

**WAVESERIES
WAS5 PRO BRIDGE****Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

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www.weidmueller.com



Bridge measurement isolator/converter with auxiliary power supply: converts signals from a Wheatstone bridge into standardised analogue values.

Typical applications include force, weight and torsion measurements. The bridge measuring transformers provide a precise excitation voltage for the external measurement bridges. They also convert the input measurement into an electrically isolated DC standardised signal. Resistance changes on the measurement bridge are immediately recognised and registered.

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General ordering data

Delivery status	This article will no longer be available in the future.
Available until	2019-05-31
Type	WAS5 PRO BRIDGE
Order No.	8581200000
Version	Measuring bridge converter, Screw connection
GTIN (EAN)	4032248234509
Qty.	1 pc(s).
Alternative product	1067250000

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Technical data

Dimensions and weights

Length	92.4 mm	Length (inches)	3.638 inch
Width	17.5 mm	Width (inches)	0.689 inch
Depth	112.4 mm	Depth (inches)	4.425 inch
Weight	100 g	Net weight	131 g

Temperatures

Operating temperature, max.	55 °C	Operating temperature, min.	0 °C
Storage temperature, max.	85 °C	Storage temperature, min.	-20 °C
Operating temperature	0 °C...55 °C	Storage temperature	-20 °C...85 °C

Environmental Product Compliance

REACH SVHC	Lead 7439-92-1
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Input

Number of inputs	1	Sensor	Resistance measuring bridge
Input resistance, voltage		Input measurement range	0...10 mV, 0...20 mV, 0...50 mV, 0...100 mV, 0...200 mV, 0...500 mV, -10...+10 mV, -20...+20 mV, -50...+50 mV, -100...+100 mV, -200...+200 mV, -500...+500 mV
Bridge supply voltage	> 1 MΩ +10 V, +5 V, 4.8...10.2 V; offset adjustable; max. 40 mA		

Output

Number of outputs	1	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	Wire break detection	Output: 0 V or 0/4 mA
load impedance voltage	≥ 1 kΩ	load impedance current	≤ 600 Ω
Offset voltage	max. 0.05 V	Offset current	max. 100 µA
Status indicator	Green LED		

General data

Accuracy	0.3 % of output range	Configuration	DIP switch, Potentiometer
Current-carrying capacity of cross-connect.	≤ 2 A	Galvanic isolation	3-way isolator
Power consumption	max. 1.9 W at I _{OUT} = 20 mA	Rail	TS 35
Step response time	typ. < 200 ms	Temperature coefficient	± 250 ppm/K of output range
Voltage supply	24 V DC ± 20 %		

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Insulation coordination

Clearance & creepage distances	≥ 3 mm	EMC standards	EN 61000-6 /-2
Galvanic isolation	3-way isolator	Impulse withstand voltage	4 kV
Insulation voltage	2 kV _{eff} / 5 s	Insulation voltage input or output/rail	4 kV _{eff} / 1 min.
Insulation voltage input or output/supply	2 kV _{eff} / 5 s	Pollution severity	2
Rated voltage	300 V	Surge voltage category	III

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, min.	0.5 mm ²
Clamping range, max.	2.5 mm ²		

Ratings IECEx/ATEX/cUL

Certificate no. (cULus)	E141197
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Classifications

ETIM 6.0	EC002653	ETIM 7.0	EC002653
eClass 9.0	27-21-01-20	eClass 9.1	27-21-01-90
eClass 10.0	27-21-01-20	UNSPSC	31-12-10-07

Approvals

Approvals



ROHS	Conform
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Downloads

Approval/Certificate/Document of Conformity	Declaration of Conformity
Engineering Data	EPLAN, WSCAD
User Documentation	Instruction sheet

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Drawings

Electric symbol

