

MICROSERIES MAS DC/DC select

Weidmüller Interface GmbH & Co. KG
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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.	MAS DC/DC select 8594810000
Version	MICROSERIES, Signal converter/insulator
GTIN (EAN)	4032248252442
Qty.	1 pc(s).

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Technical data**Dimensions and weights**

Length	88 mm	Length (inches)	3.465 inch
Width	6.1 mm	Width (inches)	0.24 inch
Depth	97.8 mm	Depth (inches)	3.85 inch
Net weight	52 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	440 Years
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Input

Number of inputs	1	Input voltage	0...10 V
Input resistance, voltage	100 kΩ	Input current	0...20 mA, 4...20 mA
Input resistance, current	≤ 5 Ω	Voltage drop	< 0.1 V @ I _{IN} = 20 mA (current input)

Output

Number of outputs	1	Output voltage, note	0...10 V
Output current	0...20 mA, 4...20 mA	Cut-off frequency (-3 dB)	> 100 Hz
load impedance voltage	≥ 10 kΩ	load impedance current	≤ 500 Ω

General data

Current-carrying capacity of cross-connect.	≤ 20 A	Galvanic isolation	3-way isolator
Input/Output	configurable	Mounting rail	TS 35
Power consumption	ca. 0.6 W	Supply voltage	24 V DC ± 15 %
Temperature coefficient	≤ 150 ppm/K of of final value		

Insulation coordination

EMC standards	DIN EN 61326	Galvanic isolation	3-way isolator
Insulation voltage	500 V _{eff} / 1 s	Insulation voltage input or output/rail	500 V _{eff} / 1 s
Insulation voltage input or output/supply	500 V _{eff} / 1 s	Pollution severity	2
Rated voltage	50 V	Surge voltage category	II

Connection data

Type of connection	Screw connection	Clamping range, rated connection	2.5 mm ²
Clamping range, min.	0.5 mm ²	Clamping range, max.	2.5 mm ²

Data sheet

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Technical data

Classifications

ETIM 3.0	EC001774	ETIM 4.0	EC002653
ETIM 5.0	EC002653	ETIM 6.0	EC002653
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	27-21-01-90		

Product information

Descriptive text accessories Cross-connectors for power supplies and markers – refer to Accessories

Approvals

Approvals



ROHS Conform

Downloads

Approval/Certificate/Document of Conformity	Declaration of Conformity
Engineering Data	EPLAN, WSCAD
User Documentation	Instruction sheet

Data sheet

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Drawings

Electric symbol

