

RS
RS 8AI PREM/APR SD S**Weidmüller Interface GmbH & Co. KG**
Klingenbergstraße 26
D-32758 Detmold
Germany
Fon: +49 5231 14-0
Fax: +49 5231 14-292083
www.weidmueller.com

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

| | |
|------------|---|
| Type | RS 8AI PREM/APR SD S |
| Order No. | 9448030000 |
| Version | Interface, RS, 2-wire, Screw connection |
| GTIN (EAN) | 4032248253333 |
| Qty. | 1 pc(s). |

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Technical data
Dimensions and weights

| | | | |
|------------|--------|-----------------|------------|
| Length | 116 mm | Length (inches) | 4.567 inch |
| Width | 87 mm | Width (inches) | 3.425 inch |
| Height | 72 mm | Height (inches) | 2.835 inch |
| Net weight | 238 g | | |

Temperatures

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

General data

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

Connection data

| | | | |
|--------------------------------|--------------------------------------|----------------------------|---|
| Connection to PLC | 25-pole D-SUB male connector | Connection on control side | D-sub connectors, acc. to IEC 60807 / DIN 41652 |
| Number of poles (control side) | 25-pole plug | Connection (field side) | LP2N 5.08mm |
| Connection supply | LP2N 5.08mm | Wiring system | 2-wire |
| Protective earth connection | Shielding in SUB-D plug-in connector | | |

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 | 0.35 kVAC |

Connection field

| | | | |
|------------------------------|---------------------|----------------------------------|----------------------|
| Type of connection | Screw connection | Clamping range, min. | 0.13 mm ² |
| Clamping range, max. | 6 mm ² | Solid, min. H05(07) V-U | 0.5 mm ² |
| Solid, max. H05(07) V-U | 6 mm ² | Flexible, min. H05(07) V-K | 0.5 mm ² |
| Flexible, max. H05(07) V-K | 4 mm ² | Flexible with sleeve, max. | 2.5 mm ² |
| Flexible with sleeve, min. | 0.5 mm ² | Sleeve with plastic collar, max. | 2.5 mm ² |
| Min. wire cross-section, AWG | AWG 26 | Max. wire cross-section, AWG | AWG 12 |
| Tightening torque, min. | 0.5 Nm | Tightening torque, max. | 0.6 Nm |
| Stripping length | 6 mm | | |

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Technical data

Supply connection

| | | | |
|------------------------------|---------------------|-----------------------------------|----------------------|
| Type of connection | Screw connection | Clamping range, min. | 0.13 mm ² |
| Clamping range, max. | 6 mm ² | Solid, min. H05(07) V-U | 0.5 mm ² |
| Solid, max. H05(07) V-U | 6 mm ² | Flexible, min. H05(07) V-K | 0.5 mm ² |
| Flexible, max. H05(07) V-K | 4 mm ² | Flexible with sleeve, max. | 2.5 mm ² |
| Flexible with sleeve, min. | 0.5 mm ² | Ferrule with plastic collar, max. | 2.5 mm ² |
| 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 |
| eClass 9.0 | 27-14-11-52 | eClass 9.1 | 27-14-11-52 |
| eClass 10.0 | 27-14-11-52 | UNSPSC | 30-21-18-01 |

Approvals

Approvals



ROHS Conform

Downloads

Engineering Data [WSCAD](#)

Data sheet

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Drawings

