

CERTIFICATE OF COMPLIANCE

Certificate Number E60645
Report Reference E60645-20141222
Date 2022-May-30

Issued to: Tyco Electronics France SAS
3 rue Jean Perrin
Chassieu 69680 FR

**This is to certify that
representative samples of**

TERMINAL BLOCKS - COMPONENT
See Addendum Page for Product Designation(s).

Have been investigated by UL in accordance with the component requirements in the Standard(s) indicated on this Certificate. UL Recognized components are incomplete in certain constructional features or restricted in performance capabilities and are intended for installation in complete equipment submitted for investigation to UL LLC.

Standard(s) for Safety: CAN/CSA C22.2 No. 158-10 and UL 1059, Terminal Blocks

Additional Information: See the UL Online Certifications Directory at <https://iq.ulprospector.com> for additional information

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Only those products bearing the UL Recognized Component Mark should be considered as being UL Certified and covered under UL's Follow-Up Services.

Look for the UL Recognized Component Mark on the product.



Bruce Mahrenholz, Director North American Certification Program

UL LLC

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This is to certify that representative samples of the product as specified on this certificate were tested according to the current UL requirements

Recognized Component - Spring type Terminal Blocks: Series SNK:
Cat. No(s). ZDK followed by 2.5 or 4, followed by 22, followed by BL, OR, YL, GN, RD, PR, BR, WH, BK or blank.

Recognized Component - Spring type Terminal Blocks: Series SNK:
Cat. No(s). ZD followed by 2.5, followed by -11 or -22, followed by BL, OR, YL, GN, RD, PR, BR, WH, BK or blank.

Recognized Component - Spring type Terminal Blocks: Series SNK:
Cat. No(s). ZDK followed by 2.5, followed by -11 or -21 or -22 or -D1 or -D2 followed by BL, OR, YL, GN, RD, PR, BR, WH, BK or blank.

Recognized Component - Spring type Terminal Blocks: Series SNK:
Cat. No(s). ZDK followed by 2.5, followed by -11 or -22, followed by -D3000, followed by BL, OR, YL, GN, RD, PR, BR, WH, BK, or blank.

Recognized Component - Spring type Plugs: Series SNK:
*Cat. No(s). CDK followed by 2.5 or 4, followed by BL, OR, YL, GN, RD, PR, BR, WH, BK or blank, may be followed by E, may be followed by 2 to 15.

Recognized Component - Spring type Plugs: Series SNK:
Cat. No(s). CDK followed by 2.5, followed by -J or -2P-J or blank, followed by BL, OR, YL, GN, RD, PR, BR, WH, BK or blank, may be followed by -E, may be followed by 2 to 15.

Recognized Component - plug, Series SNK: Cat. No. CD-D3000, followed by E, followed by BL, OR, YL, GN, RD, PR, BR, WH, BK or blank.

Recognized Component - Spring type Plugs for Protective Conductor Terminal Blocks, Series SNK:
Cat. No(s). CDK followed by 2.5, followed by -PE or -PE-E or -2P-J-PE or -2P-J-PE-E or J-PE or J-PE-E, may be followed by 2 to 15.

Recognized Component - Screw type Terminal Blocks: Series SNK:
Cat. No(s). ZDS followed by 4, followed by 22, may be followed by R1, followed by BL, OR, YL, GN, RD, PR, BR, WH, BK or blank.

Recognized Component - Screw type Plugs: Series SNK:
Cat. No(s). CDS followed by 4, followed by R1 or blank, followed by BL, OR, YL, GN, RD, PR, BR, WH, BK or blank, may be followed by E, may be followed by 2 to 15.

Recognized Component - Spring type, Protective Conductor Terminal Blocks: Series SNK: Cat. No(s). ZD followed by 2.5, followed by -22, followed by -PE.



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Recognized Component - Spring type, Protective Conductor Terminal Blocks: Series SNK: Cat. No(s). ZDK followed by 2.5, followed by -11 or -22 or -D1 or -D2, followed by -PE.



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File E60645
Project 4786622711

December 22, 2014

REPORT

On

COMPONENT - TERMINAL BLOCKS

TYCO ELECTRONICS FRANCE S.A.S
CHASSIEU FRANCE

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DESCRIPTION

PRODUCT COVERED:

USR and CNR Recognized Component - Spring type Terminal Blocks: Series SNK: Cat. No(s). ZDK followed by 2.5 or 4, followed by 22, followed by BL, OR, YL, GN, RD, PR, BR, WH, BK or blank.

USR and CNR Recognized Component - Spring type Terminal Blocks: Series SNK: Cat. No(s). ZD followed by 2.5, followed by -11 or -22, followed by BL, OR, YL, GN, RD, PR, BR, WH, BK or blank.

USR and CNR Recognized Component - Spring type Terminal Blocks: Series SNK: Cat. No(s). ZDK followed by 2.5, followed by -11 or -21 or -22 or -D1 or -D2 followed by BL, OR, YL, GN, RD, PR, BR, WH, BK or blank.

USR and CNR Recognized Component - Spring type Terminal Blocks: Series SNK: Cat. No(s). ZDK followed by 2.5, followed by -11 or -22, followed by -D3000, followed by BL, OR, YL, GN, RD, PR, BR, WH, BK, or blank.

USR and CNR Recognized Component - Spring type Plugs: Series SNK: *Cat. No(s). CDK followed by 2.5 or 4, followed by BL, OR, YL, GN, RD, PR, BR, WH, BK or blank, may be followed by E, may be followed by 2 to 15.

USR and CNR Recognized Component - Spring type Plugs: Series SNK: Cat. No(s). CDK followed by 2.5, followed by -J or -2P-J or blank, followed by BL, OR, YL, GN, RD, PR, BR, WH, BK or blank, may be followed by -E, may be followed by 2 to 15.

USR and CNR Recognized Component - plug, Series SNK: Cat. No. CD-D3000, followed by E, followed by BL, OR, YL, GN, RD, PR, BR, WH, BK or blank.

USR and CNR Recognized Component - Spring type Plugs for Protective Conductor Terminal Blocks, Series SNK: Cat. No(s). CDK followed by 2.5, followed by -PE or -PE-E or -2P-J-PE or -2P-J-PE-E or J-PE or J-PE-E, may be followed by 2 to 15.

USR and CNR Recognized Component - Screw type Terminal Blocks: Series SNK: Cat. No(s). ZDS followed by 4, followed by 22, may be followed by R1, followed by BL, OR, YL, GN, RD, PR, BR, WH, BK or blank.

USR and CNR Recognized Component - Screw type Plugs: Series SNK: Cat. No(s). CDS followed by 4, followed by R1 or blank, followed by BL, OR, YL, GN, RD, PR, BR, WH, BK or blank, may be followed by E, may be followed by 2 to 15.

USR and CNR Recognized Component - Spring type, Protective Conductor Terminal Blocks: Series SNK: Cat. No(s). ZD followed by 2.5, followed by -22, followed by -PE.

USR and CNR Recognized Component - Spring type, Protective Conductor Terminal Blocks: Series SNK: Cat. No(s). ZDK followed by 2.5, followed by -11 or -22 or -D1 or -D2, followed by -PE.

GENERAL CHARACTER AND USE:

The terminal blocks covered by this Report are intended for use in the following applications and within the ratings specified.

The terminal blocks consist of two halves as tabulated below with plug tab consisting of the crimp terminals and the terminal block consisting of the push-in terminals. These devices as tabulated below are not evaluated for use with any other mating connectors.

| Plug | Terminal block |
|----------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------|
| CD-D3000, followed by E, followed by BL, OR, YL, GN, RD, PR, BR, WH, BK or blank | ZDK followed by 2.5, followed by -11 or -22 followed by -D3000, followed by BL, OR, YL, GN, RD, PR, BR, WH, BK, or blank |

RATINGS:

Application -

Commercial appliances (such as business and EDP equipment, etc.)

General industrial (such as motor controllers, pushbutton stations, etc.)

Terminal Type for series ZDK and CDK -

| | |
|---------------------------------------------------|---------------------------------------------------|
| Front | Back |
| Push-In Type (Wire Secured by Spring Type Action) | Push-In Type (Wire Secured by Spring Type Action) |

Terminal Type for series ZDS and CDS -

| | |
|------------|------------|
| Front | Back |
| Screw type | Screw type |

Terminal Type for series ZD -

| | |
|--------------------------------------|--------------------------------------|
| Front | Back |
| Pin terminals for Push-In Type Plugs | Pin terminals for Push-In Type Plugs |

| Cat. Nos. | Line | Load |
|----------------------------------------------------------------------------------------------------|-------|--------------|
| ZDK followed by 2.5, followed by -11 or -22, followed by -D3000 mated with CD-D3000, followed by E | Crimp | Push-in Type |

Type Wiring - Factory and Field wiring.

Ratings:

| Cat. No. | 1 cond. Wire Range AWG | 2 cond. Wire Range AWG (2) | Wire Type, Cu (1) | F W | Torque [N·m] | Voltage V ac | 1 cond. Current A | 2 cond. Current A | UG | CA |
|---------------------------------------------------------------------------------|---------------------------------|----------------------------------------|----------------------------|----------|-----------------|-----------------|-------------------------|----------------------|-------------------|-----------------------|
| ZDS4-22-R1, Plugs: CDS4-R1, CDS4-E | 24-10 | 24-16 | SOL/ STR | 2 | 0.5- 0.7 | 300 600 | 28 5 | 20 5 | B,C D# | 2 (105), 4 |
| ZDS4-22, Plugs: CDS4, CDS4-E | 24-10 | 24-16 | SOL/ STR | 2 | 0.5- 0.7 | 300 600 | 28 5 | 20 5 | B,C D# | 2 (105), 4 |
| ZDK2.5-22, Plugs: CDK2.5, CDK2.5-E | 26-12 | N/A | SOL/ STR | 2 | N/A | 600 | 22 5 | N/A | B,C D# | 2 (105), 4 |
| ZDK4-22, Plugs: CDK4, CDK4-E | 26-10 | N/A | SOL/ STR | 2 | N/A | 600 | 30 5 | N/A | B,C D# | 2 (105), 4 |
| ZD2.5-11, ZD2.5-22, ZDK2.5-11, ZDK2.5-21, ZDK2.5-D2, ZDK2.5-D1 | 26-12 | N/A | SOL/ STR | 2 | N/A | 600 | 20 5 | N/A | B,C D# | 2 (105), 4 |
| ZDK2.5-11- D3000, ZDK2.5-22- D3000, | 26-12 | N/A | SOL/ STR | 2 | N/A | 600 | 15 5 | N/A | B,C D# | 2 (105), 4 |
| ZD2.5-22-PE, ZDK2.5-11-PE, ZDK2.5-22-PE, ZDK2.5-D1-PE, ZDK2.5-D2-PE | 26-12 | N/A | SOL/ STR | 2 | N/A | N/A | N/A | N/A | B,C D# | 2 (105), 4 |

| Cat. No. | 1 cond. Wire Range AWG | 2 cond. Wire Range AWG (2) | Wire Type, Cu (1) | F W | Torque [N·m] | Voltage V ac | 1 cond. Current A | 2 cond. Current A | UG | CA |
|--------------------------------------------------------------------------------------------------------------------|---------------------------------|----------------------------------------|----------------------------|--------|-----------------|-----------------|-------------------------|----------------------|-----------|---------------|
| Plugs: CDK2.5-J, CDK2.5-2P-J, CDK2.5-J-E, CDK2.5-2P-J-E | 26-12 | N/A | SOL/ STR | 2 | N/A | 600 | 20 | N/A | B,C | 2 (105), 4 |
| | | | | | | | 5 | | D# | |
| Plugs: CD-D3000, CD-D3000-E | 28-14 | N/A | SOL/ STR/ | 2 | N/A | 600 | 15 | N/A | B,C | 2 (105), 4 |
| | | | | | | | 5 | | D# | |
| Plugs: CDK2.5-PE, CDK2.5-PE-E, CDK2.5-2P-J- PE, CDK2.5- 2P-J-PE-E, CDK2.5-J-PE, CDK2.5-J-PE-E | 26-12 | N/A | SOL/ STR | 2 | N/A | N/A | N/A | N/A | B,C D# | 2 (105), 4 |

Note 1 - max SOL wire is 10 AWG.

Note 2 - 2 conductors may only be combined with the same wire size.

Note # - These limited ratings are applicable to a terminal block for use in or with industrial control equipment whereby the load on any single circuit of the terminal block does not exceed 15 A at 51-150 V, 10 A at 151-300 V, or 5 A at 301-600 V, or the maximum ampere rating, whichever is less.

NOMENCLATURE

ZDK range

| ZDK | 2.5 | -22 | blank | -BK |
|-----|-----|-----|-------|-----|
| A | B | C | D | E |

A - Series designator - Pluggable, spring type terminal block.

B - Rated section designator:

| | | |
|---------------------|-----|---|
| Rated cross section | 2.5 | 4 |
| [mm ²] | 2.5 | 4 |

C - Number of clamping unit's designator:

- 11 - one spring type clamping unit and one pluggable pin at the end of current bar for connection with Spring Plugs,
- 22 - two spring type clamping units and two pluggable pins at the end of current bar for connection with Spring Plugs,
- 21 - two spring type clamping units and one pluggable pin at the end of current bar for connection with Spring Plugs,
- D1 - Double Deck with interconnection (one potential),
- D2 - Double Deck without interconnection (two potentials).

*

D - Terminal type designator:

- PE - Protective Conductor Terminal Blocks,
- blank - Terminal Blocks for Spring type Plugs.
- **D3000 - Terminal Blocks for CD-D3000 type Plugs.**

E - Body color:

- BL - blue
- OR - orange
- YL - yellow
- GN - green
- RD - red
- PR - purple
- BR - brown
- WH - white
- BK - black
- blank - grey

NOMENCLATURE

*

Plugs for ZD and ZDK range.

Series ZD and ZDK include the following model no of Plugs: CDK2.5, CDK2.5-E, CDK2.5-J, CDK2.5-2P-J, CDK2.5-J-E, CDK2.5-2P-J-E, CDK2.5-PE, CDK2.5-PE-E, CDK2.5-2P-J-PE, CDK2.5-2P-J-PE-E, CDK2.5-J-PE, CDK2.5-J-PE-E, CDK4, CDK4-E.

Example for CDK2.5-J-E-BK-2:

| | | | | | | |
|-----|-----|----|-------|-----|----|----|
| CDK | 2.5 | -J | blank | -BK | -E | -2 |
| A | B | C | D | E | F | G |

A - Series designator- Spring type plug

B - Rated section designator:

| | | |
|---------------------|-----|---|
| Rated cross section | 2.5 | 4 |
| [mm ²] | 2.5 | 4 |

C - type of plug:

- Blank - plug with one spring type clamping unit, without jumper housing,
- J - plug with one spring type clamping unit, with housing for a jumper,
- 2P-J - plug with two spring type clamping units, with housing for a jumper,

D - type of plug:

- PE - Plug for Protective Conductor Terminal Blocks,
- blank - Plug for feedthrough Terminal Blocks.

E - Body color:

- BL - blue
- OR - orange
- YL - yellow
- GN - green
- RD - red
- PR - purple
- BR - brown
- WH - white
- BK - black
- blank - grey

F - type of plug:

- Blank - open side, construction with pins on the housing,
- E - provided with cover, construction without pins on the housing,

*

G - option of clipping from 2 to 15 plugs together to have them pre-assembled as one piece.

NOMENCLATURE

ZDS range

| | | | | |
|-----|---|-----|-----|-----|
| ZDS | 4 | -22 | -R1 | -BL |
| A | B | C | D | E |

A - Series designator - Pluggable, screw type terminal block.

B - Rated section designator:

| | |
|---------------------|---|
| Rated cross section | 4 |
| [mm ²] | 4 |

C - Number of poles:

-22 - 2 connections spring + 2 connections pluggable

D - Terminal block type:

Blank - open side, pitch is 5mm

-R1 - provided with cover, pitch is 6mm

E - Body color:

- BL - blue
- OR - orange
- YL - yellow
- GN - green
- RD - red
- PR - purple
- BR - brown
- WH - white
- BK - black
- blank - grey

NOMENCLATURE

Plugs for ZDS range

| | | | | | |
|-----|---|------------|------------|-----------|----------|
| CDS | 4 | -R1 | -BL | -E | -10 |
| A | B | C | D | E | F |

A - Series designator - Screw type plug.

B - Rated section designator:

| | |
|---------------------------|---|
| Rated cross section | 4 |
| [mm ²] | 4 |

C - type of plug:

- Blank - open side, construction with pins, pitch is 5 mm,
*
- R1 - provided with cover, construction with pins, pitch is 6 mm.

D - Body color:

- BL - blue
- OR - orange
- YL - yellow
- GN - green
- RD - red
- PR - purple
- BR - brown
- WH - white
- BK - black
- blank - grey

E - type of plug:

- **Blank - open side, construction with pins on the housing,**
- **E - provided with cover, construction without pins on the housing.**

F - option of clipping from 2 to 15 plugs together.