

## MICROSERIES MAS RPS

**Weidmüller Interface GmbH & Co. KG**  
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The externally supplied ACT20M-CI-CO, MAS RPS/RPSH, MCZ CFC and WAS/WAZ 4/5 C signal converters/supply isolators can transmit, isolate and convert standardised

DC current signals. They are optionally available in widths of 6 mm (ACT20M/MCZ), 12.5 mm (WAS/WAZ4) or 17.5 mm (WAS/WAZ5).

The input and output circuits are completely electrically isolated, as is the power supply.

The input signal is converted into a DC current/voltage value (ACT20M, WAS/WAZ) or into a proportional frequency (MCZ CFC) between 0–1/4/8/16 kHz.

The WAVESERIES signal converters are available with a limiting frequency of either 10 Hz (WAS/WAZ4) or 20 kHz (WAS/WAZ5) so that they can process signals quickly.

The MAS/RPS/RPSH supply isolator can supply 2-wire sensors externally. They can also be used optionally to transmit the HART protocol (MAS RPSH).

The 24 VDC supply voltage can be cross-connected on the module side via the CH20M BUS profile (ACT20M series) or using the ZQV4N (MAS/MCZ) or ZQV 2.5N (WAS/WAZ) pluggable jumpers.

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

### General ordering data

Type	MAS RPS
Order No.	<a href="#">8721150000</a>
Version	MICROSERIES, Supply isolator
GTIN (EAN)	4032248394418
Qty.	1 pc(s).

## Data sheet

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## Technical data

### Dimensions and weights

Length	88 mm	Width	6.1 mm
Height	97.8 mm	Net weight	48 g

### Temperatures

Operating temperature	0 °C...+55 °C	Storage temperature	-25 °C...+85 °C
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### Probability of failure

MTTF	450 Years
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### Input

Sensor supply	16.5 V / constant for 3 – 22 mA	Supply voltage	24 V DC ± 15 %
Input current	4...20 mA	Number of inputs	1
Sensor	2-wire		

### Output

Number of outputs	1	load impedance current	≤ 500 Ω
Offset current	< 30 µA	Output signal limit	22...25 mA
Output current	4...20 mA		

### General data

Accuracy	< 0,1 %	Configuration	none
Current-carrying capacity of cross-connect.	≤ 20 A	Galvanic isolation	3-way isolator
Input/Output	4...20 mA/ 4...20 mA	Mounting rail	TS 35
Power consumption	ca. 1 W	Step response time	≤ 2 ms
Supply voltage	24 V DC ± 15 %	Temperature coefficient	≤ 50 ppm/K
Type of connection	Screw connection		

### Insulation coordination

EMC standards	DIN EN 61326 Class B	Galvanic isolation	3-way isolator
Insulation voltage	1.5 kV <sub>eff</sub>	Pollution severity	2
Rated voltage	300 V	Standards	DIN EN 61010-1, DIN EN 60079, DIN EN 61326-1
Surge voltage category	II		

### Classifications

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

### Product information

Descriptive text accessories	Cross-connectors for power supplies and markers – refer to Accessories
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**Technical data****Approvals**

Approvals



ROHS

Conform

**Downloads**

Package insert	<a href="#">instruction sheet.pdf</a>
Declaration of Conformity	<a href="#">Declaration of Conformity.pdf</a>
EPLAN	<a href="#">8721150000.ema</a>
<a href="#">3-D model</a>	

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**Drawings**

**Electric symbol**

