

WAVESERIES
WDS2 RS232/RS485/422

Weidmüller Interface GmbH & Co. KG
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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.	861570000
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	Width	22.5 mm
Height	112.4 mm	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	KLBU 4-6/Z1	Status indicator	LED green: supply voltage, TxD, RxD
Transmission channels	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 %
Type of connection	Screw connection		

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	2	Rated voltage	between adjacent electric circuits: 300 V between electric circuits and PE: 150 V
Standards	DIN EN 50178, DIN EN 61000-4-2	Surge voltage category	III

Classifications

ETIM 3.0	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		

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Data sheet**WAVESERIES
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Technical data**Product information**

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

Approvals

Approvals



ROHS Conform

Downloads

Package insert [instruction sheet.pdf](#)
Declaration of Conformity [K250_06_09.pdf](#)
EPLAN [8615700000.ema](#)
[3-D model](#)

Data sheet

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Drawings

