

**RS 16IO 3W L H Z****Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

[www.weidmueller.com](http://www.weidmueller.com)

Similar to illustration

The digital direct input/output interfaces are supplied with flat cable connectors to facilitate connection. They are available in tension clamp or clamping yoke connection, with elements such as fuses, disconnectors or LEDs.

**General ordering data**

|            |                                                      |
|------------|------------------------------------------------------|
| Version    | Interface, RS, LED, 3-wire, Tension-clamp connection |
| Order No.  | <a href="#">1311890000</a>                           |
| Type       | RS 16IO 3W L H Z                                     |
| GTIN (EAN) | 4050118114256                                        |
| Qty.       | 1 pc(s).                                             |

## RS 16IO 3W L H Z

Weidmüller Interface GmbH &amp; Co. KG

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com

## Technical data

## Dimensions and weights

|            |          |                 |            |
|------------|----------|-----------------|------------|
| Depth      | 72 mm    | Depth (inches)  | 2.835 inch |
| Height     | 87 mm    | Height (inches) | 3.425 inch |
| Width      | 90 mm    | Width (inches)  | 3.543 inch |
| Net weight | 171.16 g |                 |            |

## Temperatures

|                     |             |                       |             |
|---------------------|-------------|-----------------------|-------------|
| Storage temperature | -40...60 °C | Operating temperature | -25...50 °C |
|---------------------|-------------|-----------------------|-------------|

## Rated data UL

|                                 |        |                                |         |
|---------------------------------|--------|--------------------------------|---------|
| Operating temperature UL, max.  | 25 °C  | Operating temperature UL, min. | 0 °C    |
| Rated current $I_N$             | 1 A    | Rated voltage $U_N$            | 24 V DC |
| Rated voltage DC $U_N$ (supply) | 24 V   | Rated current (supply)         | 2 A     |
| Rated current fuse (supply)     | 3.15 A |                                |         |

## General data

|                                  |        |                           |        |
|----------------------------------|--------|---------------------------|--------|
| LED status display per channel   | green  | Disconnection per channel | No     |
| Type of test point               | No     | Fuse per channel          | No     |
| LED status of the supply voltage | yellow | Power supply fuse         | 3.15 A |
| Common pole polarity             | Yes    |                           |        |

## Connection data

|                                |               |                            |                                                       |
|--------------------------------|---------------|----------------------------|-------------------------------------------------------|
| Connection (field side)        | LM2NZF 5.08mm | Connection on control side | Plug-in connector in acc. with IEC60603-13 / DIN41651 |
| Number of poles (control side) | 20-pole plug  | Wiring system              | 3-wire                                                |

## Ratings data

|                         |                   |                          |     |
|-------------------------|-------------------|--------------------------|-----|
| Operating voltage       | 24 V DC $\pm$ 10% | Max. current per channel | 1 A |
| Total operating current | 2 A               |                          |     |

## Insulation coordination (EN50178)

|                                     |              |                            |          |
|-------------------------------------|--------------|----------------------------|----------|
| According to                        | DIN EN 50178 | Rated insulation voltage   | <50 V AC |
| Surge voltage category              | III          | Pollution severity level   | 2        |
| Pulse voltage test (1,2/50 $\mu$ s) | 0.8 kV       | Insulation test voltage AC | 0.35 kV  |

## Connection field

|                                  |                          |                              |                      |
|----------------------------------|--------------------------|------------------------------|----------------------|
| Clamping range, max.             | 2.5 mm <sup>2</sup>      | Clamping range, min.         | 0.13 mm <sup>2</sup> |
| Flexible with sleeve, max.       | 2.5 mm <sup>2</sup>      | Flexible with sleeve, min.   | 0.5 mm <sup>2</sup>  |
| Flexible, max. H05(07) V-K       | 4 mm <sup>2</sup>        | Flexible, min. H05(07) V-K   | 0.5 mm <sup>2</sup>  |
| Max. wire cross-section, AWG     | AWG 14                   | Min. wire cross-section, AWG | AWG 26               |
| Sleeve with plastic collar, max. | 2.5 mm <sup>2</sup>      | Solid, max. H05(07) V-U      | 1.5 mm <sup>2</sup>  |
| Solid, min. H05(07) V-U          | 0.5 mm <sup>2</sup>      | Stripping length             | 7 mm                 |
| Tightening torque, max.          | 0.6 Nm                   | Tightening torque, min.      | 0.5 Nm               |
| Type of connection               | Tension-clamp connection |                              |                      |

## RS 16IO 3W L H Z

Weidmüller Interface GmbH &amp; Co. KG

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com

## Technical data

## Supply connection

|                              |                          |                                   |                      |
|------------------------------|--------------------------|-----------------------------------|----------------------|
| Type of connection           | Tension-clamp connection | Clamping range, min.              | 0.13 mm <sup>2</sup> |
| Clamping range, max.         | 2.5 mm <sup>2</sup>      | Solid, min. H05(07) V-U           | 0.5 mm <sup>2</sup>  |
| Solid, max. H05(07) V-U      | 1.5 mm <sup>2</sup>      | Flexible, min. H05(07) V-K        | 0.5 mm <sup>2</sup>  |
| Flexible, max. H05(07) V-K   | 1.5 mm <sup>2</sup>      | Flexible with sleeve, max.        | 1.5 mm <sup>2</sup>  |
| Flexible with sleeve, min.   | 0.5 mm <sup>2</sup>      | Ferrule with plastic collar, max. | 1.5 mm <sup>2</sup>  |
| Wire cross-section, min. AWG | AWG 26                   | Wire cross-section, max. AWG      | AWG 12               |
| Tightening torque, min.      | 0.5 Nm                   | Tightening torque, max.           | 0.6 Nm               |
| Stripping length             | 6 mm                     |                                   |                      |

## Classifications

|             |             |             |             |
|-------------|-------------|-------------|-------------|
| ETIM 6.0    | EC002780    | ETIM 7.0    | EC002780    |
| ETIM 8.0    | EC002780    | ETIM 9.0    | EC002780    |
| ETIM 10.0   | EC002780    | ECLASS 9.0  | 27-14-11-52 |
| ECLASS 9.1  | 27-24-22-16 | ECLASS 10.0 | 27-14-11-52 |
| ECLASS 11.0 | 27-14-11-52 | ECLASS 12.0 | 27-14-11-52 |
| ECLASS 13.0 | 27-14-11-52 | ECLASS 14.0 | 27-14-11-52 |
| ECLASS 15.0 | 27-14-11-52 |             |             |

## Environmental Product Compliance

|                                      |                                      |
|--------------------------------------|--------------------------------------|
| RoHS Compliance Status               | Compliant with exemption             |
| RoHS Exemption (if applicable/known) | 7a, 7cl                              |
| REACH SVHC                           | Lead 7439-92-1                       |
| SCIP                                 | 7b5ffb72-271d-4c73-8b09-bd0aeee3697a |

## Approvals

Approvals



|                       |                                                                                                                                                                                                                                                                                                                                                         |
|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Approvals MAMID       | <a href="https://mdcop.weidmueller.com/mediadelivery/rendition/900_319222/-T1z1mm-S800/">https://mdcop.weidmueller.com/mediadelivery/rendition/900_319222/-T1z1mm-S800/</a> <a href="https://mdcop.weidmueller.com/mediadelivery/rendition/900_319262/-T1z1mm-S800/">https://mdcop.weidmueller.com/mediadelivery/rendition/900_319262/-T1z1mm-S800/</a> |
| ROHS                  | Conform                                                                                                                                                                                                                                                                                                                                                 |
| UL File Number Search | UL Website                                                                                                                                                                                                                                                                                                                                              |
| Certificate No. (UR)  | E141197                                                                                                                                                                                                                                                                                                                                                 |

## Downloads

|                                             |                                                         |
|---------------------------------------------|---------------------------------------------------------|
| Approval/Certificate/Document of Conformity | <a href="#">Declaration of Conformity</a>               |
| Product Change Notification                 | <a href="#">20220525 Technical change to RS and RSM</a> |
| Catalogues                                  | <a href="#">Catalogues in PDF-format</a>                |
| Brochures                                   |                                                         |

## RS 16IO 3W L H Z

**Weidmüller Interface GmbH & Co. KG**  
Klingenbergstraße 26  
D-32758 Detmold  
Germany

[www.weidmueller.com](http://www.weidmueller.com)

## Drawings

