

**Available from:**

GBU Electrotech/Woertz-USA

151 Discovery Drive #112

Colmar, PA 18915

[www.gbuelectrotech.com](http://www.gbuelectrotech.com)

E-mail: [sales@gbuelectrotech.com](mailto:sales@gbuelectrotech.com)

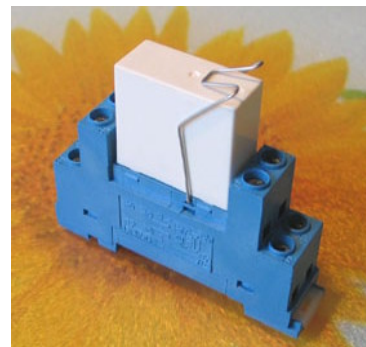
**Current / Voltage Converter**

**Features**

- Non isolated, well priced converters for industrial standard current 0..20mA or 4..20mA. Converts to 0..10V
- In **Electrobrick** plug-and-play enclosures (same shape as the common industrial relays).
- Compact, flexible and easily exchanged. Delivered on a DIN rail socket with quality screw terminals (standard or low-cost).
- Available without socket, for direct PCB mounting or for customer's choice of socket.
- With instrumentation amplifier for "floating input" (end side does not need to be tied to 0V, good if several inputs or instruments are put in serie)
- With low pass filter for suppression of 50-60 Hz and other noise.
- Current present (CP) diagnostic output (4-20mA version).
- Wide supply voltage range.
- On request: Input with allowance to exceed supply voltage (good for high compliance voltage transmitters)
- On request: converters for other input current, for voltage input, higher accuracy, other output voltage

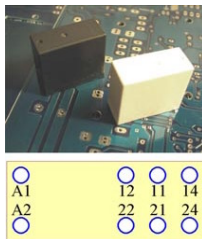


standard version

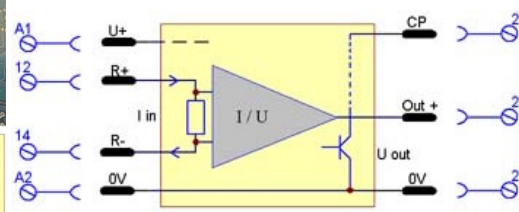


low-cost version

Optocoupler modules fixed on DIN rail sockets



Modules without sockets (bottom view)



Block diagram

**Available accessories**

**Technical data** (Ta = 25°C)

**Supply**

Power supply range  
Supply current (unloaded)

**Converter**

Input resistance  
Input voltage range (potential of R-)  
Conversion error  
  
Output load  
Low pass filter cut frequency  
Output "current present" (CP) detection

Max. voltage/ min. load resistance at CP output

**0-20mA input**

12-30VDC  
max. 10 mA (U+=24 V)

100 Ω  
0V to supply voltage (U+) minus 5V  
<0.5% (50mV)  
(typically <0.2%)  
> 1 kΩ  
approx. 15Hz

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**4-20mA input**

12-30VDC  
max. 10 mA (U+=24 V)

100 Ω  
0V to supply voltage (U+) minus 5V  
<0.5% (50mV)  
(typically <0.2%)  
> 1 kΩ  
approx. 15Hz  
Closes to ground (0V) when output current is more than approx. 1mA  
30V/ 1kΩ

**General data**

Module operating temperature range  
Max. wire cross section  
Socket max. size L x B x H  
Module max. size L x B x H (without pins)  
Module pins  
PCB hole size

0°C to +50°C  
6mm<sup>2</sup> (AWG10)  
Standard ver.: 16 x 82.5 x 72mm, Low-cost ver.: 16 x 68.5 x 50.5mm  
29x12.8x25.5mm  
gold plated, length ~5mm  
1.1mm

**Order numbers\*:**

**EB-C5-0-20mA-0-10V**

**EB-C5-4-20mA-0-10V**

\* **Sockets:** **O5..**= on standard DIN rail socket, **O5E..**= with low-cost socket included, **O5M..**= only module without socket  
Example: EB-C5-4-20mA-0-10V (4-20mA to 0-10V converter with low-cost socket)