Product datasheet

QTi DALI 2X14/24 DIM
QUICKTRONIC INTELLIGENT DALI DIM T5 | ECG dimmable DALI for FL 16 mm

Areas of application
- Suitable for use in emergency lighting systems as per EN 50172/DIN VDE 0108-100
- Installation in emergency lighting systems according to IEC 61347-2-3, appendix J
- Industry
- Open-plan offices, corridors and storage rooms
- Public buildings
- Sports halls and factories
- Strip lighting
- Shop lighting
- Suitable for luminaires of protection class I

Product family benefits
- System+ Guarantee available
- Easy integration in luminaire thanks to same dimensions like DALI GI ECG
- TouchDIM function for easy and inexpensive dimming of several ECGs
- Same luminous flux with direct and alternating current
- Dimming of amalgam lamps without flickering or reduced lifespan
- Automatic restart after lamp replacement

DALI product features
- Control via the DALI interface
- Compliance with the DALI Version-1 and IEC 60929
- Control input protected against overvoltage and polarity reversal (OSRAM ECG)

Touch DIM and Touch DIM Sensor function
- Manual dimming without controller and with standard switches
- Including memory function (double click) and soft start
Product family features

- Corridor function for direct connection of ECG to common motion sensor
- Corridor function with pre-programmed light program
- Touch DIM function for free parameterization of light value and turn on time
- Fit for SMART GRID for feedback of consumed mains power and lamp operating hours
- Fit for emergency function for automatic detection of emergency lighting by ECG
- Very low standby power consumption: < 0.2 W (A1 BAT)
- Lifetime: > 100,000 h (for T = 65 °C at Tc)
- Very high number of switching cycles: up to 300,000
- Dimming range: 1…100 % (3…100 % with compact fluorescent lamp)
- POWER2LAMP function for optimal matching of ECG power to lamp during lamp lifetime
- Line frequency: 0 Hz, 50…60 Hz, rectified AC
Technical data

Electrical data

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Input voltage AC</td>
<td>198…264 V</td>
</tr>
<tr>
<td>Nominal voltage</td>
<td>220…240 V</td>
</tr>
<tr>
<td>Mains frequency</td>
<td>50…60 Hz</td>
</tr>
<tr>
<td>Input voltage DC</td>
<td>154…276 V</td>
</tr>
<tr>
<td>Operating frequency</td>
<td>53…120 kHz</td>
</tr>
<tr>
<td>Max. ECG no. on circuit breaker 10 A (B)</td>
<td>12 ^[1]</td>
</tr>
<tr>
<td>Max. ECG no. on circuit breaker 16 A (B)</td>
<td>19 ^[1]</td>
</tr>
<tr>
<td>Inrush current</td>
<td>35 A</td>
</tr>
</tbody>
</table>

^[1] Type B

Light technical data

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Starting time</td>
<td>0.6 s ^[1]</td>
</tr>
</tbody>
</table>

^[1] Optimized preheat start

Dimensions & weight

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Length</td>
<td>423.0 mm</td>
</tr>
<tr>
<td>Width</td>
<td>30.0 mm</td>
</tr>
<tr>
<td>Height</td>
<td>21.0 mm</td>
</tr>
<tr>
<td>Mounting hole spacing, length</td>
<td>415.0 mm</td>
</tr>
<tr>
<td>Product weight</td>
<td>370.00 g</td>
</tr>
<tr>
<td>Cable cross-section, output side</td>
<td>0.5…1.5 / 0.5…1.0 mm² ^[1]</td>
</tr>
<tr>
<td>Cable cross-section, input side</td>
<td>0.5…1.5 / 0.5…1.0 mm² ^[1]</td>
</tr>
</tbody>
</table>

^[1] Solid leads / Flexible

Temperatures & operating conditions

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ambient temperature range</td>
<td>+10…+50 °C</td>
</tr>
</tbody>
</table>
Permitted rel. humidity during operation 5…85 %

Lifespan

ECG lifetime 100000 h ¹)

¹) At Tcases = 65°C at Tc point / 10% failure rate

Expected Lifetime

<table>
<thead>
<tr>
<th>Product name</th>
<th>Lamp group</th>
<th>ECG ambient temperature [ta]</th>
<th>Temperature at tc-point [°C]</th>
<th>Lifetime [h]</th>
</tr>
</thead>
<tbody>
<tr>
<td>QTi DALI 2X14/24 DIM</td>
<td>DULUX L 24 W</td>
<td>40</td>
<td>50</td>
<td>60</td>
</tr>
<tr>
<td></td>
<td>HE 14 W</td>
<td>ECG ambient temperature [ta]</td>
<td>40</td>
<td>50</td>
</tr>
<tr>
<td></td>
<td>HO 24 W</td>
<td>ECG ambient temperature [ta]</td>
<td>40</td>
<td>50</td>
</tr>
</tbody>
</table>

Additional product data

Suitable for lamp power (2 lamps) 14…24 W

Capabilities

Dimming interface DALI / Touch DIM / Touch DIM Sensor

Dimming range 1…100 % ¹)

Dimmable Yes

Overheating protection Power reduction and switch off at T > 75 °C at the tc point

Suitable for fixtures with prot. class I

End of lamp life safety shutdown EOL T.2

Max. cable length to lamp/LED module 1.0 m / 1.5 m

¹) Luminous flux

Certificates & standards

Approval marks – approval VDE / VDE-EMC / EL / EAC / RCM / CCC

Product datasheet

<table>
<thead>
<tr>
<th>EEI – Energy Label</th>
<th>A1 BAT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Protection class</td>
<td>I</td>
</tr>
<tr>
<td>Type of protection</td>
<td>IP20</td>
</tr>
</tbody>
</table>

Logistical data

| Commodity code | 850410809000 |

Wiring Diagram

Wiring diagram
Download Data

<table>
<thead>
<tr>
<th>File</th>
</tr>
</thead>
<tbody>
<tr>
<td>Addon Technical Information 502689_Frequent switching Quicktronic</td>
</tr>
<tr>
<td>Addon Technical Information 502785_ECG lifetime - QUICKTRONIC (DALI) DIM</td>
</tr>
<tr>
<td>Product Datasheet 321476_ATI QTi DALI 2x1424 DIM (G+GB)</td>
</tr>
<tr>
<td>Brochures 333874_Bochure � DALI partner</td>
</tr>
<tr>
<td>Brochures 335514_Applications and luminaires solutions</td>
</tr>
<tr>
<td>Certificates 335097_INOTEC</td>
</tr>
<tr>
<td>Certificates 335125_ENECVDE-Marks approval</td>
</tr>
<tr>
<td>Certificates 335135_Manufacturer’s declaration � Burning-in of fluorescent lamps</td>
</tr>
<tr>
<td>Certificates 335153_Manufacturer’s declaration � Low stand-by</td>
</tr>
<tr>
<td>Certificates 335154_Manufacturer’s declaration � EN 55015:2006+A1:2007 (300 MHz)</td>
</tr>
<tr>
<td>Certificates 335169_Manufacturer’s declaration � LampECG combinations: Frequent switching</td>
</tr>
</tbody>
</table>
Logistical Data

<table>
<thead>
<tr>
<th>Product code</th>
<th>Product description</th>
<th>Packaging unit (Pieces/Unit)</th>
<th>Dimensions (length x width x height)</th>
<th>Volume</th>
<th>Gross weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>4050300870861</td>
<td>QTi DALI 2X14/24 DIM</td>
<td>Shipping carton box 20</td>
<td>455 mm x 98 mm x 163 mm</td>
<td>7.27 dm³</td>
<td>7640.00 g</td>
</tr>
</tbody>
</table>

The mentioned product code describes the smallest quantity unit which can be ordered. One shipping unit can contain one or more single products. When placing an order, for the quantity please enter single or multiples of a shipping unit.

References / Links

For more information on the system guarantee and the terms and conditions of the guarantee visit

www.osram.com/system-guarantee

Disclaimer

Subject to change without notice. Errors and omission excepted. Always make sure to use the most recent release.
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<table>
<thead>
<tr>
<th>Product name</th>
<th>Lamp group</th>
<th>Nominal current</th>
<th>Nominal wattage + Power loss</th>
<th>Luminous flux at 35 °C</th>
<th>Number of lighting outlets</th>
</tr>
</thead>
<tbody>
<tr>
<td>QTi DALI 2X14/24 DIM</td>
<td>DULUX F 24 W</td>
<td>0.22 A</td>
<td>49.00 W</td>
<td>1700 lm</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>DULUX L 24 W</td>
<td>0.22 A</td>
<td>49.00 W</td>
<td>1800 lm</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>FC 22 W</td>
<td>0.22 A</td>
<td>49.00 W</td>
<td>1750 lm</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>HE 14 W</td>
<td>0.14 A</td>
<td>30.60 W</td>
<td>1200 lm</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>HO 24 W</td>
<td>0.22 A</td>
<td>49.30 W</td>
<td>1750 lm</td>
<td>2</td>
</tr>
</tbody>
</table>