MODULAR TINY M-TBAR

COMPACT SIZE, POWERFUL ILLUMINATION
with built-in driver technology

- 64mm

- ANGLE CHANGER compatible
- IP RATING IP67
- CURRENT CONTROL integrated onto cable
- EASY-CHAIN TOGETHER MULTIPLE LIGHTS with no change to LED spacing
- EASY MOUNTING
- AUTO-STROBE OVERDRIVE

TPL VISION IS AN ISO 9001 CERTIFIED MANUFACTURER.

CONTACT YOUR LOCAL SALES REPRESENTATIVE FOR MORE DETAILS.
MODULAR TINY M-TBAR

FEATURES OVERVIEW

ROBUST, ANODIZED ALUMINIUM HOUSING

±5° LENS ANGLE
Add Angle Changers for diffusion and to change beam angle.

IP67 RATING
with vent to avoid condensation.

MAGNETIC ATTACHMENT
for testing Angle Changers & SCREWS for fixing them in final application.

Rugged IP67-rated Design

Dedicated to CONFINED SPACES
MODULAR TINY M-TBAR

FEATURES OVERVIEW

NO CHANGE IN LED SPACING
when you chain the bars together.

CABLE MOUNTING FLEXIBILITY

EASY T-SLOT MOUNTING (nuts provided).

POWER SUPPLY:
- **AUTOSTROBE** – automatic OverDrive brightness when product is strobed \(<10\text{ms}\)
- **DIMMING** on continuous mode and overdrive mode
- \(<15\mu\text{s} \text{RISE TIME}\)
- **IP67 ENCLOSURE**

STANDARD M12 5 PINS
- 24VDC
- GND
- PNP
- NPN
- **DIMMING 0-10V = 100-30%**

9 DIFFERENT ANGLE CHANGERS:
- Narrow \(\pm10^\circ\) (Standard & Polarised)
- Medium \(\pm17^\circ\) (Standard & Polarised)
- Wide \(\pm25^\circ\) (Standard & Polarised)
- Line \(\pm9-16^\circ\) (Standard & Polarised)
- Polariser alone

CHANGE THE BEAM ANGLE EASILY
MODULAR TINY M-TBAR

ANGLE CHANGER LIGHTING DATA

**AC-TBAR-N**  
(Narrow angle)  
±10°

**AC-TBAR-M**  
(Medium angle)  
±17°

**AC-TBAR-W**  
(Wide angle)  
±25°

**AC-TBAR-L**  
(Line light)  
±16°

**NO ANGLE CHANGER**

**DISTANCE**

**100mm**

**200mm**

1 Square = 10mm x 10mm
MODULAR TINY M-TBAR

TECHNICAL DATA

DISTANCE

<table>
<thead>
<tr>
<th>Distance (mm)</th>
<th>Irradiance (W/m²)</th>
</tr>
</thead>
<tbody>
<tr>
<td>30</td>
<td>811</td>
</tr>
<tr>
<td>60</td>
<td>395</td>
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<tr>
<td>100</td>
<td>211</td>
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<tr>
<td>200</td>
<td>78</td>
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<td>300</td>
<td>31</td>
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<tr>
<td>400</td>
<td>11</td>
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* Measured with white LED M-TBAR. No Angle Changer applied

CONTINUOUS WORKING

DISTANCE

<table>
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<th>Distance (mm)</th>
<th>Irradiance (W/m²)</th>
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<td>3675</td>
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<td>60</td>
<td>1790</td>
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<tr>
<td>100</td>
<td>963</td>
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<tr>
<td>200</td>
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<td>300</td>
<td>140</td>
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<td>400</td>
<td>53</td>
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</tbody>
</table>

* Measured with white LED M-TBAR. No Angle Changer applied

OVERDRIVE MODE

**FRONT VIEW**

**SIDE VIEW**

<table>
<thead>
<tr>
<th>Power Supply</th>
<th>Length (mm)</th>
<th>Width (mm)</th>
<th>Thickness (mm)</th>
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</thead>
<tbody>
<tr>
<td>Light</td>
<td>64</td>
<td>31.5</td>
<td>21.5</td>
</tr>
<tr>
<td>Cable</td>
<td></td>
<td>length: 500mm</td>
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</table>

**Connector**

M12 5 pins
**MODULAR TINY M-TBAR**

**TECHNICAL DATA & ORDER REFERENCES**

<table>
<thead>
<tr>
<th>M-TBAR</th>
<th>LED NUMBER</th>
<th>COLOUR</th>
</tr>
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<tbody>
<tr>
<td>M-TBAR</td>
<td>4</td>
<td>WHI (white)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>630 (red)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>525 (green)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>470 (blue)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>850 (infrared)</td>
</tr>
</tbody>
</table>

**EXAMPLES:**
- Modular Tiny M-TBAR 4 LEDs white ➞ M-TBAR-4-WHI
- Modular Tiny M-TBAR 4 LEDs red ➞ M-TBAR-4-630

**ANGLE CHANGERS:**

**AC-TBAR**

<table>
<thead>
<tr>
<th>ANGLE</th>
<th>OPTION: POLARIZER</th>
</tr>
</thead>
<tbody>
<tr>
<td>N (narrow)</td>
<td>P1</td>
</tr>
<tr>
<td>M (medium)</td>
<td>POLARIZER ONLY</td>
</tr>
<tr>
<td>W (wide)</td>
<td>POLARIZER ONLY</td>
</tr>
<tr>
<td>L (line light)</td>
<td>POLARIZER ONLY</td>
</tr>
</tbody>
</table>

**EXAMPLES:**
- Narrow ➞ AC-TBAR-N
- Narrow with polariser ➞ AC-TBAR-N-P1
- Polariser only ➞ AC-TBAR-POL1

**ANGLE CHANGER COMBO:**

Ref: AC-TBAR-CO-SM

**CONTENT:**
- x1 AC-TBARN
- x1 AC-TBARM
- x1 AC-TBARW
- x1 AC-TBARL
- x1 AC-TBAR-POL1

**SWIVEL MOUNT:**

Ref: SWIVEL-MOUNT-T

Get more information:

www.tpl-vision.com