

**WAVESERIES  
WAS5 PRO Bridge**

**Weidmüller Interface GmbH & Co. KG**  
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The WAS/WAZ5 PRO Bridges (in the compact 17.5 mm wide WAVEBOX housing) are bridge measuring transducers which import the signals from a Wheatstone bridge and convert them into standardised analogue values.

The converters have complete 3-way isolation and can be configured as needed using their DIP switches. They provide a precise bridge power supply with diverse calibration options.

A change in the resistance of the measuring bridge is detected immediately and imported. The 24 V DC power supply can be cross-connected using ZQV 2.5N plug-in cross-connectors.

The WAS/WAZ5 PRO Bridge bridge measuring transformers come with either a screw or tension-clamp wire connection.

Typical applications include force, weight and torsion measurements.

**General ordering data**

Type	WAS5 PRO Bridge
Order No.	<a href="#">858120000</a>
Version	Measuring bridge converter, Screw connection
GTIN (EAN)	4032248234509
Qty.	1 pc(s).

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## Technische Daten

### Dimensions and weights

Length	92.4 mm	Width	17.5 mm
Depth	112.4 mm	Weight	100 g
Net weight	131 g		

### Temperatures

Operating temperature	0 °C...+55 °C	Storage temperature	-20 °C...+85 °C
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### Input

Supply voltage	24 V DC $\pm$ 20 %	Bridge supply voltage	+10 V, +5 V, 4.8...10.2 V; offset adjustable; max. 40 mA
Number of inputs	1	Input resistance, voltage	> 1 M $\Omega$
Sensor	Resistance measuring bridge		

### Output

Wire break detection	Output: 0 V or 0/4 mA	load impedance voltage	$\geq$ 1 k $\Omega$
Number of outputs	1	load impedance current	$\leq$ 600 $\Omega$
Offset voltage	max. 0.05 V	Offset current	max. 100 $\mu$ A
Status indicator	Green LED	Output voltage, note	0...5 V, 5...0 V, 10...0 V, 0...10 V
Output current	0...20 mA, 20...0 mA, 4...20 mA, 20...4 mA		

### General data

Accuracy	0.3 % of output range	Configuration	DIP switch, Potentiometer
Current-carrying capacity of cross-connect.	$\leq$ 2 A	Galvanic isolation	3-way isolator
Input/Output	configurable	Mounting rail	TS 35
Power consumption	Max. 1.9 W at I <sub>OUT</sub> = 20 mA	Step response time	typ. < 200 ms
Supply voltage	24 V DC $\pm$ 20 %	Temperature coefficient	$\pm$ 250 ppm/K of output range
Type of connection	Screw connection		

### Insulation coordination

Clearance & creepage distances	$\geq$ 3 mm	EMC standards	EN 61000-6 /-2
Galvanic isolation	3-way isolator	Impulse withstand voltage	4 kV
Insulation voltage	2 kV <sub>eff</sub> / 5 s	Insulation voltage input or output/rail	4 kV <sub>eff</sub> / 1 min.
Insulation voltage input or output/supply	2 kV <sub>eff</sub> / 5 s	Pollution severity	2
Rated voltage	300 V	Standards	DIN EN 50178, DIN EN 61000-4-2
Surge voltage category	III		

### Classifications

UNSPSC	31-12-10-07	eClass 5.1	27-21-01-20
eClass 6.2	27-21-01-20	eClass 7.1	27-21-01-20

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**Technische Daten****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      [Declaration of Conformity.pdf](#)  
EPLAN      [8581200000.ema](#)

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**Zeichnungen**

**Electric symbol**

