

**RS 16IO 2W I-L 2H S****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, Spacer, LED, 2-wire, Screw connection |
| Order No.  | <a href="#">1431700000</a>                           |
| Type       | RS 16IO 2W I-L 2H S                                  |
| GTIN (EAN) | 4050118236934                                        |
| Qty.       | 1 pc(s).                                             |

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## Technical data

## Dimensions and weights

|            |         |                 |            |
|------------|---------|-----------------|------------|
| Depth      | 79 mm   | Depth (inches)  | 3.11 inch  |
| Height     | 109 mm  | Height (inches) | 4.291 inch |
| Width      | 91 mm   | Width (inches)  | 3.583 inch |
| Net weight | 277.3 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 | Yes    |
| 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             | Positive or negative can be selected using jumper |                           |        |

## Connection data

|                                |              |                            |                                                       |
|--------------------------------|--------------|----------------------------|-------------------------------------------------------|
| Connection (field side)        | LL2N 5.08 mm | Connection on control side | Plug-in connector in acc. with IEC60603-13 / DIN41651 |
| Number of poles (control side) | 20-pole plug | Wiring system              | 2-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 (1,2/50µs) | 0.8 kV       | Insulation test voltage AC | 0.35 kV  |

## Connection field

|                                  |                     |                              |                      |
|----------------------------------|---------------------|------------------------------|----------------------|
| Clamping range, max.             | 6 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 12              | Min. wire cross-section, AWG | AWG 26               |
| Sleeve with plastic collar, max. | 2.5 mm <sup>2</sup> | Solid, max. H05(07) V-U      | 6 mm <sup>2</sup>    |
| Solid, min. H05(07) V-U          | 0.5 mm <sup>2</sup> | Stripping length             | 6 mm                 |
| Tightening torque, max.          | 0.6 Nm              | Tightening torque, min.      | 0.5 Nm               |
| Type of connection               | Screw connection    |                              |                      |

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## Supply connection

|                              |                     |                                   |                      |
|------------------------------|---------------------|-----------------------------------|----------------------|
| Type of connection           | Screw connection    | Clamping range, min.              | 0.13 mm <sup>2</sup> |
| Clamping range, max.         | 6 mm <sup>2</sup>   | Solid, min. H05(07) V-U           | 0.5 mm <sup>2</sup>  |
| Solid, max. H05(07) V-U      | 6 mm <sup>2</sup>   | Flexible, min. H05(07) V-K        | 0.5 mm <sup>2</sup>  |
| Flexible, max. H05(07) V-K   | 4 mm <sup>2</sup>   | Flexible with sleeve, max.        | 2.5 mm <sup>2</sup>  |
| Flexible with sleeve, min.   | 0.5 mm <sup>2</sup> | Ferrule with plastic collar, max. | 2.5 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

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

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## Drawings

