The MC30-28-Li/24VDC current driver isolates, distributes and amplifies standard current signals. The card provides two isolated circuits, each with four 0/4...20 mA current outputs.

The input signal of one channel is isolated and passed 1:1 to the four outputs. For additional distribution, both circuits can be coupled (II) which will override the isolation between the channels.

All output circuits have a common minus potential for each channel.

- Galvanic isolation between input circuit, output circuit and power supply
- Two inputs for standard current signals 0/4...20 mA
- Four 0/4...20 mA current outputs for each channel
- Outputs isolated from each other
- 0/2...10 V front test socket for each channel
## Analogue Data Transmitters

<table>
<thead>
<tr>
<th>Type</th>
<th>MC30-28-Li/24VDC</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ident-No.</td>
<td>90 401 10</td>
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</table>

### Supply Voltage \( U_B \)
- 20.4...27.6 VDC
- Ripple \( W_{PP} \) \( \leq 10 \% \)
- Power/Current consumption \( \leq 250 \text{ mA} \)
- Galvanic isolation between both channels and supply voltage for 500 V

### Input Circuits
- Current inputs
- Input resistance \( 100 \text{ \Omega} \)
- Operating characteristics \( 0/4...20 \text{ mA} \)
- Maximum value \( 60 \text{ mA} \)

### Output Circuits
- 4 current outputs per channel with common minus potential
- Current outputs \( 0/4...20 \text{ mA} \)
- Load \( \leq 400 \Omega \)

### Test Sockets on Front Plate
- 1 per channel
- Output voltage \( 0/2...10 \text{ V}, \text{ short-circuit protected} \)
- Load resistance \( \geq 5 \text{ k\Omega} \)

### Transfer Characteristics
- Zero error \( \leq 0.025 \% \) of final value \( \leq 5 \mu\text{A} \)
- Conversion error \( \leq 0.1 \% \) of final value \( \leq 20 \mu\text{A} \)
- Effect of load impedance \( \leq 0.01 \% \) of final value
- Effect of supply voltage impedance negligible
- Ambient temperature sensitivity \( \leq 0.005 \% / \text{K} \) of final value
- Pulse rise time \( 10 \%...90\% \) \(< 50 \text{ ms} \)
- Pulse release time \( 90 \%...10\% \) \(< 50 \text{ ms} \)

### LED Indications
- Power "ON" green

### Eurocard
- 100 x 160 mm (DIN 41494)
- Material glass-fiber reinforced epoxy resin, quality class FR4
- Front panel plastic, \( 4\text{TE} = 20.32 \text{ mm} \)
- Connection connector per DIN 41612, type F, 32-pole (series z+d)
- Operating temperature -25...+60 °C