

## WAS1 CMA LP 1/5/10A EX

**Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

[www.weidmueller.com](http://www.weidmueller.com)



Output current loop fed AC current monitoring components WAS/WAZ1 CMA LP.

They can measure single-phase 50/60 Hz AC currents of up to 10 A using the Root Mean Square (RMS) method on the input side. They can also be switched between three ranges. No external power supply is used; the supply is only via the 4...20 mA current loop on the output side.

The input and output circuits are securely isolated with 4 kV.

The monitoring components come in a 17.5-mm-wide WAVEBOX housing. These devices can be used in many process automation applications because they are not dependent on an external power supply.

International approvals (such as ATEX Zone 2 and UL C1D2) also permit usage in explosion-risk zones.

### General ordering data

Version	Current monitoring, Input current: 0...1 A AC/ 0...5 A AC/ 0...10 A AC, Output : 4-20 mA, (loop powered)
Order No.	<a href="#">8975590000</a>
Type	WAS1 CMA LP 1/5/10A EX
GTIN (EAN)	4050118023640
Qty.	1 pc(s).

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## Technical data

### Dimensions and weights

Depth	112.4 mm	Depth (inches)	4.425 inch
Width	22.5 mm	Width (inches)	0.886 inch
Length	72 mm	Length (inches)	2.835 inch
Net weight	101 g		

### Temperatures

Storage temperature	-20 °C...70 °C	Operating temperature	0 °C...50 °C
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### Environmental Product Compliance

REACH SVHC	Lead 7439-92-1	SCIP	c2a21576-d875-4548-ae68-5e7f85ddf0c7
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### Input

Input current	0...1 A AC/ 0...5 A AC/ 0...10 A AC	Input frequency	50...60Hz
Number of inputs	1		

### Output

Load impedance current	≤ 600 Ω	Number of outputs	1
Offset current	max. 100 µA	Output current	4...20 mA (current loop)
Output signal limit	Approx. 24 mA	Status indicator	LED ON: OK; LED flashing: signal out of range; LED OFF: Error

### General data

Accuracy	0.5 % FSR	Configuration	DIP switch
Galvanic isolation	2-way isolator	Input/Output	1 /5/ 10 A AC / 4...20 mA (current loop)
Rail	TS 35	Step response time	typ. 700 ms
Temperature coefficient	≤ 200 ppm/K	Type of connection	Screw connection
Voltage supply	13...30 V DC, via output current loop		

### Insulation coordination

Clearance & creepage distances	≥ 5.5 mm	EMC standards	EN 55011, EN 61000-6
Galvanic isolation	2-way isolator	Impulse withstand voltage	6 kV
Insulation voltage	4 kV <sub>eff</sub> / 5 s	Pollution severity	2
Rated voltage	300 V	Surge voltage category	III

### Connection data

Type of connection	Screw connection	Clamping range, rated connection	2.5 mm <sup>2</sup>
Clamping range, min.	0.5 mm <sup>2</sup>	Clamping range, max.	2.5 mm <sup>2</sup>

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**Technical data****Classifications**

ETIM 6.0	EC002653	ETIM 7.0	EC002653
ETIM 8.0	EC002653	ECLASS 9.0	27-21-01-20
ECLASS 9.1	27-21-01-20	ECLASS 10.0	27-21-01-20
ECLASS 11.0	27-21-01-20	ECLASS 12.0	27-21-01-20

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## Technical data

### Tender specification sheets

Long specification

Short specification

**Monitoring component for AC currents up to 10A with 4...20 mA loop feed and electrical isolation**  
**Current monitoring component in 22.5 mm width for recording 50/ 60 Hz AC currents 0...1 A / 0...5 A / 0...10 A. Input range can be selected using DIP switches. Power is fed to the component via the 4...20 mA current loop on the output side. The input and output circuits have 6 kV of electrical isolation. Approved for ATEX Zone2 and UL C1 D2 applications.**

**Add-on housing for TS35 rail mounting**  
**Dimensions: L/W/H 72/ 22.5/ 92.4 mm**  
**Screw connection / Nominal cross-section 2.5 mm<sup>2</sup>**  
**Protection degree: IP 20**  
**Input 0...1 A / 0...5 A / 0...10 A AC switchable**  
**50 / 60 Hz**  
**Voltage of measuring circuit 250 V AC**  
**Output 4...20 mA current loop**  
**Load resistance < 600 Ohm Strom >1 kOhm / voltage**  
**Transmission error < 0,5% v. E.**  
**Temperature coefficient 200 ppm / K**  
**Step response time typ. 700 ms**  
**Auxiliary power via output-side current loop**  
**Ambient temperature range 0 °C...+50 °C**

**Secure isolation EN 50178, 2-way isolation up to 6 kV**  
**Test voltage 4**

**kV input against output Rated voltage**

**300 V AC/DC at overvoltage category III and pollution degree 2**

**Monitoring component for AC currents up to 10A with 4...20 mA loop feed and electrical isolation**  
**Current monitoring component in 22.5 mm width for recording 50/ 60 Hz**

**AC currents 0...1 A / 0...5 A / 0...10 A. Input range can be selected using DIP switches. Power is fed to the component via the**

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### Important note

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
UL File Number Search	UL Website
Certificate no. (cULusEX)	E223527

### Downloads

Approval/Certificate/Document of Conformity	<a href="#">Declaration of Conformity</a>
User Documentation	<a href="#">Instruction sheet</a>
Catalogues	<a href="#">Catalogues in PDF-format</a>
Brochures	

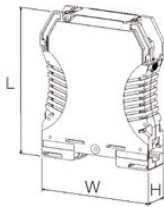
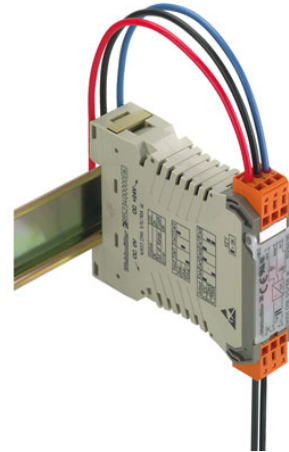
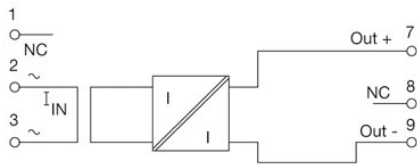
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**Drawings**

**Electric symbol**



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