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With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

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**RS  
RS 16IO 3W I R S**

**Weidmüller Interface GmbH & Co. KG**  
Klingenbergstraße 16  
D-32758 Detmold  
Germany  
Fon: +49 5231 14-0  
Fax: +49 5231 14-292083  
www.weidmueller.com



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**

Order No.	<a href="#">944160000</a>
Type	RS 16IO 3W I R S
Version	Interface, RS, Isolator, 3-wire, Screw connection
GTIN (EAN)	4008190981082
Qty.	1 pc(s).

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

Length	116 mm	Width	109 mm
Height	84 mm	Net weight	380 g

**Temperatures**

Operating temperature	-25...+50°C	Storage temperature	-40...+60 °C
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**General data**

LED status display per channel	No	Disconnection per channel	Yes
Type of test point	No	Fuse per channel	No
LED status of the supply voltage	No	Power supply fuse	3.15 A
Common pole polarity	Yes		

**Connection data**

Connection to PLC	RSV 1.6 connector - 24 pole	Connection on control side	Connector RSV 1.6
Number of poles (control side)	24-pole female	Connection (field side)	LPK 3 5.08mm
Wiring system	3-wire		

**Ratings data**

Operating voltage	250 V UC	Max. current per channel	1 A
Total operating current	2 A		

**Insulation coordination (EN50178)**

According to	DIN EN 50178	Rated insulation voltage	250 V AC
Surge voltage category	II	Pollution severity level	2
Pulse voltage test (1,2/50µs)	2.1 kV	Insulation test voltage	1.1 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 [field]	AWG 26	Max. wire cross-section, AWG [field]	AWG 12
Tightening torque, min.	0.5 Nm	Tightening torque, max.	0.6 Nm
Stripping length	6 mm		

**Supply connection**

Type of connection	Screw connection	Clamping range, min.	0.13 mm <sup>2</sup>
Clamping range, max.	6 mm <sup>2</sup>		

**Classifications**

ETIM 2.0	EC001423	ETIM 3.0	EC001423
UNSPSC	30-21-18-01	eClass 4.1	45-11-18-07
eClass 5.1	27-24-22-08	eClass 6.2	27-24-22-08
eClass 7.1	27-24-22-08		

**Data sheet...****RS**  
**RS 16IO 3W I R S****Weidmüller Interface GmbH & Co. KG**  
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www.weidmueller.com**Technical data****Notes**

Notes Do not connect to unprotected power circuits.

**Approvals**

Approvals



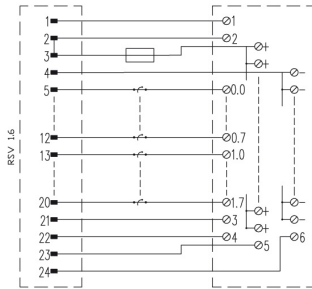
ROHS Conform

**Downloads**

Declaration of Conformity [K246\\_09\\_02.pdf](#)

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**Drawings**

The wiring diagram corresponds to the version with LEDs.