

**RS  
RS 8AI1AO MICRO SD S**

**Weidmüller Interface GmbH & Co. KG**  
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Germany  
Fon: +49 5231 14-0  
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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 8AI1AO MICRO SD S
Order No.	<a href="#">9448040000</a>
Version	Interface, RS, 1-wire, Screw connection
GTIN (EAN)	4032248253357
Qty.	1 pc(s).

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**Technical data****Dimensions and weights**

Length	100 mm	Length (inches)	3.937 inch
Width	87 mm	Width (inches)	3.425 inch
Height	72 mm	Height (inches)	2.835 inch
Net weight	217 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	Yes	Current-measuring testpoint	No
Type of test point	No	LED status of the supply voltage	No
Power supply fuse	No	Common pole polarity	Yes

**Connection data**

Connection to PLC	15-pole D-SUB male connector	Connection on control side	D-sub connectors, acc. to IEC 60807 / DIN 41652
Number of poles (control side)	15-pole plug	Connection (field side)	LP2N 5.08mm
Connection supply	LP2N 5.08mm	Wiring system	1-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 <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>	Sleeve with plastic collar, max.	2.5 mm <sup>2</sup>
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 <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 3.0	EC001423	ETIM 4.0	EC001423
ETIM 5.0	EC001423	ETIM 6.0	EC002780
UNSPSC	30-21-18-01	eClass 5.1	27-24-22-08
eClass 6.2	27-24-22-08	eClass 7.1	27-14-11-52
eClass 8.1	27-14-11-52	eClass 9.0	27-14-11-52
eClass 9.1	27-14-11-52		

**Approvals**

Approvals



ROHS

Conform

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Engineering Data

[WSCAD](#)

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**Drawings**

