With more than 40 years experience in traffic management and control across some of the world’s busiest cities, Tyco Traffic & Transportation is renowned for its leading edge technologies.

LED traffic lanterns have become the lantern of choice for Local Councils and Governments looking for high light intensity, low power consumption and significantly lower maintenance costs. Tyco’s LED lanterns are standards compliant and the LED aspect modules are easy to retro fit into existing housings.

Built in high quality aluminium to the NSW Roads and Traffic Authority specification (RTA), Tyco’s 200mm, 300mm, roundel, arrow and pedestrian LED traffic lantern housings and aspect modules are now available in New Zealand, so make LED your choice.

Three brilliant reasons to choose LED.

There are many, many reasons why LED traffic lanterns from Tyco Traffic and Transportation are the superior choice. You’ll discover them as you make your way through this brochure. But experience suggests that it’s these three that resonate most with our customers:

- **Worry-free compatibility**
  - Compatible with existing RTA TSC/4 and TSC/3 type traffic controllers

- **Reduced costs and disruption**
  - The long life LED aspects reduce maintenance costs and intersection disruption associated with quartz-halogen and incandescent aspects as a result of the significantly longer service interval reducing traffic management, cherry picker and labour requirements
  - The reduced power consumption of LED reduces electrical power bills and reduces environmental impact

- **Unrivalled warranty**
  - 5 years 0% LED failure rate warranty
  - 10 years mechanical component warranty
  - 5 years ultra low light degradation warranty (light output maintained at above AS2144 requirements for 5 years).
LED traffic lanterns
The superior choice

The full story.

Incorporating leading edge technology, Tyco Traffic and Transportation’s range of LED traffic lanterns ensure reliable and efficient operation in even the most testing environments.

- NSW Roads and Traffic Authority (RTA) approved traffic lanterns
- Complies with the requirements of the Australian / NZ Traffic Signal Standard AS/NZS 2144:2002
- Latest generation long life LED technology with high intensity and low power consumption
- Lightweight aluminium alloy lantern body with UV/water immersion protective polycarbonate double-hinged doors
- New orientation tab system allows fast changing of the orientation of the arrow aspect without disturbing the aspect factory sealing
- Anti-theft M4 screw locking system on lantern door
- Self-contained IP65 aspects with UV protective polycarbonate front lens and base cover
- Aspect covers designed to diffuse the light and produce uniform illumination
- Additional clear hard coating on symbolic aspects lens to withstand abrasion
- No need for symbolic aspect masks since painted lens covers are used
- Advanced switching power supply without the need for a heavy transformer
- Extended operating voltage allows safe and stable light output up to 280V
- Extended operating temperature range between -20ºC to +60ºC
- Derating on electrical components and LEDs to achieve maximum operating life
- 24 hours, +65ºC ‘Burn in’ quality control process before shipment.
Lantern construction.

Tyco LED Traffic Lantern housings are available in one, two, three and four aspect models.

The main lantern bodies are one piece design, combined with cast aluminium alloy components, aluminium alloy panels and polycarbonate lantern doors.

Lantern body accessory options:
- Aluminium Target board
- Type A open and closed aluminium visors
- Galvanised mounting and linking straps

Tyco has RTA type approval certification for the following:
- 200mm vehicular roundel
- 300mm vehicular roundel
- 200mm vehicular arrow
- 300mm vehicular arrow
- 200mm 2 Aspect Pedestrian

<table>
<thead>
<tr>
<th># OF ASPECTS</th>
<th>ASPECT DIMENSION (MM)</th>
<th>HEIGHT (MM)</th>
<th>WIDTH (MM)</th>
<th>DEPTH (MM)</th>
<th>WEIGHT (KG)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>200</td>
<td>259</td>
<td>260</td>
<td>137</td>
<td>5</td>
</tr>
<tr>
<td>2</td>
<td>200 / PED</td>
<td>509</td>
<td>260</td>
<td>137</td>
<td>7</td>
</tr>
<tr>
<td>3</td>
<td>200</td>
<td>763</td>
<td>260</td>
<td>137</td>
<td>8</td>
</tr>
<tr>
<td>4</td>
<td>200</td>
<td>1017</td>
<td>260</td>
<td>137</td>
<td>10</td>
</tr>
<tr>
<td>3</td>
<td>300</td>
<td>1019</td>
<td>350</td>
<td>202</td>
<td>12</td>
</tr>
</tbody>
</table>

a Housing bodies can be strapped together to achieve bigger configurations; such as a 6 aspect (3 + 3), 5 aspect (3 + 2). Single aspect housings can be side mounted to other housing bodies.
b Also available without white border.
c Also available with louvers.
d Steel construction and available in different lengths.
e Certification is valid for 5 years from January 2008.
LED traffic lanterns
The superior choice

Aspect construction.

The aspects are self-contained IP65 units. The coloured optical lens and the black base cover of the aspect are made of UV protective polycarbonate material.

Tyco’s aspects are suitable for direct retrofit to many of the existing lantern bodies on the market utilising the unique adjustable orientation tab. The enclosed switching power supply in the aspect enables the weight of existing lanterns to be reduced when fitted with Tyco LED aspects.

Aspect models available:

<table>
<thead>
<tr>
<th>SIZE</th>
<th>TYPE</th>
<th>COLOURS</th>
<th>POWER (W)</th>
</tr>
</thead>
<tbody>
<tr>
<td>200</td>
<td>Vehicular Roundel</td>
<td>Red / Yellow / Green</td>
<td>13 / 15 / 15</td>
</tr>
<tr>
<td>300</td>
<td>Vehicular Roundel</td>
<td>Red / Yellow / Green</td>
<td>15 / 21 / 15</td>
</tr>
<tr>
<td>200</td>
<td>Vehicular Arrow</td>
<td>Red / Yellow / Green</td>
<td>8 / 8.5 / 6</td>
</tr>
<tr>
<td>300</td>
<td>Vehicular Arrow</td>
<td>Red / Yellow / Green</td>
<td>6.5 / 8.5 / 9.5</td>
</tr>
<tr>
<td>200</td>
<td>Pedestrian</td>
<td>Red Man Standing Green Man Walking</td>
<td>7 / 6</td>
</tr>
<tr>
<td>200</td>
<td>Cycle</td>
<td>Red / Yellow / Green / White¹</td>
<td>7 / 10 / 7 / 7</td>
</tr>
<tr>
<td>200</td>
<td>Bus (B)</td>
<td>Red¹ / Yellow¹ / Green¹ / White²</td>
<td>11 / 14 / 11 / 11</td>
</tr>
<tr>
<td>200</td>
<td>Tram (T)</td>
<td>Red¹ / Yellow¹ / Green¹ / White²</td>
<td>9 / 10 / 7 / 7</td>
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<tr>
<td>200</td>
<td>U-Turn (U)</td>
<td>Red¹ / Yellow¹ / Green¹ / White²</td>
<td>10 / 11 / 8 / 8</td>
</tr>
<tr>
<td>200</td>
<td>Emergency (E)</td>
<td>Red² / Yellow² / Green² / White²</td>
<td>10 / 11 / 8 / 8</td>
</tr>
</tbody>
</table>

¹ NATA laboratory tested, no RTA certificate sought, there is no material difference in design and construction
² Neither NATA nor RTA testing undertaken for these variants, there is no material difference in design and construction
³ Estimated figures as no production requests to date for this variant
**Specification details.**

Distribution of Luminous Intensity: Meets AS/NZS 2144:2002 section 3

EMC: Meets AS/NZS 2144:2002 clause 5.2.1.7

Material of lantern door: Black polycarbonate, UV stabilised

Material of aspect front lens: Tinted polycarbonate, UV stabilised

Material of aspect black cover: Black polycarbonate, UV stabilised

Symbolic aspect lens abrasion resistance: Meets ITE 2005 spec clause 6.4.5.2

Lantern weather resistance: IP35

Aspect weather resistance: IP65

Wire: Double insulated PVC cable

Operating Voltage Range: 100 ~ 280 VAC

Linear Dimming Voltage: 200 ~ 240 VAC

50% ‘Dimmed State’ Voltage: 100 ~ 200 VAC

Turn off voltage: <100 VAC

Progressive failure of LEDs (20% shut down): Meets AS/NZS 2144:2002 clause 6.4

Vibration: Meets IEC68-2-6

Signal switching response times: Meets AS/NZS 2144:2002 clause 6.3

Operating temperature range: –20°C ~ 60°C

Storage temperature range: –30°C ~ 75°C

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**Talk to us today.**

For more information on Tyco LED traffic lanterns or to arrange a meeting to discuss your specific requirements in more detail, please contact us. We’ll be happy to help.

Tyco
Traffic & Transportation
Keeping the world moving