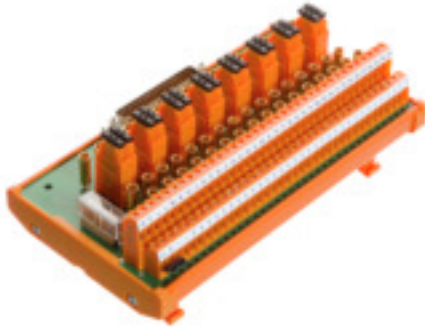


**RS 16AIO I-M-DP SD Z****Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

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

Similar to illustration

The analogue interfaces are equipped with SubD connectors. Thus they offer sufficient shielding for analogue signal transmission. They are also equipped with very useful isolators and test sockets for measuring voltage or current.

**General ordering data**

|            |                                                 |
|------------|-------------------------------------------------|
| Version    | Interface, RS, 2-wire, Tension-clamp connection |
| Order No.  | <a href="#">1308280000</a>                      |
| Type       | RS 16AIO I-M-DP SD Z                            |
| GTIN (EAN) | 4050118110630                                   |
| Qty.       | 1 pc(s).                                        |

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## Technical data

## Dimensions and weights

|            |          |                 |            |
|------------|----------|-----------------|------------|
| Depth      | 81 mm    | Depth (inches)  | 3.189 inch |
| Height     | 109 mm   | Height (inches) | 4.291 inch |
| Width      | 197 mm   | Width (inches)  | 7.756 inch |
| Net weight | 505.86 g |                 |            |

## Temperatures

|                     |             |                       |             |
|---------------------|-------------|-----------------------|-------------|
| Storage temperature | -40...60 °C | Operating temperature | -20...50 °C |
|---------------------|-------------|-----------------------|-------------|

## Rated data UL

|                                 |        |                                |                   |
|---------------------------------|--------|--------------------------------|-------------------|
| Operating temperature UL, max.  | 25 °C  | Operating temperature UL, min. | 0 °C              |
| Rated current $I_N$             | 0.5 A  | Rated voltage $U_N$            | ≤ 25 V AC 50 V DC |
| Rated voltage DC $U_N$ (supply) | 24 V   | Rated current (supply)         | 3 A               |
| Rated current fuse (supply)     | 3.15 A |                                |                   |

## General data

|                                |                |                                  |                                                   |
|--------------------------------|----------------|----------------------------------|---------------------------------------------------|
| LED status display per channel | No             | Disconnection per channel        | Yes                                               |
| Voltage point of measurement   | Yes            | Current-measuring testpoint      | Yes                                               |
| Type of test point             | Diameter: 4 mm | LED status of the supply voltage | No                                                |
| Power supply fuse              | 3.15 A         | Common pole polarity             | Positive or negative can be selected using jumper |

## Connection data

|                             |                                      |                                |                                                 |
|-----------------------------|--------------------------------------|--------------------------------|-------------------------------------------------|
| Connection (field side)     | LMNZF 5.08mm                         | Connection on control side     | D-sub connectors, acc. to IEC 60807 / DIN 41652 |
| Connection supply           | LMNZF 5.08mm                         | Number of poles (control side) | 37-pole plug                                    |
| Protective earth connection | Shielding in SUB-D plug-in connector | Wiring system                  | 2-wire                                          |

## Ratings data

|                          |                     |                              |        |
|--------------------------|---------------------|------------------------------|--------|
| Operating voltage        | ≤ 25 V AC / 50 V DC | Max. current for common pole | 3.15 A |
| Max. current per channel | 0.5 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.             | 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 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               | Tension-clamp connection |                              |                      |

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## 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      | 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  | 27-14-11-52 | 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) | 6a, 6c                               |
| 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>               |
| Engineering Data                            | <a href="#">CAD data – STEP</a>                         |
| 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

