

WAVESERIES WAS5 CCC 2OLP

Weidmüller Interface GmbH & Co. KG
 Klingenbergstraße 26
 D-32758 Detmold
 Germany
 Fon: +49 5231 14-0
 Fax: +49 5231 14-292083
www.weidmueller.com



The ACT20M-CI-CO-OLP, WAS/WAZ5 OLP signal isolator/splitter (2-wire system) is supplied via the output current loop and has an analogue DC current input. The 1- and 2-channel signal isolators are supplied from the current loop. They are available in the 6.1 mm (ACT20M series) or 17.5 mm (WAVESERIES) housings. The input and output circuits are electrically isolated from each other.

The power is supplied via the 4–20 mA current loop on the output side.

The devices come optionally in a splitter version with two loop-fed outputs.

The devices can be mounted on a DIN rail and consume minimal power.

International approvals (such as ATEX Zone 2, UL C1D2 and FM Div2) permit use in explosion-risk zones.

Signal converters with output-loop power supplies are used in a variety of application processes as signal isolators and signal multipliers (splitters) and signal amplifiers. They can be used to eliminate measurement errors caused by differences in earth potentials.

General ordering data

Delivery status	This article will no longer be available in the future.
Available until	2019-08-31
Type	WAS5 CCC 2OLP
Order No.	8581160000
Version	Signal converter/insulator, Input : 4-20 mA, Output : 2 x 4-20 mA, (loop powered)
GTIN (EAN)	4032248234462
Qty.	1 pc(s).
Alternative product	7760054122

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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	87.5 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

Probability of failure

MTTF	228 Jahre
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Environmental Product Compliance

REACH SVHC	Lead 7439-92-1
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Input

Number of inputs	1	Input current	4...20 mA (current loop)
Voltage drop	3.8 V		

Output

Number of outputs	2	Output signal limit	Approx. 31 mA
Output current	2 x 4...20 mA (current loop)	Cut-off frequency (-3 dB)	30 Hz
Load impedance current	$R_L = (U_B - 12 \text{ V}) / 20 \pm 20 \text{ mA}$, e.g. 600 Ω at 24 V	Status indicator	Green LED

General data

Accuracy	typ. 0.1 %; max 0.2 %	Configuration	none
Galvanic isolation	Passive isolator	Input/Output	4...20 mA/ 2 x 4...20 mA
Rail	TS 35	Step response time	< 20 ms
Temperature coefficient	$\leq 150 \text{ ppm/K}$	Voltage supply	min. 12 V DC/ max. 30 V DC

Insulation coordination

Clearance & creepage distances	$\geq 5.5 \text{ mm}$	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.
Insulation voltage input or output/supply	4 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		

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Classifications

ETIM 6.0	EC002653	ETIM 7.0	EC002653
eClass 9.0	27-21-01-20	eClass 9.1	27-21-01-20
eClass 10.0	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.

Approvals

Approvals



ROHS

Conform

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

Connection diagram

