

WAVESERIES WAS5 OLP

Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 16

D-32758 Detmold

Germany

Fon: +49 5231 1429-0

Fax: +49 5231 14292083

www.weidmueller.com



When used for industrial monitoring applications, sensors can record ambience conditions. Sensor signals are used within the process to continually track changes to the area being monitored. Both digital and analogue signals can occur.

Normally an electrical voltage or current value is produced which corresponds proportionally to the physical variables that are being monitored. Analogue signal processing is required when automation processes have to constantly maintain or reach defined conditions. This is particularly significant for process automation applications. Standardised electrical signals are typically used for process engineering. Analogue standardised currents / voltage 0(4)...20 mA/ 0...10 V have established themselves as physical measurement and control variables.

Weidmüller meets the ever increasing challenges of automation and offers a product portfolio tailored to the requirements of handling sensor signals in analogue signal processing

The analogue signal processing products can be used universally in combination with other Weidmüller products and in combination among each other. Their electrical and mechanical design is such that they require only minimal wiring efforts.

Housing types and wire-connection methods matched to the respective application facilitate the universal use in process and industrial automation applications.

The product line includes the following functions:

- Isolating transformers, supply isolators and signal converters for DC standard signals
- Temperature measuring transducers for resistance thermometers and thermocouples,
- frequency converters,
- potentiometer-measuring-transducers,
- bridge measuring transducers (strain gauges)
- trip amplifiers and modules for monitoring electrical and non-electrical process variables
- AD/DA converters
- displays
- calibration devices

General ordering data

The products mentioned are available as pure signal converters / isolation transducers, 2-way/3-way isolators, supply isolators, passive isolators or as trip amplifiers.

Order No.	8543720000
Version	Signal converter/insulator, Screw connection
GTIN (EAN)	4032248180752
Qty.	1 pc(s).

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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
Net weight	87.4 g		

Temperatures

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

MTTF	366 Jahre
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Input

Number of inputs	1	Input voltage	0...(5)10 V
Input resistance, voltage	0...5 V: 210 kΩ; 0...10 V: 430 kΩ	Input current	0...20 mA, 4...20mA
Input resistance, current	51 Ω		

Output

Number of outputs	1	Output signal limit	Approx. 31 mA
Output current	4...20 mA (current loop)	Cut-off frequency (-3 dB)	10 Hz/ 100 Hz switchable
load impedance current	$R_L = (U_B - 12 V) / 20 mA$ z.B. 600 Ω at 24 V	Status indicator	Green LED

General data

Accuracy	0.2% of measuring range final value	Configuration	DIP switch
Galvanic isolation	Passive isolator	Input/Output	0(4)...20 mA, 0...(5)10 V / 4...20 mA (current loop)
Mounting rail	TS 35	Step response time	< 10 Hz: 80 ms; 100 Hz: 50 ms
Supply voltage	min. 12 V DC/ max. 30 V DC, Loop powered, via 4...20 mA input	Temperature coefficient	≤ 150 ppm/K

Insulation coordination

Clearance & creepage distances	≥ 5.5 mm	EMC standards	EN 55011, EN 61000-6
Galvanic isolation	Passive isolator	Impulse withstand voltage	4 kV
Insulation voltage	4 kV _{eff} / 5 s	Insulation voltage input or output/rail	4 kV _{eff} / 1 min.
Pollution severity	2	Rated voltage	300 V
Standards	DIN EN 50178, DIN EN 61000-4-2	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, rated connection, min.	0.5 mm ²
Clamping range, rated connection, max.	2.5 mm ²		

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Classifications

ETIM 4.0	EC002653	ETIM 5.0	EC002653
ETIM 6.0	EC002653	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	eClass 8.1	27-21-01-20
eClass 9.0	27-21-01-20	eClass 9.1	27-21-01-20

Product information

Product information	This product will soon be replaced by a new product. Please do not use with new systems. Please contact our technical support.
Descriptive text accessories	Markers – refer to Accessories.

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

Data sheet

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Drawings

Electric symbol

