

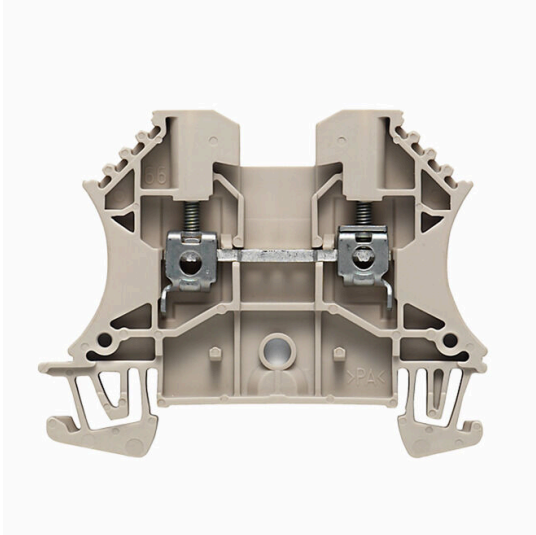
**WDU 2.5 HV****Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com

**Product image**

To feed through power, signal, and data is the classical requirement in electrical engineering and panel building. The insulating material, the connection system and the design of the terminal blocks are the differentiating features. A feed-through terminal block is suitable for joining and/or connecting one or more conductors. They could have one or more connection levels that are on the same potential or insulated against one another.

**General ordering data**

|            |   |
|------------|---|
| Version    | Feed-through terminal block, Screw connection, dark beige, 2.5 mm <sup>2</sup> , 24 A, 1000 V, Number of connections: 2 |
| Order No.  | <a href="#">1412950000</a>  |
| Type       | WDU 2.5 HV  |
| GTIN (EAN) | 4050118237528   |
| Qty.       | 100 items   |

## WDU 2.5 HV

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## Technical data

## Approvals

Approvals



ROHS Conform

## Dimensions and weights

|            |         |                 |             |
|------------|---------|-----------------|-------------|
| Depth      | 46.5 mm | Depth (inches)  | 1.8307 inch |
| Height     | 60 mm   | Height (inches) | 2.3622 inch |
| Width      | 5.1 mm  | Width (inches)  | 0.2008 inch |
| Net weight | 6.07 g  |                 |             |

## Temperatures

|                                  |                |                                  |                |
|----------------------------------|----------------|----------------------------------|----------------|
| Storage temperature              | -25 °C...55 °C | Ambient temperature              | -60 °C...85 °C |
| Continuous operating temp., min. | -60 °C         | Continuous operating temp., max. | 130 °C         |

## Environmental Product Compliance

|                          |                             |                  |  |
|--------------------------|-----------------------------|------------------|--|
| RoHS Compliance Status   | Compliant without exemption |                  |  |
| REACH SVHC               | No SVHC above 0.1 wt%       |                  |  |
| Product Carbon Footprint | Cradle to gate              | 0,118 kg CO2 eq. |  |

## Material data

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

## System specifications

|                                     |  |                               |     |
|-------------------------------------|--|-------------------------------|-----|
| Version                             | Screw connection, for plug-in cross-connector, for screwable cross-connection, 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  |
| Mounting rail                       | TS 35  | N-function                    | No  |
| PE function                         | No   | PEN function                  | No  |

## 2 clampable conductors (H05V/H07V) with equal cross-section (rated connection)

|  |                     |  |                     |
|--|---------------------|--|---------------------|
| Cross-section for connected wire, solid, two clampable wires, max.   | 1.5 mm <sup>2</sup> | Cross-section for connected wire, solid, two clampable wires, min.   | 0.5 mm <sup>2</sup> |
| Wire connection cross section, finely stranded with wire-end ferrules DIN 46228/1, 2 clampable wires, max. | 1.5 mm <sup>2</sup> | Wire connection cross section, finely stranded with wire-end ferrules DIN 46228/1, 2 clampable wires, min. | 0.5 mm <sup>2</sup> |
| Wire cross-section, finely stranded, two clampable wires, max.   | 1.5 mm <sup>2</sup> | Wire connection cross section, finely stranded, two clampable wires, min.                                  | 0.5 mm <sup>2</sup> |

## Additional technical data

|                          |       |                             |         |
|--------------------------|-------|-----------------------------|---------|
| Open sides               | right | Number of similar terminals | 1       |
| Explosion-tested version | Yes   | Type of mounting            | Snap-on |

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## Technical data

### Conductors for clamping (additional connection)

Connection type, additional connection Screw connection

### Conductors for clamping (rated connection)

| Gauge to IEC 60947-1  | A3  |                          |                  |  |  |      |                    |      |                     |      |                   |         |                     |                  |                  |      |       |      |       |         |       |                   |      |        |      |        |
|---|---|--------------------------|------------------|--|--|------|--------------------|------|---------------------|------|-------------------|---------|---------------------|------------------|------------------|------|-------|------|-------|---------|-------|-------------------|------|--------|------|--------|
| Wire connection cross section AWG, max.   | AWG 12  |                          |                  |  |  |      |                    |      |                     |      |                   |         |                     |                  |                  |      |       |      |       |         |       |                   |      |        |      |        |
| Connection direction  | on side   |                          |                  |  |  |      |                    |      |                     |      |                   |         |                     |                  |                  |      |       |      |       |         |       |                   |      |        |      |        |
| Tightening torque, max.   | 0.8 Nm  |                          |                  |  |  |      |                    |      |                     |      |                   |         |                     |                  |                  |      |       |      |       |         |       |                   |      |        |      |        |
| Tightening torque, min.   | 0.4 Nm  |                          |                  |  |  |      |                    |      |                     |      |                   |         |                     |                  |                  |      |       |      |       |         |       |                   |      |        |      |        |
| Stripping length  | 10 mm   |                          |                  |  |  |      |                    |      |                     |      |                   |         |                     |                  |                  |      |       |      |       |         |       |                   |      |        |      |        |
| Type of connection  | Screw connection  |                          |                  |  |  |      |                    |      |                     |      |                   |         |                     |                  |                  |      |       |      |       |         |       |                   |      |        |      |        |
| Number of connections   | 2   |                          |                  |  |  |      |                    |      |                     |      |                   |         |                     |                  |                  |      |       |      |       |         |       |                   |      |        |      |        |
| Clamping range, max.  | 4 mm <sup>2</sup>   |                          |                  |  |  |      |                    |      |                     |      |                   |         |                     |                  |                  |      |       |      |       |         |       |                   |      |        |      |        |
| Clamping range, min.  | 0.05 mm <sup>2</sup>  |                          |                  |  |  |      |                    |      |                     |      |                   |         |                     |                  |                  |      |       |      |       |         |       |                   |      |        |      |        |
| Clamping screw  | M 2.5   |                          |                  |  |  |      |                    |      |                     |      |                   |         |                     |                  |                  |      |       |      |       |         |       |                   |      |        |      |        |
| Blade size  | 0.6 x 3.5 mm  |                          |                  |  |  |      |                    |      |                     |      |                   |         |                     |                  |                  |      |       |      |       |         |       |                   |      |        |      |        |
| Wire connection cross section AWG, min.   | AWG 30  |                          |                  |  |  |      |                    |      |                     |      |                   |         |                     |                  |                  |      |       |      |       |         |       |                   |      |        |      |        |
| 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. | 0.05 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. | 0.05 mm <sup>2</sup>  |                          |                  |  |  |      |                    |      |                     |      |                   |         |                     |                  |                  |      |       |      |       |         |       |                   |      |        |      |        |
| Wire connection cross section, finely stranded, max.                                    | 4 mm <sup>2</sup>   |                          |                  |  |  |      |                    |      |                     |      |                   |         |                     |                  |                  |      |       |      |       |         |       |                   |      |        |      |        |
| Wire connection cross section, finely stranded, min.                                    | 0.05 mm <sup>2</sup>  |                          |                  |  |  |      |                    |      |                     |      |                   |         |                     |                  |                  |      |       |      |       |         |       |                   |      |        |      |        |
| Connection cross-section, stranded, max.  | 4 mm <sup>2</sup>   |                          |                  |  |  |      |                    |      |                     |      |                   |         |                     |                  |                  |      |       |      |       |         |       |                   |      |        |      |        |
| Connection cross-section, stranded, min.  | 0.05 mm <sup>2</sup>  |                          |                  |  |  |      |                    |      |                     |      |                   |         |                     |                  |                  |      |       |      |       |         |       |                   |      |        |      |        |
| Twin wire-end ferrules, max.  | 1.5 mm <sup>2</sup>   |                          |                  |  |  |      |                    |      |                     |      |                   |         |                     |                  |                  |      |       |      |       |         |       |                   |      |        |      |        |
| Twin wire-end ferrules, min.  | 0.5 mm <sup>2</sup>   |                          |                  |  |  |      |                    |      |                     |      |                   |         |                     |                  |                  |      |       |      |       |         |       |                   |      |        |      |        |
| Torque level with DMS electric screwdriver  | 1   |                          |                  |  |  |      |                    |      |                     |      |                   |         |                     |                  |                  |      |       |      |       |         |       |                   |      |        |      |        |
| Wire connection cross-section, solid core, max.   | 4 mm <sup>2</sup>   |                          |                  |  |  |      |                    |      |                     |      |                   |         |                     |                  |                  |      |       |      |       |         |       |                   |      |        |      |        |
| Wire connection cross-section, solid core, min.   | 0.05 mm <sup>2</sup>  |                          |                  |  |  |      |                    |      |                     |      |                   |         |                     |                  |                  |      |       |      |       |         |       |                   |      |        |      |        |
| Connection cross-section, finely stranded, min.   | 0.05 mm <sup>2</sup>  |                          |                  |  |  |      |                    |      |                     |      |                   |         |                     |                  |                  |      |       |      |       |         |       |                   |      |        |      |        |
| Clampable conductor   | <table border="1"> <thead> <tr> <th>Connection specification</th> <th colspan="2">Screw connection</th> </tr> </thead> <tbody> <tr> <td rowspan="4">Cross-section for conductor connection</td> <td>Type</td> <td>solid, H05(07) V-U</td> </tr> <tr> <td>min.</td> <td>0.5 mm<sup>2</sup></td> </tr> <tr> <td>max.</td> <td>4 mm<sup>2</sup></td> </tr> <tr> <td>nominal</td> <td>2.5 mm<sup>2</sup></td> </tr> <tr> <td rowspan="6">wire end ferrule</td> <td rowspan="3">Stripping length</td> <td>min.</td> <td>10 mm</td> </tr> <tr> <td>max.</td> <td>10 mm</td> </tr> <tr> <td>nominal</td> <td>10 mm</td> </tr> <tr> <td rowspan="2">Tightening torque</td> <td>min.</td> <td>0.4 Nm</td> </tr> <tr> <td>max.</td> <td>0.8 Nm</td> </tr> </tbody> </table> | Connection specification | Screw connection |  | Cross-section for conductor connection | Type | solid, H05(07) V-U | min. | 0.5 mm <sup>2</sup> | max. | 4 mm <sup>2</sup> | nominal | 2.5 mm <sup>2</sup> | wire end ferrule | Stripping length | min. | 10 mm | max. | 10 mm | nominal | 10 mm | Tightening torque | min. | 0.4 Nm | max. | 0.8 Nm |
| Connection specification  | Screw connection  |                          |                  |  |  |      |                    |      |                     |      |                   |         |                     |                  |                  |      |       |      |       |         |       |                   |      |        |      |        |
| Cross-section for conductor connection  | Type  | solid, H05(07) V-U       |                  |  |  |      |                    |      |                     |      |                   |         |                     |                  |                  |      |       |      |       |         |       |                   |      |        |      |        |
|   | min.  | 0.5 mm <sup>2</sup>      |                  |  |  |      |                    |      |                     |      |                   |         |                     |                  |                  |      |       |      |       |         |       |                   |      |        |      |        |
|   | max.  | 4 mm <sup>2</sup>        |                  |  |  |      |                    |      |                     |      |                   |         |                     |                  |                  |      |       |      |       |         |       |                   |      |        |      |        |
|   | nominal   | 2.5 mm <sup>2</sup>      |                  |  |  |      |                    |      |                     |      |                   |         |                     |                  |                  |      |       |      |       |         |       |                   |      |        |      |        |
| wire end ferrule  | Stripping length  | min.                     | 10 mm            |  |  |      |                    |      |                     |      |                   |         |                     |                  |                  |      |       |      |       |         |       |                   |      |        |      |        |
|   |   | max.                     | 10 mm            |  |  |      |                    |      |                     |      |                   |         |                     |                  |                  |      |       |      |       |         |       |                   |      |        |      |        |
|   |   | nominal                  | 10 mm            |  |  |      |                    |      |                     |      |                   |         |                     |                  |                  |      |       |      |       |         |       |                   |      |        |      |        |
|   | Tightening torque   | min.                     | 0.4 Nm           |  |  |      |                    |      |                     |      |                   |         |                     |                  |                  |      |       |      |       |         |       |                   |      |        |      |        |
|   |   | max.                     | 0.8 Nm           |  |  |      |                    |      |                     |      |                   |         |                     |                  |                  |      |       |      |       |         |       |                   |      |        |      |        |

### Technical data

| Connection specification               |                   | Screw connection      |        |
|--|-------------------|-----------------------|--------|
| Cross-section for conductor connection | Type              | stranded, H07V-R      |        |
|  | min.              | 1.5 mm <sup>2</sup>   |        |
|  | max.              | 4 mm <sup>2</sup>     |        |
|  | nominal           | 2.5 mm <sup>2</sup>   |        |
| wire end ferrule                       | Stripping length  | min.                  | 10 mm  |
|  |                   | max.                  | 10 mm  |
|  |                   | nominal               | 10 mm  |
|  | Tightening torque | min.                  | 0.4 Nm |
|  |                   | max.                  | 0.8 Nm |
|  |                   |                       |        |
| Connection specification               |                   | Screw connection      |        |
| Cross-section for conductor connection | Type              | flexible, H05(07) V-K |        |
|  | min.              | 0.5 mm <sup>2</sup>   |        |
|  | max.              | 2.5 mm <sup>2</sup>   |        |
|  | nominal           | 2.5 mm <sup>2</sup>   |        |
| wire end ferrule                       | Stripping length  | min.                  | 10 mm  |
|  |                   | max.                  | 10 mm  |
|  |                   | nominal               | 10 mm  |
|  | Tightening torque | min.                  | 0.4 Nm |
|  |                   | max.                  | 0.8 Nm |
|  |                   |                       |        |

### General

|   |               |   |        |
|---|---------------|---|--------|
| Wire connection cross section AWG, max. | AWG 12        | Wire connection cross section AWG, min. | AWG 30 |
| Standards                               | IEC 60947-7-1 | Mounting rail                           | TS 35  |

### Rating data

|  |                     |                                 |               |
|--|---------------------|---------------------------------|---------------|
| Rated cross-section                          | 2.5 mm <sup>2</sup> | Rated voltage                   | 1000 V        |
| Rated DC voltage                             | 1000 V              | Nominal current                 | 24 A          |
| Current at maximum wires                     | 32 A                | Standards                       | IEC 60947-7-1 |
| Volume resistance according to IEC 60947-7-x | 1.33 mΩ             | Rated impulse withstand voltage | 8 kV          |
| Power loss in accordance with IEC 60947-7-x  | 0.77 W              | Pollution severity              | 3             |

### Classifications

|             |             |             |             |
|-------------|-------------|-------------|-------------|
| ETIM 8.0    | EC000897    | ETIM 9.0    | EC000897    |
| ETIM 10.0   | EC000897    | ECLASS 14.0 | 27-25-01-01 |
| ECLASS 15.0 | 27-25-01-01 |             |             |

**Drawings**

