

WAVESERIES

WAS5 CCC LP 0-20/0-20mA

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The ACT20M-CI-CO-ILP, MCZ CCC and WAS5 CCC LP are 1/2-channel passive isolators that are supplied via the input loop current. They are optionally available in 6 mm (ACT20M/ MCZ series) or 17.5 mm (WAS5 CCC LP) housings.

The input and output circuits are completely, electrically isolated from each other. The passive isolators are designed with 1 or 2 channels. International approvals (such as ATEX Zone 2, UL C1D2 and FM Div2) permit use in explosion-risk zones.

Passive isolators are used to electrically isolate normalised signals (from 0/4 to 20 mA). The modules get their power supply from the current loop on the input side. The power for signal transmission and supply comes from the active 0/4–20 mA signal. They have very low current consumption and can be used anywhere in the field where no suitable power supply is available.

These devices are used in a variety of application processes as signal isolators and signal multipliers. They can be used to eliminate measurement errors caused by differences in earth potentials.

General ordering data

| | |
|------------|------------------------------------|
| Type | WAS5 CCC LP 0-20/0-20mA |
| Order No. | 8463580000 |
| Version | Passive isolator, Screw connection |
| GTIN (EAN) | 4032248049455 |
| Qty. | 1 pc(s). |

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Technical data
Dimensions and weights

| | | | |
|--------|----------|------------|---------|
| Length | 92.4 mm | Width | 17.5 mm |
| Depth | 112.4 mm | Net weight | 153 g |

Temperatures

| | | | |
|-----------------------|-----------------|---------------------|-----------------|
| Operating temperature | -25 °C...+70 °C | Storage temperature | -40 °C...+80 °C |
|-----------------------|-----------------|---------------------|-----------------|

Probability of failure

| | |
|------|-------------|
| MTTF | 1,049 Years |
|------|-------------|

Input

| | | | |
|------------------|----------|---------------|---|
| Pick-up current | < 100 µA | Input current | 0(4)...20 mA current loop |
| Number of inputs | 2 | Voltage drop | Approx. 3 V at $R_L = 0 \Omega$; approx. 13 V at $R_L = 500 \Omega$; ($I_N = 20 \text{ mA}$) |

Output

| | | | |
|-------------------|----------------------|------------------------|-------------------|
| Number of outputs | 2 | load impedance current | $\leq 500 \Omega$ |
| Output current | 0...20 mA, 4...20 mA | | |

General data

| | | | |
|--------------------|----------------------|-------------------------|--|
| Accuracy | < 0.1 % of end value | Configuration | none |
| Galvanic isolation | Passive isolator | Input/Output | 0(4)...20 mA/0(4)...20 mA (2-channel) |
| Mounting rail | TS 35 | Temperature coefficient | $\leq 50 \text{ ppm/K}$ of final value |
| Type of connection | Screw connection | | |

Insulation coordination

| | | | |
|--------------------------------|-----------------------------------|---|------------------------------|
| Clearance & creepage distances | $\geq 5.5 \text{ mm}$ | EMC standards | EN 55011, EN 61000-6 |
| Galvanic isolation | Passive isolator | Impulse withstand voltage | 6 kV |
| Insulation voltage | 4 kV_{eff} / 1 s | Insulation voltage input or output/rail | 4 kV_{eff} / 1 min. |
| Pollution severity | 2 | Rated voltage | 300 V |
| Standards | DIN EN 50178, DIN EN 61000-4-2 | Surge voltage category | III |

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 | Markers – refer to Accessories. |
|------------------------------|---------------------------------|

Data sheet**WAVESERIES
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Approvals



ROHS

Conform

Downloads

| | |
|---------------------------|---|
| Package insert | instruction sheet.pdf |
| Declaration of Conformity | Declaration of Conformity.pdf |
| EPLAN | 8463580000.ema |

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Drawings**Electric symbol**