

PRODUCT DATASHEET

QTi 2X21/39 DIM

QUICKTRONIC® INTELLIGENT DIM T5 | ECG dimmable 1...10 V for FL 16 mm



Areas of application

- Suitable for emergency installations
- Industry
- Open-plan offices, corridors and storage rooms
- Public buildings
- Suitable for luminaires of protection class I

Product benefits

- Same luminous flux with direct and alternating current
- Perfect lamp start for applications with motion sensors
- Dimming of amalgam lamps without flickering or reduced lifespan
- Very high efficiency thanks to cut-off technology
- Automatic restart after lamp replacement
- ECGs comply with MINERGIE standard due to very low standby consumption
- Configurable emergency power characteristics

Product features

- Control via 1...10 V interface
- Supply voltage: 220...240 V
- Line frequency: 0 Hz | 50 Hz | 60 Hz

- Line voltage: 198...264 V
- Dimming range: 1...100 % luminous flux
- Lamp start: within 0.6 s
- Lifetime: > 100,000 h (for T = 65 °C at T_c)
- Automatic shutdown of defective lamps and at end of life (EoL T.2)
- Energy Efficiency Index EEI: A1 BAT
- Overtemperature protection: Thermal management at high t_c temperatures
- Safety: to EN 61347-2-3
- Lamp operation: to EN 60929
- RI suppression: to EN 55015:2006+A1:2007+A2:2009/CISPR 15
- Line harmonics according to EN 61000-3-2
- Immunity according to EN 61547

TECHNICAL DATA

Electrical data

| | |
|--|------------------|
| Nominal wattage | 82.00 W |
| Nominal voltage | 220...240 V |
| Input voltage AC | 198...264 V |
| Input voltage DC | 154...276 V |
| Type of current | AC/DC |
| Inrush current | 45 A |
| Mains frequency | 50/60 Hz |
| Max. ECG no. on circuit breaker 10 A (B) | 8 ¹⁾ |
| Max. ECG no. on circuit breaker 16 A (B) | 13 ¹⁾ |
| Operating frequency | 44...120 kHz |

¹⁾ Type B

Light technical data

| | |
|---------------|-------|
| Starting time | 0.6 s |
|---------------|-------|

Dimensions & Weight

| | |
|--------------------------------------|---|
| Length | 425.00 mm |
| Mounting hole spacing, length | 415,0 mm |
| Width | 30.00 mm |
| Height | 21.00 mm |
| Cable cross-section, input side | 0.5...1.5 mm ² / 0,5...1,0 mm ² ¹⁾ |
| Cable cross-section, output side | 0.5...1.5 mm ² / 0,5...1,0 mm ² ¹⁾ |
| Wire preparation length, input side | 8.0...9.0 mm ²⁾ |
| Wire preparation length, output side | 8.0...9.0 mm ²⁾ |
| Product weight | 370.00 g |

¹⁾ Solid leads / Flexible

²⁾ Combi wiring

Colors & materials

| | |
|-----------------|-------|
| Casing material | Metal |
| Body material | Metal |

Temperatures & operating conditions

| | |
|--|------------------------|
| Ambient temperature range | +10...+50 °C |
| Maximum temperature at tc test point | 75 °C |
| Max.housing temperature in case of fault | 110 °C |
| Permitted rel. humidity during operation | 5...85 % ¹⁾ |

¹⁾ Maximum 56 days/year at 85 %

Lifespan

| | |
|--------------|------------------------|
| ECG lifetime | 100000 h ¹⁾ |
|--------------|------------------------|

¹⁾ At T_{case} = 65°C at T_c point / 10% failure rate

Capabilities

| | |
|--|---|
| Dimmable | Yes |
| Dimming interface | 1...10 V |
| Dimming range | 1...100 % ¹⁾ |
| Overheating protection | Power reduction and switch off at T > 75 °C at the tc point |
| Overload protection | Automatic switch off, reversible |
| Max. cable length to lamp/LED module | 1.0 m / 1.5 m |
| Suitable for fixtures with prot. class | I |
| Suitable for emergency lighting | Yes |
| End of lamp life safety shutdown | EOL T.2 |

¹⁾ Luminous flux






Certificates & Standards


| | |
|---------------------------|---|
| Approval marks – approval | VDE / VDE-EMC / EL / EAC / RCM / CCC |
| Standards | Acc. to EN 61347-2-3 / Acc. to EN 60929 / Acc. to EN 55015:2006 + A1:2007 / Acc. to EN 61000-3-2 / Acc. to EN 61547 |
| Type of protection | IP20 |
| Energy efficiency class | A1 |
| EEL – Energy Label | A1 BAT |

LOGISTICAL DATA

| | |
|------------------------------|--------------|
| Temperature range at storage | -40...+85 °C |
|------------------------------|--------------|

DOWNLOAD DATA

| Documents and certificates | | Document name |
|--|--|---|
|  | User Instruction / Safety Instructions | 334142_Technical guide - ECGs for T5-lamps |
|  | User Instruction / Safety Instructions | 493509_Technical application guide QUICKTRONIC Intelligent DALI DIM (GB) |
|  | User Instruction / Safety Instructions | 592412_EAC QTl T5 DIM |
|  | Declarations of conformity | 334957_Declaration of conformity |
|  | Certificates | 335097_INOTEC |
|  | Certificates | 335153_Manufacturer's declaration – Low stand-by |
|  | Certificates | 335154_Manufacturer's declaration – EN 55015:2006+A1:2007 (300 MHz) |
|  | Certificates | 554891_EAC PT family |
|  | Certificates | 334953_EMC-Marks approval |
|  | Certificates | 335135_Manufacturer's declaration – Burning-in of fluorescent lamps |
|  | Certificates | 335125_ENEC/VDE-Marks approval |
|  | Certificates | 335169_Manufacturer's declaration – Lamp/ECG combinations: Frequent switching |
|  | Certificates | 504208_VDE-EMC-CERTIFICATE QTl DALI DIM |

| CAD/BIM files | | Document name |
|--|-----------------|--------------------------|
|  | CAD data 3D PDF | 313416_423x30x21 1881282 |

LOGISTICAL DATA

| Product code | Packaging unit (Pieces/Unit) | Dimensions (length x width x height) | Gross weight | Volume |
|---------------|------------------------------|--------------------------------------|--------------|----------------------|
| 4050300870694 | Unpacked 1 | | 370.00 g | |
| 4050300870700 | Shipping box 20 | 455 mm x 98 mm x 163 mm | 7640.00 g | 7.27 dm ³ |

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.

DISCLAIMER

Subject to change without notice. Errors and omission excepted. Always make sure to use the most recent release.