

## MICROSERIES MAZ DC/DC select

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### Product image



**Do not use product for new developments**



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

converter/insulator

4032248252473

1 pc(s).

- displays
- calibration devices

The products mentioned are available as pure signal converters / isolation transducers, 2-way/3-way isolators, supply isolators, passive isolators or as trip amplifiers.

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**Technical data**
**Dimensions and weights**

|            |         |                 |            |
|------------|---------|-----------------|------------|
| Length     | 92 mm   | Length (inches) | 3.622 inch |
| Width      | 6.1 mm  | Width (inches)  | 0.24 inch  |
| Depth      | 97.8 mm | Depth (inches)  | 3.85 inch  |
| Net weight | 43 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 |
|------|-----------|

**Environmental Product Compliance**

|            |                |
|------------|----------------|
| REACH SVHC | Lead 7439-92-1 |
|------------|----------------|

**Rated data UL**

|                         |         |
|-------------------------|---------|
| Certificate No. (cURus) | E175400 |
|-------------------------|---------|

**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 <sub>IN</sub> = 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**

|                         |                            |                                             |                |
|-------------------------|----------------------------|---------------------------------------------|----------------|
| Accuracy                | < 0.5 % of end value       | Current-carrying capacity of cross-connect. | ≤ 20 A         |
| Galvanic isolation      | 3-way isolator             | Input/Output                                | configurable   |
| Power consumption       | ca. 0.6 W                  | Rail                                        | TS 35          |
| Temperature coefficient | ≤ 150 ppm/K of final value | Voltage supply                              | 24 V DC ± 15 % |

**Insulation coordination**

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

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## Technical data

### Connection data

|                      |                          |                                  |                     |
|----------------------|--------------------------|----------------------------------|---------------------|
| Type of connection   | Tension-clamp connection | Clamping range, rated connection | 1.5 mm <sup>2</sup> |
| Clamping range, min. | 0.5 mm <sup>2</sup>      | Clamping range, max.             | 2.5 mm <sup>2</sup> |

### Classifications

|            |             |            |             |
|------------|-------------|------------|-------------|
| ETIM 3.0   | EC001774    | ETIM 4.0   | EC002653    |
| ETIM 5.0   | EC002653    | ETIM 6.0   | EC002653    |
| 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 |
| eClass 8.1 | 27-21-01-20 | eClass 9.0 | 27-21-01-20 |
| eClass 9.1 | 27-21-01-90 |            |             |

### Approvals

Approvals



ROHS

Conform

### Downloads

|                                             |                                           |
|---------------------------------------------|-------------------------------------------|
| Approval/Certificate/Document of Conformity | <a href="#">Declaration of Conformity</a> |
| Engineering Data                            | <a href="#">EPLAN, WSCAD</a>              |
| User Documentation                          | <a href="#">Instruction sheet</a>         |

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## Drawings

### Electric symbol

