

RS 16IO 2W F R S

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

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, Fuse, 2-wire, Screw connection |
| Order No. | 9441560000 |
| Type | RS 16IO 2W F R S |
| GTIN (EAN) | 4032248253814 |
| Qty. | 1 items |

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Technical data

Approvals

Approvals



| | |
|-----------------------|----------------------------|
| ROHS | Conform |
| UL File Number Search | UL Website |
| Certificate No. (UR) | E141197 |

Dimensions and weights

| | | | |
|------------|----------|-----------------|-------------|
| Depth | 72 mm | Depth (inches) | 2.8346 inch |
| Height | 109 mm | Height (inches) | 4.2913 inch |
| Width | 123 mm | Width (inches) | 4.8425 inch |
| Net weight | 350.24 g | | |

Temperatures

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

Environmental Product Compliance

| | |
|--------------------------------------|--------------------------------------|
| RoHS Compliance Status | Compliant with exemption |
| RoHS Exemption (if applicable/known) | 6c |
| REACH SVHC | Lead 7439-92-1 |
| SCIP | 7b5ffb72-271d-4c73-8b09-bd0aaee3697a |

Rated data UL

| | | | |
|--------------------------------|--------|---------------------------------|-------|
| Rated current IN | 1 A | Operating temperature UL, min. | 0 °C |
| Operating temperature UL, max. | 25 °C | Rated current I _{max} | 1 A |
| Rated voltage UN | 142 V | Rated voltage DC UN (supply) | 24 V |
| Rated current (supply) | 3 A | Rated voltage fuse UN (supply) | 250 V |
| Rated current fuse (supply) | 3.15 A | Rated voltage fuse UN (channel) | 250 V |
| Rated current fuse (channel) | 1 A | | |

General data

| | | | |
|----------------------------------|---|---------------------------|--------|
| LED status display per channel | No | Disconnection per channel | No |
| Type of test point | No | Fuse per channel | 1 A |
| 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

| | | | |
|--------------------------------|----------------|----------------------------|-------------------|
| Number of poles (control side) | 24-pole female | Wiring system | 2-wire |
| Connection (field side) | LM2N 5.08 mm | Connection on control side | Connector RSV 1.6 |

Ratings data

| | | | |
|-------------------------|----------|--------------------------|-----|
| Operating voltage | 150 V UC | Max. current per channel | 1 A |
| Total operating current | 3 A | | |

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Insulation coordination (EN50178)

| | | | |
|-------------------------------|--------------|----------------------------|-----------|
| According to | DIN EN 50178 | Rated insulation voltage | <150 V AC |
| Surge voltage category | II | Pollution severity level | 2 |
| Pulse voltage test (1,2/50µs) | 1.5 kV | Insulation test voltage AC | 1.1 kV |

Connection field

| | | | |
|----------------------------------|---------------------|----------------------------|----------------------|
| Min. wire cross-section, AWG | AWG 26 | Type of connection | Screw connection |
| Sleeve with plastic collar, max. | 2.5 mm ² | Flexible with sleeve, min. | 0.25 mm ² |
| Flexible with sleeve, max. | 1.5 mm ² | Flexible, max. H05(07) V-K | 1.5 mm ² |
| Flexible, min. H05(07) V-K | 0.2 mm ² | Solid, max. H05(07) V-U | 2.5 mm ² |
| Solid, min. H05(07) V-U | 0.2 mm ² | Stripping length | 6 mm |
| Tightening torque, max. | 0.6 Nm | Tightening torque, min. | 0.5 Nm |
| Clamping range, max. | 2.5 mm ² | Clamping range, min. | 0.2 mm ² |
| Max. wire cross-section, AWG | AWG 14 | | |

Supply connection

| | | | |
|----------------------|---------------------|----------------------|---------------------|
| Type of connection | Screw connection | Clamping range, min. | 0.2 mm ² |
| Clamping range, max. | 2.5 mm ² | | |

Classifications

| | | | |
|-------------|-------------|-------------|-------------|
| ETIM 8.0 | EC002780 | ETIM 9.0 | EC002780 |
| ETIM 10.0 | EC002780 | ECLASS 14.0 | 27-14-11-52 |
| ECLASS 15.0 | 27-14-11-52 | | |

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Drawings

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