

**Z-series  
ZP 2.5/1AN ZA O.RA**

**Weidmüller Interface GmbH & Co. KG**  
Klingenbergstraße 26  
D-32758 Detmold  
Germany  
Fon: +49 5231 14-0  
Fax: +49 5231 14-292083  
[www.weidmueller.com](http://www.weidmueller.com)

**Product image****Spring connection with tension clamp Technology**

Tension clamp technology is a universal contact system for all common conductor connection types. Its fantastic level of flexibility makes the tension clamp a profitable alternative connection.

**General ordering data**

|            |                                                          |
|------------|----------------------------------------------------------|
| Type       | ZP 2.5/1AN ZA O.RA                                       |
| Order No.  | <a href="#">1875210000</a>                               |
| Version    | Z-series, Plug-in connector, dark beige, Direct mounting |
| GTIN (EAN) | 4032248500277                                            |
| Qty.       | 50 pc(s).                                                |

**Z-series**  
**ZP 2.5/1AN ZA O.RA**

**Weidmüller Interface GmbH & Co. KG**  
 Klingenbergstraße 26  
 D-32758 Detmold  
 Germany  
 Fon: +49 5231 14-0  
 Fax: +49 5231 14-292083  
 www.weidmueller.com

**Technical data**
**Dimensions and weights**

|            |        |                 |            |
|------------|--------|-----------------|------------|
| Width      | 5.1 mm | Width (inches)  | 0.201 inch |
| Height     | 23 mm  | Height (inches) | 0.906 inch |
| Depth      | 41 mm  | Depth (inches)  | 1.614 inch |
| Net weight | 3.36 g |                 |            |

**Temperatures**

|                                  |               |                                  |        |
|----------------------------------|---------------|----------------------------------|--------|
| Storage temperature, max.        | 40 °C         | Storage temperature, min.        | 10 °C  |
| Storage temperature              | 10 °C...40 °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                           | Plug, pluggable, With assembly peg, Tension-clamp connection | End cover plate required            | Yes |
| Number of levels                  | 1                                                            | Number of clamping points per level | 1   |
| Levels cross-connected internally | No                                                           | PE connection                       | No  |

**Additional technical data**

|                     |                 |            |       |
|---------------------|-----------------|------------|-------|
| Installation advice | Direct mounting | Open sides | right |
| Type of mounting    | Plugged         |            |       |

**CSA rating data**

|                                   |                |                                   |        |
|-----------------------------------|----------------|-----------------------------------|--------|
| Certificate number (cCSAus)       | 154685-1460993 | Current size C (cCSAus)           | 20 A   |
| Current size D (cCSAus)           | 5 A            | Voltage size C (cCSAus)           | 300 V  |
| Voltage size D (cCSAus)           | 600 V          | Wire cross section max. (cCSAusX) | 12 AWG |
| Wire cross section min. (cCSAusX) | 26 AWG         |                                   |        |

**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 direction                                                                    | top                 |
| Gauge to IEC 60947-1                                                                    | A2                   | Number of connections                                                                   | 1                   |
| Stripping length                                                                        | 10 mm                | Type of connection                                                                      | Plug-in 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 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, 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> |

**Z-series**  
**ZP 2.5/1AN ZA O.RA**
**Weidmüller Interface GmbH & Co. KG**

 Klingenbergstraße 26  
 D-32758 Detmold  
 Germany  
 Fon: +49 5231 14-0  
 Fax: +49 5231 14-292083  
 www.weidmueller.com

**Technical data**
**Rating data**

|                                             |                          |                                              |         |
|---------------------------------------------|--------------------------|----------------------------------------------|---------|
| Rated cross-section                         | 2.5 mm <sup>2</sup>      | Rated voltage                                | 500 V   |
| Rated current                               | 24 A                     | Current at maximum wires                     | 24 A    |
| Standards                                   | IEC 60947-7-1, IEC 61984 | Volume resistance according to IEC 60947-7-x | 1.33 mΩ |
| Power loss in accordance with IEC 60947-7-x | 0.77 W                   | Rated impulse withstand voltage              | 6 kV    |

**UL rating data**

|                                            |        |                                            |        |
|--------------------------------------------|--------|--------------------------------------------|--------|
| Certificate No. (cURus)                    | E60693 | Conductor size Factory wiring max. (cURus) | 12 AWG |
| Conductor size Factory wiring min. (cURus) | 26 AWG | Conductor size Field wiring max. (cURus)   | 12 AWG |
| Conductor size Field wiring min. (cURus)   | 26 AWG | Current size C (cURus)                     | 20 A   |
| Current size D (cURus)                     | 5 A    | Voltage size C (cURus)                     | 300 V  |
| Voltage size D (cURus)                     | 600 V  |                                            |        |

**Classifications**

|             |             |            |             |
|-------------|-------------|------------|-------------|
| ETIM 6.0    | EC002848    | ETIM 7.0   | EC002848    |
| eClass 9.0  | 27-14-11-92 | eClass 9.1 | 27-14-11-92 |
| eClass 10.0 | 27-14-11-92 | UNSPSC     | 30-21-18-01 |

**Approvals**

Approvals



ROHS

Conform

**Downloads**

|                    |                                                 |
|--------------------|-------------------------------------------------|
| Brochure/Catalogue | <a href="#">CAT 1 TERM 16/17 EN</a>             |
| Engineering Data   | <a href="#">EPLAN, WSCAD, Zuken E3.S</a>        |
| Engineering Data   | <a href="#">STEP</a>                            |
| User Documentation | <a href="#">StorageConditionsTerminalBlocks</a> |