

# Current Monitoring

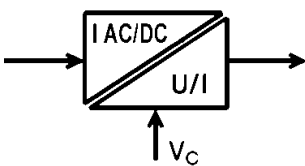
## WAVECONTROL

- Input and output range adjustable via DIP switch
- No calibration required
- True TRMS value measurements
- Hall sensor measurement method

## Approvals:



### Block diagram

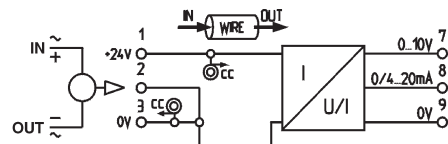


Input/Output configurable

Ordering data	
Screw connection	
Tension clamp connection	
Technical data*	
Input	
Input current	
Input frequency	
Accuracy	
Measuring principle	
Connection type	
Pass through diameter	mm (in.)
Measurement circuit voltage	
Max. measuring circuit	
Output	
Current/voltage selectable	
Output voltage	
Offset voltage	
Load resistance	
Output signal limit	
Output current	
Offset current	
Load resistance	
Status LED	
Temperature coefficient	
Response time (10...90%)	
Coordination of insulation acc. to DIN EN 50178, 04/98 (safe separation)	
Rated voltage	
Surge voltage	
Overtoltage category	
Contamination class	
Clearance and creepage distance	mm (in.)
Test voltage	
General	
Supply	
Supply voltage	
Power consumption at rated voltage	
Reverse polarity protection	
Operating temperature range	
Storage/transport	
Factory setting	
Dimensions W/L/H	mm (in.)
Weight	
Approvals	
Dimensions and accessories see	

## WAS2 CMA WAZ2 CMA

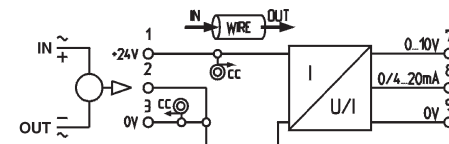
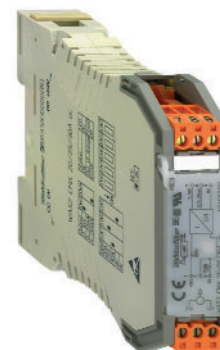
5/10A AC/DC selectable with analog output  
0...20 mA/  
4...20 mA/  
0...10 V



Type	Part No.
WAS2 CMA 5/10A AC/DC	8526610000
WAZ2 CMA 5/10A AC/DC	8526620000
5 A uc/10 A uc selectable (without additional adjustment)	
0 Hz - 2 kHz (True RMS to DC Converter)	
1% (0 Hz - 1 kHz) Crest factor 3 FSR	
2% (0 Hz - 2 kHz) Crest factor 5 FSR	
Contact-free current monitoring using Hall sensor	
Push-through connection	
8 (.31)	
400 VAC, higher voltages dependent on wire insulation	
dependent on wire cross-section	
0...10 V	
0...20 mA	
4...20 mA	
0...10 V	
max. 0.08 V	
≥1 KΩ	
approx. 13 V and. 24 mA	
0/4...20 mA	
max. 150 μA	
≤ 600 Ω	
green LED	
ON-> OK; blinks -> signal out of range; OFF -> Error	
≤ 650 ppm/K	
typ. 700 ms	
300 V	
6 KV	
III	
2	
≥ 5.5 (.27)	
4 kV <sub>eff</sub>	
21.6 VDC...24 VDC...26.4 VDC	
50 mA at I <sub>out</sub> = 20 mA	
yes	
0°C...+50°C	
-20...+70°C	
0...5A uc; 4...20 mA	
22.5/92.4/112.4 (.89/3.64/4.43)	
150 g	
CE, UL	
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## WAS2 CMA WAZ2 CMA

20/25/30A AC/DC selectable with analog output  
0...20 mA/  
4...20 mA/  
0...10 V



Type	Part No.
WAS2 CMA 20/25/30A AC/DC	8545830000
WAZ2 CMA 20/25/30A AC/DC	8545840000
20/25/30 A uc selectable (without additional adjustment)	
0 Hz - 2 kHz (True RMS to DC Converter)	
1% (0 Hz - 1 kHz) Crest factor 3 FSR	
2% (0 Hz - 2 kHz) Crest factor 5 FSR	
Contact-free current monitoring using Hall sensor	
Push-through connection	
8 (.31)	
400 VAC, higher voltages dependent on wire insulation	
dependent on wire cross-section	
0...10 V	
0...20 mA	
4...20 mA	
0...10 V	
max. 0.08 V	
≥1 KΩ	
approx. 13 V and. 24 mA	
0/4...20 mA	
max. 150 μA	
≤ 600 Ω	
green LED	
ON-> OK; blinks -> signal out of range; OFF -> Error	
≤ 650 ppm/K	
typ. 700 ms	
300 V	
6 KV	
III	
2	
≥ 5.5 (.27)	
4 kV <sub>eff</sub>	
21.6 VDC...24 VDC...26.4 VDC	
50 mA at I <sub>out</sub> = 20 mA	
yes	
0°C...+50°C	
-20...+70°C	
0...25 A uc; 4...20mA	
92.4/112.4/22.5	
150 g	
CE, UL	
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\* T<sub>U</sub> = 23°C single module