

## LARGE LBACK

LARGE SIZE BACKLIGHT

▷ MACHINE VISION SYSTEM

▷ QUALITY CONTROL WITH CAMERA

▷ HIGH POWERFUL LED

▷ LARGE BACKLIGHT

▷ DIFFUSE AND HOMOGENEOUS LIGHTING

## POWERFUL AND HOMOGENEOUS BACKLIGHT.



- ✓ Large dimensions,
- ✓ reinforced structure,
- ✓ continuous and strobe modes.

The LARGE LBACK is a solid tailor-made backlight, that offers a very homogeneous lighting. Among TPL Vision's range, the LARGE LBACK is the biggest backlight. It can easily illuminate a big surface, even when the camera is settled far away from the conveyor.

The LARGE LBACK reveals all its potential in any kind of quality control: presence/absence, outline defaults, materials lacks. It can also be used in directive diffuse lighting so as to improve the contrast of a marking on a shiny item.



THE **LARGE LBACK**, EQUIPPED WITH REINFORCED STRUCTURES, IS AVAILABLE IN **VARIOUS DIMENSIONS**:  
From **400 x 200 mm** to **1 000 x 1 000 mm** and **1 500 x 850 mm**.



## RELATED PRODUCTS

Ask for your add-ons, customized for the Large LBACK

- wiring
- safety glasses
- fixing hardware

## TECHNICAL SPECIFICATIONS

| Electronics           |   |
|-----------------------|---|
| Power supply          | 24 VDC +/-10%   |
| Functioning mode      | Continuous or strobe according to wiring                        |
| Maximum rising time   | 1.5 ms  |
| Maximum falling time  | 1 ms  |
| Wiring                | From 1 to 5 M12 4 poles male connectors (according to the size) |
| Max. Consumption      | See table   |
| Optics                |   |
| Colour                | White, Red, Green, Blue, Infrared                               |
| Mechanics             |   |
| Thickness             | 60 mm   |
| Width x length        | From 400 x 200 mm to 1000 x 1000 mm and 1500 x 850 mm           |
| Body materials        | Aluminum  |
| Diffuser              | Opaque diffuser   |
| Fixing                | 4 M6 screws (not supplied)                                      |
| Environment           |   |
| Operating temperature | 0 - 40°C  |
| Storage temperature   | 0 - 60°C  |
| IP protection         | IP 40   |
| Labels                | RoHS-CE-DEEE  |

## HOW TO BUILD ONE'S REFERENCE

### REQUIRED SETTINGS

|   |  |   |           |   |  |            |                          |            |                          |            |                          |            |                          |            |                          |
|---|--|---|-----------|---|--|------------|--------------------------|------------|--------------------------|------------|--------------------------|------------|--------------------------|------------|--------------------------|
| <b>LBACK</b>  | <b>A</b><br>useful length of the side without connector* | <b>B</b><br>useful length of the side with connector* | <b>06</b> | - | <b>COLOUR</b>  |            |                          |            |                          |            |                          |            |                          |            |                          |
| * Please refer to the table on the opposite page to know the feasible dimensions. |  |   |           |   | <table border="1"> <tr> <td><b>WHI</b></td> <td><input type="checkbox"/></td> </tr> <tr> <td><b>630</b></td> <td><input type="checkbox"/></td> </tr> <tr> <td><b>525</b></td> <td><input type="checkbox"/></td> </tr> <tr> <td><b>470</b></td> <td><input type="checkbox"/></td> </tr> <tr> <td><b>850</b></td> <td><input type="checkbox"/></td> </tr> </table> | <b>WHI</b> | <input type="checkbox"/> | <b>630</b> | <input type="checkbox"/> | <b>525</b> | <input type="checkbox"/> | <b>470</b> | <input type="checkbox"/> | <b>850</b> | <input type="checkbox"/> |
| <b>WHI</b>  | <input type="checkbox"/>                                 |   |           |   |  |            |                          |            |                          |            |                          |            |                          |            |                          |
| <b>630</b>  | <input type="checkbox"/>                                 |   |           |   |  |            |                          |            |                          |            |                          |            |                          |            |                          |
| <b>525</b>  | <input type="checkbox"/>                                 |   |           |   |  |            |                          |            |                          |            |                          |            |                          |            |                          |
| <b>470</b>  | <input type="checkbox"/>                                 |   |           |   |  |            |                          |            |                          |            |                          |            |                          |            |                          |
| <b>850</b>  | <input type="checkbox"/>                                 |   |           |   |  |            |                          |            |                          |            |                          |            |                          |            |                          |
| <b>EXAMPLES :</b>   |  | <b>RESULTS :</b>                                      |           |   |  |            |                          |            |                          |            |                          |            |                          |            |                          |
| LBACK A = 400 mm B = 400 mm WHITE LEDS :  |  | ➔ LBACK404006-WHI                                     |           |   |  |            |                          |            |                          |            |                          |            |                          |            |                          |
| LBACK A = 600 mm B = 400 mm RED LEDS :  |  | ➔ LBACK604006-630                                     |           |   |  |            |                          |            |                          |            |                          |            |                          |            |                          |
| LBACK A = 800 mm B = 800 mm BLUE LEDS :   |  | ➔ LBACK808006-470                                     |           |   |  |            |                          |            |                          |            |                          |            |                          |            |                          |

## MY CONTACT

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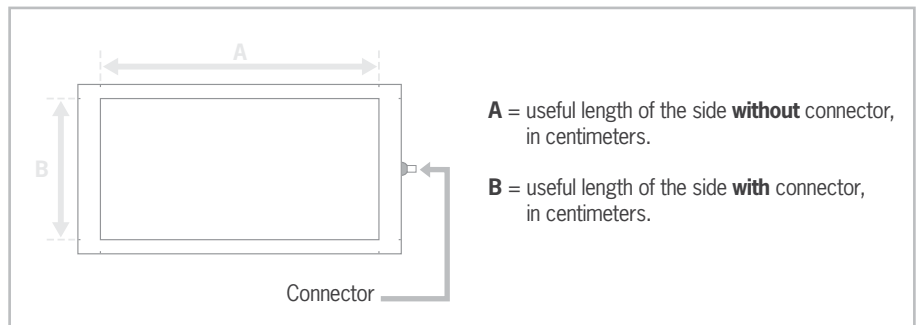
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### Other available documents :

- PDF, DWG, DXF, IGS, STEP & X\_Y DRAWINGS
- USER'S GUIDE

**Large LBACK**



# MAX. CONSUMPTION TABLE

White lighting
  Green lighting
  Blue lighting

| B (mm) | A (mm) |     |     |     |     |     |     |     |     |
|--------|--------|-----|-----|-----|-----|-----|-----|-----|-----|
|        | 400    | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 |
| 400    | 83     | 83  | 94  | 99  | 125 | 125 | 125 | 152 | 152 |
| 450    | 83     | 83  | 94  | 99  | 125 | 125 | 125 | 152 | 152 |
| 500    | 94     | 94  | 109 | 114 | 141 | 141 | 141 | 171 | 171 |
| 550    | 99     | 99  | 114 | 124 | 152 | 152 | 152 | 190 | 190 |
| 600    | 125    | 125 | 141 | 152 | 188 | 188 | 188 | 228 | 228 |
| 650    | 125    | 125 | 141 | 152 | 188 | 188 | 188 | 228 | 228 |
| 700    | 125    | 125 | 141 | 152 | 188 | 188 | 188 | 228 | 228 |
| 750    | 152    | 152 | 171 | 190 | 228 | 228 | 228 | 285 | 285 |
| 800    | 152    | 152 | 171 | 190 | 228 | 228 | 228 | 285 | 285 |

| Consumption (W) | Number of cables |
|-----------------|------------------|
| 0-95            | 1                |
| 96-191          | 2                |
| >192            | 3                |

Red lighting

| B (mm) | A (mm) |     |     |     |     |     |     |     |     |
|--------|--------|-----|-----|-----|-----|-----|-----|-----|-----|
|        | 400    | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 |
| 400    | 61     | 61  | 69  | 74  | 92  | 92  | 92  | 112 | 112 |
| 450    | 61     | 61  | 69  | 74  | 92  | 92  | 92  | 112 | 112 |
| 500    | 69     | 69  | 81  | 84  | 103 | 103 | 103 | 126 | 126 |
| 550    | 74     | 74  | 84  | 92  | 112 | 112 | 112 | 140 | 140 |
| 600    | 92     | 92  | 103 | 112 | 138 | 138 | 138 | 168 | 168 |
| 650    | 92     | 92  | 103 | 112 | 138 | 138 | 138 | 168 | 168 |
| 700    | 92     | 92  | 103 | 112 | 138 | 138 | 138 | 168 | 168 |
| 750    | 112    | 112 | 126 | 140 | 168 | 168 | 168 | 209 | 209 |
| 800    | 112    | 112 | 126 | 140 | 168 | 168 | 168 | 209 | 209 |

| Consumption (W) | Number of cables |
|-----------------|------------------|
| 0-95            | 1                |
| 96-191          | 2                |
| >192            | 3                |

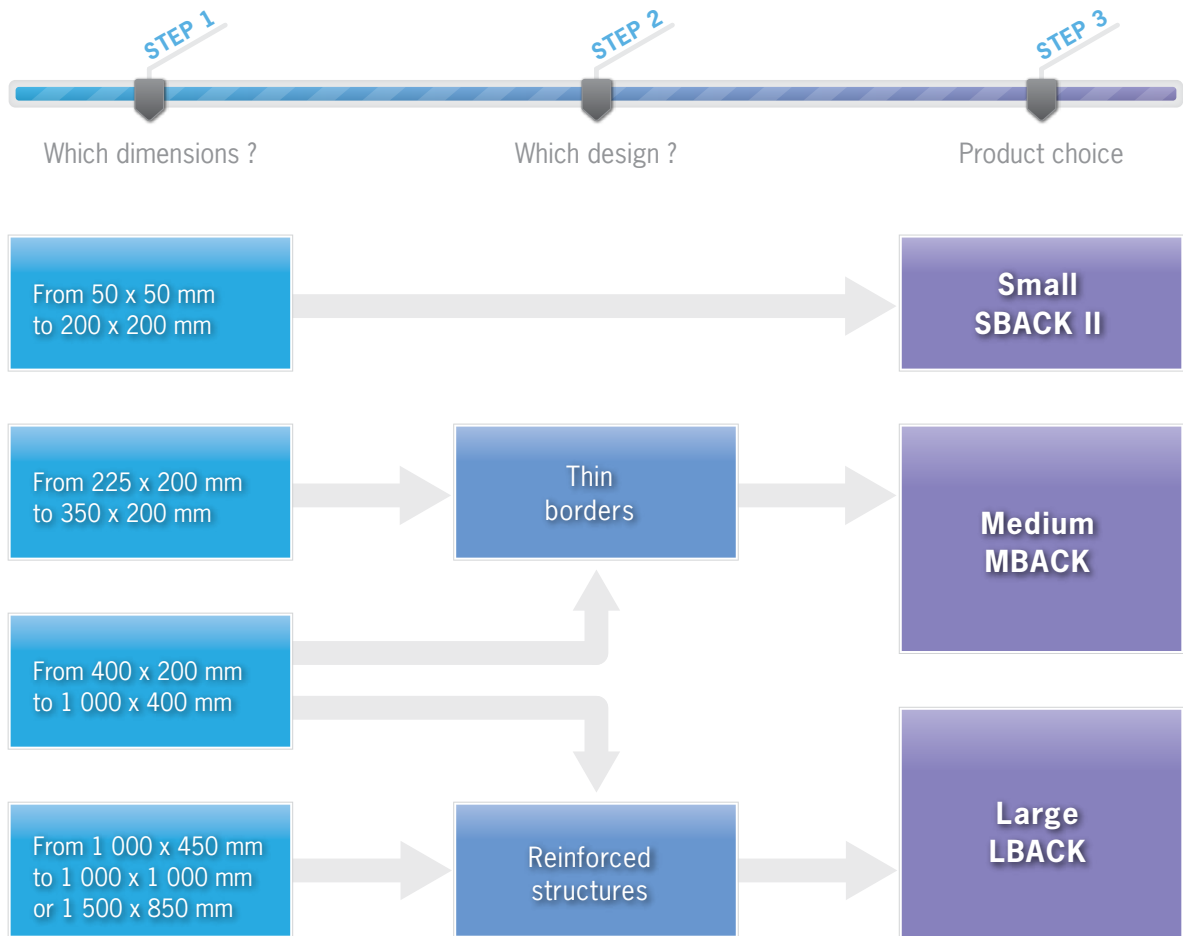
Infrared lighting

| B (mm) | A (mm) |     |     |     |     |     |     |     |     |
|--------|--------|-----|-----|-----|-----|-----|-----|-----|-----|
|        | 400    | 450 | 500 | 550 | 600 | 650 | 700 | 750 | 800 |
| 400    | 69     | 69  | 78  | 83  | 104 | 104 | 104 | 126 | 126 |
| 450    | 69     | 69  | 78  | 83  | 104 | 104 | 104 | 126 | 126 |
| 500    | 78     | 78  | 91  | 95  | 117 | 117 | 117 | 142 | 142 |
| 550    | 83     | 83  | 95  | 104 | 126 | 126 | 126 | 158 | 158 |
| 600    | 104    | 104 | 117 | 126 | 156 | 156 | 156 | 189 | 189 |
| 650    | 104    | 104 | 117 | 126 | 156 | 156 | 156 | 189 | 189 |
| 700    | 104    | 104 | 117 | 126 | 156 | 156 | 156 | 189 | 189 |
| 750    | 126    | 126 | 142 | 158 | 189 | 189 | 189 | 237 | 237 |
| 800    | 126    | 126 | 142 | 158 | 189 | 189 | 189 | 237 | 237 |

| Consumption (W) | Number of cables |
|-----------------|------------------|
| 0-95            | 1                |
| 96-191          | 2                |
| >192            | 3                |



## HOW TO CHOOSE YOUR BACKLIGHT ?



Other dimensions are available: please contact us.