

Fact Sheet

LIGHTING & LIGHTING CONTROL PRODUCTS

What is Lighting?

- Solid State Lighting (SSL) is a revolutionary new technology in which light-emitting diodes (LEDs) replace conventional incandescent and fluorescent lamps resulting in more energy efficient lighting applications.
- From a single bulb to an entire system, SSL lighting is an integral part of intelligent building networks.
- Typical lighting applications consist of the light source (light bulb, tube, panel), the light fixture (downlight, streetlight, troffer,) and the lighting control.

> In the Know 🐬

- More than 50% of the world's electricity consumption is used for lighting and our increasing population has put a tremendous strain on the world's electric grids.
- The global LED lighting market has grown 54% over the past year to \$25.4 billion, while at the same time the LED lighting penetration rate rose to 18.6%.
- Many countries around the world are banning incandescent lights due to high energy consumption driving the transition to more efficient alternatives like LED fixtures.
- LED lighting products provide significantly longer operating life making them well suited for areas that are not easily accessible.
- LEDs offer the capability of controlling a wider range of dimming and color adjustments.
- LED technology moves lighting from an electrical system (110/220 volts AC) to an electronic system (5-60V volts DC). This shift in technology, along with innovative interconnect solutions, offers unique opportunities to design smaller and more compact lighting solutions.
- TE is positioned as a leader in the design and development of LED interconnects and LED holders.

Applications for Lighting & Lighting Control Products

- Retrofit Lamps
- Indoor Fixtures
- Outdoor Fixtures
- Signage
- · Specialty Lighting
- Lighting Controls



- Architectural Lighting
- Consumer Lighting
- Street Lighting
- · Emergency Lighting
- · LED Retrofit Bulb Manufacturers
- LED Chip on Board Manufacturers
- Contract Manufacturers

> Design Navigator 7

TE provides interconnect solutions for retrofit lamps, indoor fixtures, outdoor fixtures, signage, specialty lighting and lighting controls appropriate for use in a broad range of operating environments, from private offices, to retail and commercial indoor and outdoor spaces.

With one of the largest connector portfolios on the market, TE offers a broad range of options to choose from to help accelerate your customer's path to market. Whether it's showing you our value-added solutions or designing a new product, our commitment to advanced engineering and world-class manufacturing delivers innovation to advance your lighting project.

TE's featured products include:

- LUMAWISE LED holders
- NECTOR Power Systems
- Inverted Thru Board Interconnect
- Filters
- Solid State Lighting Connectors
- Relays



- What are the voltage and current requirements for your lighting application?
- · Does your current solution need improvement in terms of light obstruction and shadowing?
- · How are you currently making power connections to your luminaire?
- Are you interested in reducing the time it takes to install or retrofit a lighting system?
- Does your design require a sealed connector system?
- Are you looking for an LED connection solution that can be easily integrated into your high volume SMT manufacturing setup?
- · Would you like to eliminate the time and cost of secondary assembly processes?

Max Curentaling (4), Cooled in Solution of **APPLICATIONS** Min Dieletic **Design Navigator** LIGHTING CONTROLS A Outoon Frances Secol IV LIGHTING A MOOON FINANCES I Dealing Level Wife to Board Wife-to-Wife Get more information on te.com by clicking on the product names below. Standards 1)2)3)4)5)6 4 125 AC 1500 AC -40 to +105 30-18 UL, CSA AMP CT & Mini CT Connectors UL. IEC 11 1500 AC -25 to +105 Economy Power II Connectors • • • 48 -40 to +250 26-10 • UL, CSA FASTON/Ultra-Fast Terminals & Splices 600 AC/DC 1500 AC 250 AC/DC -40 to +120 2 UL G13 Screwdown Jumper 2 250 AC/DC 1500 AC -40 to +120 UL Hermaphroditic Connectors UL High Power Inverted Thru Board Card Edge • • • 7 600 AC/DC 2200 AC -30 to +105 22-18 • UI IDC SSL Connectors 9 250 AC/DC 1500 AC -40 to +105 UL 22-18. Inverted Thru Board Card Edge Connectors 3 400 AC/DC 1500 AC -20 to +130 • • • UI 1500 AC -20 to +130 Inverted Thru Board Card Edge/Poke-In Connectors 400 AC/DC UL 70 AC/DC 1140 AC -40 to +105 28-24 UI Inverted Thru Board SMT Connectors LIGHT-N-LOK Connectors • 5 600 AC 2200 AC -40 to +95 18 • UL Micro MATE-N-LOK Connectors 5 250 AC 1500 AC -40 to +105 30-18 • UL 250 AC/DC 1500 AC -25 to +130 26-24 UL Micro Poke-In Connectors • 300 AC/DC 1600 AC -40 to +105 UL. IEC Mini Hermaphroditic Connector Mini Screwdown Jumper 3 250 AC/DC 1500 AC -40 to +105 UL Mini Universal MATE-N-LOK Connectors 9.5 600 AC 1500 AC -55 to +105 30-16 • UI Pivot Power RJ45 Connectors 60 AC/DC 1000 AC UL • PLASTI-GRIP Terminals & Splices 1000 AC/DC 105 max 22-10 • • UL. CSA • 300 AC/DC • UL, CSA PIDG Terminals & Splices 105 max 26-20 • 9 400 AC/DC 1800 AC -30 to +105 22-18 UL, IEC Releasable Poke-In Wire Connectors UL, IEC 1.5 150 AC -40 to +85 900 AC RJ45 Connectors SMT Poke-In Connectors • • • • 5 250 AC/DC 1500 AC -40 to +105 22-18 • • • UL 300 AC/DC varies* • • • 15 -40 to +110 30-10 • • • • UL, CSA, VDE, cUL UL, IEC 10 300 AC 1500 AC -40 to +105 30-18 2 2200 AC -30 to +105 600 AC/DC 18-16 UI -40 to +105 _UMAWISE Custom LED Holders varies' varies' varies LUMAWISE Z32 Holders Low Profile 2 60 DC -40 to +105 22-20 • • UL • 5 -40 to +105 LUMAWISE Z50 Holders with Optics Attach 300 DC 22-18 UL, IEC, Zhaga • -40 to +105 **LUMAWISE Z50 Optics Attachment Accessories** UL. IEC Scalable LUMAWISE LED Holder (1 & 2 piece • • 3 250 DC -40 to +105 22-18 • • -40 to +105 UL, IEC, Zhaga Z50 LUMAWISE LED Holders 300 DC 22-18 -55 to +85 UL 4.1 24 DC IP67 60 600 AC 1500 AC -40 to +105 30-10 • • UL Circular Plastic Connectors (CPC) 19 1500 AC -55 to +105 UL Commercial MATE-N-LOK Connectors 250 AC 30-14 IP65 CoolSplice Connectors • • • • 5 600 AC/DC -45 to +85 22-18 • • • UL NECTOR M Power System • • 20 400 AC 2500 AC -20 to +85 4.0-1.5 IP67 UL, IEC 250 AC/DC **NECTOR S Power System** • • 7 1500 AC -20 to +85 18 • • • IP67 UL. IEC 5 400 AC/DC 40 to +105 IP67 Universal MATE-N-LOK Connectors 19 600 AC 3000 AC -55 to +105 30-10 • UL. IEC IP57 60 600 AC 30-10 UV Resistant Circular Plastic Connectors (CPC) 1500 AC -40 to +105 IP67 UI 20 480 AC 2500 AC -45 to +85 ANSI C136.41 Compliant Dimming Receptacle UL 15 480 AC 120 AC Non-dimming Receptacle -40 to +105 cULus 400 600 AC/DC -40 to +85 22 UL 2Pro Hybrid Devices 100 500 AC -40 to +85 UL. IEC R-Line PolySwitch Devices 72 AC 26-18 3G com Series 250 AC 1500 AC -40 to +85 IP67 UL, IEC **FX Series** 2 250 AC 1800 AC -40 to +85 IP67 UL. IEC 20 250 AC 5000 AC -40 to +85 Power Rocker Switches 20 250 AC 1000 AC -20 to +85 IP40 UL 24 DC 500 AC -35 to +105 Tactile Switches May vary based on application and product selection **APPLICATIONS** Mounting Style Available with custom specifications - Canadian Standard Association **2345**6 - Tested to Canadian Standards by Underwriters' Corcom FB Series 5 / 277 AC UL, IEC -10 to +85 International Electrotechnical Commission mounting holes wire leads Spade - Underwriters' Laboratories VDE - Verband Deutscher Elektroingenieure Zhaga - Standard for Interchangeable LED Light Sources Q Series 20 / 250 AC -10 to +85 terminals. Wire UL, IEC

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