

WAVESERIES
WDS2 RS232/RS485/422**Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 16

D-32758 Detmold

Germany

Fon: +49 5231 1429-0

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www.weidmueller.com



The constantly increasing demand for automation technology means that ever larger amounts of data have to be processed.

A highly diverse range of interface converters in serial and digital form are used in such instances.

They are primarily used to adapt different data protocols and for converting analogue signals into digital ones or vice versa.

General ordering data

Type	WDS2 RS232/RS485/422
Order No.	8615700000
Version	Interface converter, Screw connection
GTIN (EAN)	4032248277698
Qty.	1 pc(s).

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Technical data
Dimensions and weights

Length	92.4 mm	Length (inches)	3.638 inch
Width	22.5 mm	Width (inches)	0.886 inch
Height	112.4 mm	Height (inches)	4.425 inch
Net weight	153 g		

Temperatures

Operating temperature	0 °C...55 °C	Storage temperature	-20 °C...85 °C
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Probability of failure

MTTF	277 Years
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Interface 1

Assignment	DTE/DCE switchable with DIP switch	Connection type	SUB-D9 (male plug)
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Interface 2

Bit delay	≤ 3 µs	Bit distortion	< 5 %
Shield connection		Status indicator	LED green: supply voltage, TxD, RxD
Transmission channels	KLBÜ 4-6/Z1 Half-duplex (RS485 2-wire) Full-duplex (RS485 4-wire and RS422)	Transmission distance	Max. 1200 m twisted pair
Transmission rate	2.4, 4.8, 9.6, 19.2, 57.6, 115.2 kBaud, 8 bit or 8 bit + parity bit		

General data

Configuration	DIP switch	Current-carrying capacity of cross-connect.	≤ 2 A
Galvanic isolation	3-way isolator	Mounting rail	TS 35
Power consumption	ca. 1.5 W	Supply voltage	24 V DC ± 20 %

Insulation coordination

Clearance & creepage distances	Between neighbouring circuits: 3 mm Between the circuits and PE: 1.5 mm	EMC standards	EN 55011, EN 61000-6-2, EN 61000-6-4
Galvanic isolation	3-way isolator	Impulse withstand voltage	4 kV
Insulation voltage	2 kV DC / 1 min.	Insulation voltage input or output/supply	2 kV DC / 1 min.
Pollution severity		Rated voltage	between adjacent electric circuits: 300 V between electric circuits and PE: 150 V
	2		
Standards	DIN EN 50178, DIN EN 61000-4-2	Surge voltage category	III

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Technical data

Connection data

Type of connection	Screw connection	Stripping length, rated connection	7 mm
Tightening torque, min.	0.4 Nm	Tightening torque, max.	0.5 Nm
Clamping range, rated connection	2.5 mm ²	Clamping range, rated connection, min.	0.5 mm ²
Clamping range, rated connection, max.	2.5 mm ²		

Classifications

ETIM 3.0	EC000310	ETIM 4.0	EC000310
ETIM 5.0	EC000310	ETIM 6.0	EC000310
UNSPSC	30-21-18-01	eClass 5.1	27-23-02-07
eClass 6.2	27-23-02-07	eClass 7.1	27-23-02-07
eClass 8.1	27-23-02-07	eClass 9.0	27-23-02-07
eClass 9.1	27-21-01-90		

Product information

Descriptive text accessories	Cross-connector for power supplies and markers – refer to Accessories
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Approvals

Approvals



ROHS	Conform
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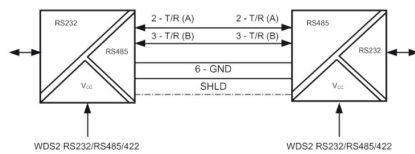
Downloads

Approval/Certificate/Document of Conformity	Declaration of Conformity
Brochure/Catalogue	CAT 4.1 ELECTR 16/17 EN
Engineering Data	EPLAN, WSCAD
User Documentation	Instruction sheet

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Drawings



RS232 Assignment	SW1							
	1	2	3	4				
DTE	☒	☐	☐	☐				
DCE	☐	☒	☐	☐				
Function	SW2							
Transmission speed	1	2	3	4	5	6	7	8
2,400 Baud	☒	☐	☐	☐				
4,800 Baud	☐	☒	☐	☐				
9,600 Baud	☐	☐	☒	☐				
19,200 Baud	☐	☐	☐	☒				
57,600 Baud	☒	☒	☐	☐				
115,200 Baud	☐	☐	☒	☐				
Operating modes								
RS485								☐
RS422								☒
4-wire					☒			
2-wire					☐			
Data direction control								
Auto						☒		
RTS						☐		
RTS normal							☐	
RTS inverse							☒	
Terminating resistances	SW3							
	1	2	3	4				
4-wire receiver	☒	☒	☐	☐				
4-wire transmitter	☐	☐	☒	☒				
2-wire	☒	☒	☒	☒				

☒ = on
☐ = off x = no influence

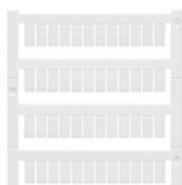
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Accessories

Blank



WS markers are the perfect match for the W-series connectors. Thanks to their system compatibility, the WS tags can also be used with the I-series and the Z-series. The large marking surfaces do not only permit long character strings but also multi-line text. WS markers are ideal for labels with long, customised character strings. Thanks to the proven MultiCard format, printing with laser printer, PrintJet ADVANCED, plotter or MC-Mobilo is possible.

- Can be fitted in strips or individually
- Markers in proven MultiCard format

General ordering data

Type	Order No.	Version	GTIN (EAN)	Qty.
WS 10/5 MC	1635000000	WS, Terminal marker, 10 x	4008190261948	720 pc(s).
NE WS		5 mm, Pitch in mm (P): 5.00		
		Weidmueller, Allen-Bradley,		
		White		

ZQV 2.5N



Spring connection with tension clamp Technology

Tension clamp technology is a universal contact system for all common conductor connection types. Its fantastic level of flexibility makes the tension clamp a profitable alternative connection.

General ordering data

Type	Order No.	Version	GTIN (EAN)	Qty.
ZQV 2.5N/2	1717990000	Accessories, Cross-	4008190349295	60 pc(s).
BL		connector, 24 A		
ZQV 2.5N/2	1717900000	Accessories, Z-series, Cross-	4008190349288	60 pc(s).
RT		connector, 24 A		
ZQV 2.5N/2	1718080000	Accessories, Cross-	4008190349301	60 pc(s).
SW		connector, 24 A		
ZQV 2.5N/2	1693800000	Z-series, Cross-connector,	4008190883621	60 pc(s).
GE		24 A		