6 x 45 | | | | | | | | | |
| Useful length (mm) | 126 | 251 | 376 | 501 | 626 | 751 | 876 | 1001 | 1126 | 1251 |
| Useful width (mm) | 31,5 | | | | | | | | | |
| Weight (g) +/-10% | 275 | 496 | 718 | 939 | 1160 | 1381 | 1603 | 1824 | 2045 | 2266 |
| Fixing | 2 M4 nuts to insert in the groove located on the back of the light or directly use M4 screws | | | | | | | | | |
| Included add-ons | Lg 600mm : 2 nuts / 600<Lg<1250 : 3 nuts / 1250<Lg<2500 : 4 nuts / 2500<Lg<3125 : 5 nuts | | | | | | | | | |

HOW TO BUILD YOUR REFERENCE

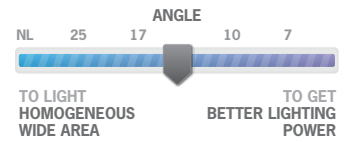
REQUIRED SETTINGS

| EBAR | VERSION | USEFUL DIMENSION | COLOUR | LENS/ OPTIC ANGLE |
|------|-------------|------------------|---|-------------------|
| | STANDARD | 125 (= 5 LED) | WHI  | 7 ± 7° |
| | O OVERDRIVE | 250 (= 10 LED) | 630  | 10 ± 10° |
| | L LINK | 375 (= 15 LED) | 525  | 9-16 ± 9°/16° |
| | E EXPERT | 500 (= 20 LED) | 470  | 17 ± 17° |
| | | 625 (= 25 LED) | 850  | 25 ± 25° |
| | | 750 (= 30 LED) | | NL NO LENS |
| | | 875 (= 35 LED) | | |
| | | 1000 (= 40 LED) | | |
| | | 1125 (= 45 LED) | | |
| | | 1250 (= 50 LED) | | |

INFORMATION ABOUT LENSES

NARROW ANGLE = GIVE PRIORITY TO LIGHTING POWER

WIDE ANGLE = GIVE PRIORITY TO HOMOGENEITY AND WIDE AREA



EXAMPLES :

EBAR+ Standard 125 mm white LED ± 10° IP65 rating → **EBAR-125-WHI-10**
 EBAR+ Overdrive 250 mm red LED ± 17° IP65 rating → **EBAR-O-250-630-17**
 EBAR+ Expert 500 mm blue LED ± 25° IP65 rating → **EBAR-E-500-470-25**

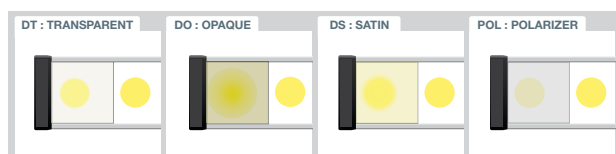
DIFFUSERS

By default, the EBAR+ is delivered with a transparent diffuser. To order more diffusers (or polarizers), please use the following reference builder :

| DIFFUSER | BAR | DIMENSION |
|----------------|-----|-----------|
| DT TRANSPARENT | | 125 |
| DO OPAQUE | | 250 |
| DS SATIN | | 375 |
| POL POLARIZER | | 500 |
| | | 625 |
| | | 750 |
| | | 875 |
| | | 1000 |
| | | 1125 |
| | | 1250 |

EXAMPLES :


Transparent diffuser for bar 250 mm :
 → **DT-BAR-250**
 Satin diffuser for bar 1000 mm :
 → **DS-BAR-1000**



RELATED PRODUCTS

M12 female 5 pins cable


Compatible : Standard, LINK & OVERDRIVE versions



| | |
|-----------|-------------------|
| 2 meters | Ref: C-M12-5P-2M |
| 5 meters | Ref: C-M12-5P-5M |
| 10 meters | Ref: C-M12-5P-10M |

M12 female/M12 male 5 pins extension cable

Compatible : LINK & OVERDRIVE versions (daisy chain)



| | |
|-----------|-----------------------|
| 5 meters | Ref: RA-M12-FM-5P-5M |
| 10 meters | Ref: RA-M12-FM-5P-10M |

M12 female T-Power 4 pins cable

Compatible : OVERDRIVE (24V power supply) & EXPERT versions



| | |
|-----------|---------------------|
| 2 meters | Ref: C-M12-4P-T-2M |
| 5 meters | Ref: C-M12-4P-T-5M |
| 10 meters | Ref: C-M12-4P-T-10M |

Safety glasses



Ref: EYE-PROTECT

Accessory : Bar BMOUNT



Ref: BMOUNT

Accessory : Swivel Mount



Ref: SWIVEL-MOUNT