

**ZSI 2.5****Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

[www.weidmueller.com](http://www.weidmueller.com)**Product image**

In some applications it is useful to protect the feed through connection with a separate fuse. Fuse terminal blocks are made up of one terminal block bottom section with a fuse insertion carrier. The fuses vary from pivoting fuse levers and pluggable fuse holders to screwable closures and flat plug-in fuses.

**General ordering data**

|            |                                                                                                                           |
|------------|---------------------------------------------------------------------------------------------------------------------------|
| Version    | Z-series, Fuse terminal, Rated cross-section: 2.5 mm <sup>2</sup> , Tension-clamp connection, dark beige, Direct mounting |
| Order No.  | <a href="#">1616400000</a>                                                                                                |
| Type       | ZSI 2.5                                                                                                                   |
| GTIN (EAN) | 4008190196592                                                                                                             |
| Qty.       | 50 pc(s).                                                                                                                 |

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## Technical data

## Dimensions and weights

|                          |            |                |            |
|--------------------------|------------|----------------|------------|
| Depth                    | 73 mm      | Depth (inches) | 2.874 inch |
| Depth including DIN rail | 74 mm      | Height         | 79.5 mm    |
| Height (inches)          | 3.13 inch  | Width          | 7.9 mm     |
| Width (inches)           | 0.311 inch | Net weight     | 19.54 g    |

## Temperatures

|                                  |                |                                  |        |
|----------------------------------|----------------|----------------------------------|--------|
| Storage temperature              | -25 °C...55 °C | Continuous operating temp., min. | -50 °C |
| Continuous operating temp., max. | 120 °C         |                                  |        |

## Material data

|                           |       |        |            |
|---------------------------|-------|--------|------------|
| Material                  | Wemid | Colour | dark beige |
| UL 94 flammability rating | V-0   |        |            |

## System specifications

|                                     |                                                                                                               |                               |     |
|-------------------------------------|---------------------------------------------------------------------------------------------------------------|-------------------------------|-----|
| Version                             | Tension-clamp connection, Fuse cartridge, Without LED, for plug-in cross-connector, One end without connector | End cover plate required      | Yes |
| Number of potentials                | 1                                                                                                             | Number of levels              | 1   |
| Number of clamping points per level | 2                                                                                                             | Number of potentials per tier | 1   |
| Levels cross-connected internally   | No                                                                                                            | PE connection                 | No  |
| Rail                                | TS 35                                                                                                         | N-function                    | No  |
| PE function                         | No                                                                                                            | PEN function                  | No  |

## Additional technical data

|                             |         |                     |                 |
|-----------------------------|---------|---------------------|-----------------|
| Explosion-tested version    | No      | Installation advice | Direct mounting |
| Number of similar terminals | 1       | Open sides          | right           |
| Type of mounting            | Snap-on |                     |                 |

## CSA rating data

|                               |                 |                               |        |
|-------------------------------|-----------------|-------------------------------|--------|
| Certificate No. (CSA)         | 200039-1 152892 | Current size B (CSA)          | 15 A   |
| Current size C (CSA)          | 15 A            | Current size D (CSA)          | 15 A   |
| Voltage size B (CSA)          | 600 V           | Voltage size C (CSA)          | 600 V  |
| Voltage size D (CSA)          | 150 V           | Wire cross section max. (CSA) | 12 AWG |
| Wire cross section min. (CSA) | 26 AWG          |                               |        |

## Conductors for clamping (additional connection)

|                      |     |                                        |                          |
|----------------------|-----|----------------------------------------|--------------------------|
| Connection direction | top | Connection type, additional connection | Tension-clamp connection |
|----------------------|-----|----------------------------------------|--------------------------|

## Conductors for clamping (rated connection)

|                                          |                      |
|------------------------------------------|----------------------|
| Blade size                               | 0.6 x 3.5 mm         |
| Clamping range, max.                     | 4 mm <sup>2</sup>    |
| Clamping range, min.                     | 0.13 mm <sup>2</sup> |
| Connection cross-section, stranded, max. | 4 mm <sup>2</sup>    |
| Connection cross-section, stranded, min. | 0.5 mm <sup>2</sup>  |
| Connection direction                     | Inclined / angled    |

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**Technical data**

|                                                                                         |                                        |         |                      |
|-----------------------------------------------------------------------------------------|----------------------------------------|---------|----------------------|
| Gauge to IEC 60947-1                                                                    | A3                                     |         |                      |
| Number of connections                                                                   | 2                                      |         |                      |
| Stripping length                                                                        | 10 mm                                  |         |                      |
| Tube length for wire-end ferrule with plastic collar DIN 46228/4                        | Cross-section for conductor connection | nominal | 0.5 mm <sup>2</sup>  |
|                                                                                         | Tube length                            | min.    | 6 mm                 |
|                                                                                         |                                        | max.    | 10 mm                |
|                                                                                         | Cross-section for conductor connection | nominal | 0.75 mm <sup>2</sup> |
|                                                                                         | Tube length                            | min.    | 6 mm                 |
|                                                                                         |                                        | max.    | 12 mm                |
|                                                                                         | Cross-section for conductor connection | nominal | 1 mm <sup>2</sup>    |
|                                                                                         | Tube length                            | min.    | 6 mm                 |
|                                                                                         |                                        | max.    | 12 mm                |
|                                                                                         | Cross-section for conductor connection | nominal | 1.5 mm <sup>2</sup>  |
|                                                                                         | Tube length                            | min.    | 8 mm                 |
|                                                                                         |                                        | max.    | 12 mm                |
| Tube length for wire-end ferrule without plastic collar DIN 46228/1                     | Cross-section for conductor connection | nominal | 0.5 mm <sup>2</sup>  |
|                                                                                         | Tube length                            | nominal | 10 mm                |
|                                                                                         | Cross-section for conductor connection | nominal | 0.75 mm <sup>2</sup> |
|                                                                                         | Tube length                            | nominal | 10 mm                |
|                                                                                         | Cross-section for conductor connection | nominal | 1 mm <sup>2</sup>    |
|                                                                                         | Tube length                            | nominal | 10 mm                |
|                                                                                         | Cross-section for conductor connection | nominal | 1.5 mm <sup>2</sup>  |
|                                                                                         | Tube length                            | min.    | 10 mm                |
|                                                                                         |                                        | max.    | 12 mm                |
|                                                                                         | Cross-section for conductor connection | nominal | 2.5 mm <sup>2</sup>  |
|                                                                                         | Tube length                            | min.    | 10 mm                |
|                                                                                         |                                        | max.    | 12 mm                |
| Type of connection                                                                      | Tension-clamp connection               |         |                      |
| Type of connection 2                                                                    | Tension-clamp connection               |         |                      |
| Wire connection cross section AWG, max.                                                 | AWG 12                                 |         |                      |
| Wire connection cross section AWG, min.                                                 | AWG 26                                 |         |                      |
| Wire connection cross section, finely stranded, max.                                    | 4 mm <sup>2</sup>                      |         |                      |
| Wire connection cross section, finely stranded, min.                                    | 0.5 mm <sup>2</sup>                    |         |                      |
| Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/1, max. | 2.5 mm <sup>2</sup>                    |         |                      |
| Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/1, min. | 0.5 mm <sup>2</sup>                    |         |                      |
| Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/4, max. | 2.5 mm <sup>2</sup>                    |         |                      |
| Wire connection cross-section, finely stranded with wire-end ferrules DIN 46228/4, min. | 0.5 mm <sup>2</sup>                    |         |                      |
| Wire connection cross-section, solid core, max.                                         | 4 mm <sup>2</sup>                      |         |                      |
| Wire connection cross-section, solid core, min.                                         | 0.5 mm <sup>2</sup>                    |         |                      |

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## Technical data

## Display element

|         |       |                               |       |
|---------|-------|-------------------------------|-------|
| Current | 6.3 A | Type of voltage for indicator | AC/DC |
|---------|-------|-------------------------------|-------|

## Fuse terminals

|                                                                                    |                       |                                                                                  |                       |
|------------------------------------------------------------------------------------|-----------------------|----------------------------------------------------------------------------------|-----------------------|
| Cartridge fuse                                                                     | G-Si. 5 x 20          | Current                                                                          | 6.3 A                 |
| Display                                                                            | Without LED           | Fuse holder (cartridge holder)                                                   | Pivoting              |
| Operating voltage, max.                                                            | 500 V                 | Power loss for overload and short-circuit protection for a composite arrangement | 1.6 W at 6.3 A @ 37°C |
| Power loss for overload and short-circuit protection for an individual arrangement | 2.5 W at 6.3 A @ 30°C | Power loss for short-circuit protection only for a composite arrangement         | 2.5 W at 6.3 A @ 34°C |
| Power loss for short-circuit protection only for an individual arrangement         | 4.0 W at 6.3 A @ 59°C | Type of voltage for indicator                                                    | AC/DC                 |

## General

|                                         |                 |                                         |        |
|-----------------------------------------|-----------------|-----------------------------------------|--------|
| Installation advice                     | Direct mounting | Rail                                    | TS 35  |
| Standards                               | IEC 60947-7-3   | Wire connection cross section AWG, max. | AWG 12 |
| Wire connection cross section AWG, min. | AWG 26          |                                         |        |

## Rating data

|                                     |                     |                                              |         |
|-------------------------------------|---------------------|----------------------------------------------|---------|
| Rated cross-section                 | 2.5 mm <sup>2</sup> | Rated voltage                                | 500 V   |
| Rated voltage to adjoining terminal | 500 V               | Rated DC voltage                             | 500 V   |
| Rated current                       | 6.3 A               | Current at maximum wires                     | 6.3 A   |
| Standards                           | IEC 60947-7-3       | Volume resistance according to IEC 60947-7-x | 1.33 mΩ |
| Rated impulse withstand voltage     | 6 kV                | Power loss in accordance with IEC 60947-7-x  | 0.77 W  |
| Pollution severity                  | 3                   |                                              |         |

## UL rating data

|                                         |        |                                         |        |
|-----------------------------------------|--------|-----------------------------------------|--------|
| Certificate No. (UR)                    | E60693 | Conductor size Factory wiring max. (UR) | 12 AWG |
| Conductor size Factory wiring min. (UR) | 26 AWG | Conductor size Field wiring max. (UR)   | 12 AWG |
| Conductor size Field wiring min. (UR)   | 26 AWG | Current size C (UR)                     | 10 A   |
| Voltage size C (UR)                     | 300 V  |                                         |        |

## Classifications

|             |             |             |             |
|-------------|-------------|-------------|-------------|
| ETIM 6.0    | EC000899    | ETIM 7.0    | EC000899    |
| ETIM 8.0    | EC000899    | ETIM 9.0    | EC000899    |
| ECLASS 9.0  | 27-14-11-16 | ECLASS 9.1  | 27-14-11-16 |
| ECLASS 10.0 | 27-14-11-16 | ECLASS 11.0 | 27-14-11-16 |
| ECLASS 12.0 | 27-14-11-16 | ECLASS 13.0 | 27-25-01-13 |
| ECLASS 14.0 | 27-25-01-13 |             |             |

## Environmental Product Compliance

|                        |                             |
|------------------------|-----------------------------|
| RoHS Compliance Status | Compliant without exemption |
| REACH SVHC             | No SVHC above 0.1 wt%       |

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## Technical data

## Important note

|                     |                                                                                  |
|---------------------|----------------------------------------------------------------------------------|
| Product information | The voltage depends on the selected fuse element or the selected indicator light |
|---------------------|----------------------------------------------------------------------------------|

## Approvals

Approvals



|                       |            |
|-----------------------|------------|
| ROHS                  | Conform    |
| UL File Number Search | UL Website |
| Certificate No. (UR)  | E60693     |

## Downloads

|                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|---------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Approval/Certificate/Document of Conformity | <a href="#">CB Test Certificate</a><br><a href="#">CB Certificate</a><br><a href="#">Llyods Register Certificate</a><br><a href="#">RINA Certificate</a><br><a href="#">CB Certificate</a><br><a href="#">CB Certificate</a><br><a href="#">CB Certificate</a><br><a href="#">DNV Certificate</a><br><a href="#">Declaration of Conformity</a><br><a href="#">UKCA declaration of conformity</a><br><a href="#">Confirmation of Standards EN 45545-2_2020-10</a> |
| Engineering Data                            | <a href="#">CAD data – STEP</a>                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| User Documentation                          | <a href="#">StorageConditionsTerminalBlocks</a><br><a href="#">User Manual Z-Series</a>                                                                                                                                                                                                                                                                                                                                                                          |
| Catalogues                                  | <a href="#">Catalogues in PDF-format</a>                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Brochures                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |

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## Drawings

