

Data Sheet Accessory

Accessory

Series VIC



- Mounting directly on the cable
- 3 Channels for conversion from 0 to 5 V to 4 to 20 mA
- Stabilized 5 VDC output for sensor supply
- Operating temperature -20°C to +60°C

The voltage-current transformer VIC is a separate electronics box that can be ordered as an extension to MEGATRON sensors. The converter supplies the sensor with voltage and converts the voltage signal (0-5V) of the joystick or another sensor into a current signal of 4 to 20 mA. The current transformer can provide up to 3 analogue signals as current outputs. It is equipped with a Molex connector type 43650-0501.

Technical data

| | |
|--------------------------------|---|
| Supply voltage | 12 to 24 V |
| Current consumption | Dependent on use, sum of the following 1) basic consumption 40 mA 2) sum of currents per channel (4..20 mA, max. 30 mA) 3) consumption of sensor itself (max. 30 mA) |
| Output signal | 4 to 20 mA (max. 3 channels), 0..10 V optional |
| Operating temperature | -20°C to +60°C |
| Independent linearity | < ±1% |
| Temperature-dependent drift | < ±0.01%/°C |
| Insulation resistance | > 1000 MOhm at 500 VDC |
| Terminating resistor | 25 to 50 Ohm (Attention: this load resistance must be implemented at the customer's side!) |
| Connector (housing) | Molex 43650-0501 |
| Mounting notes | The converter box can be mounted by the customer using two M3 screws (see drawing for details). Tensile loads on the converter connections must be avoided. |
| Connector cable (not included) | 136368, VIC Connector Cable, 5 pin, length 300 mm |

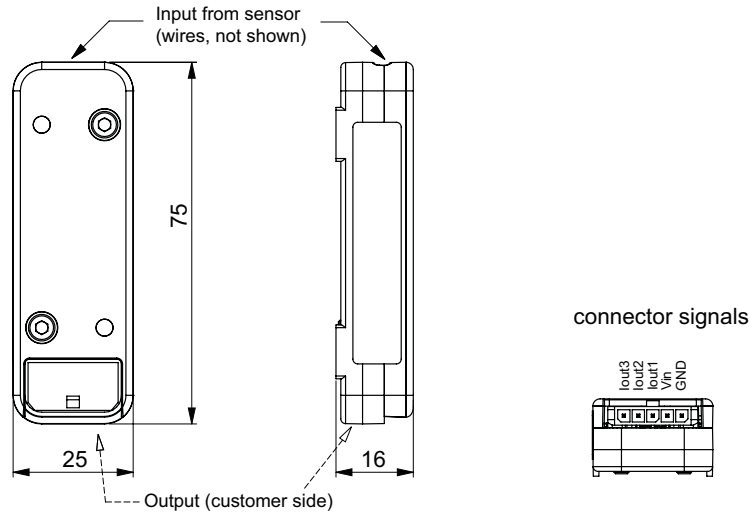
Immunity

| Port | Disturbance type | EMC Specification | Test Level |
|----------|----------------------|-------------------|-------------------------|
| Housing | ESD | IEC 61000-4-2 | 4 kV Contact / 8 kV Air |
| | Conducted Sinus Wave | IEC 61000-4-3 | 3 V/m 80 MHz - 6 GHz |
| DC Power | BURST | IEC 61000-4-4 | 1 kV (5 kHz) |
| | Conducted Sinus Wave | IEC 61000-4-6 | 3 V (150 kHz-80 MHz) |
| I/O | BURST | IEC 61000-4-4 | 1 kV (5 kHz) |
| | Conducted Sinus Wave | IEC 61000-4-6 | 3 V (150 kHz-80 MHz) |

Emission

| Port | Disturbance type | EMC Specification | Class |
|--------------|------------------|-------------------|-------|
| AC/ DC Power | Emission | CISPR 55011 | B |
| Housing | Emission | CISPR 55011 | B |

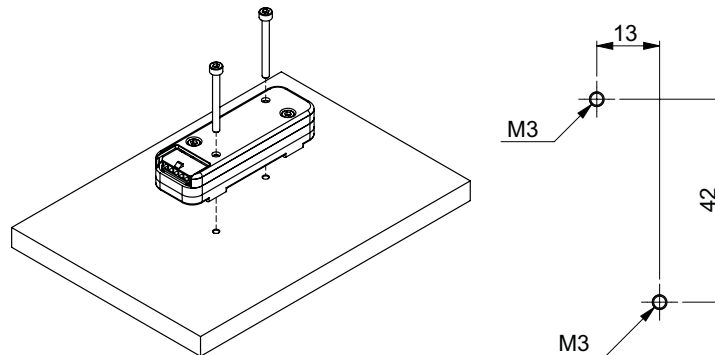
Technical drawing VIC



If fixation is needed, the VIC can be mounted:

2 screws M3 (length >20 mm)

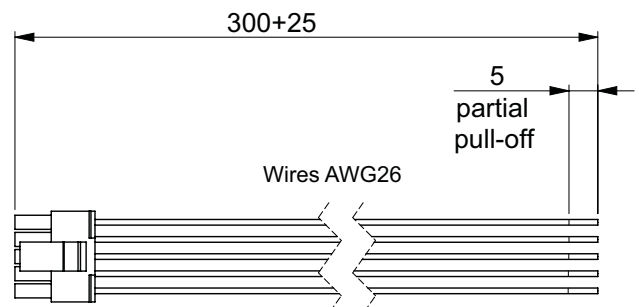
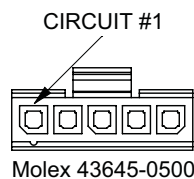
drilling pattern



Connector cable (not included in delivery of VIC, must be ordered separately)

Pin assignment

| Pin | Colour | Function (VIC) |
|-----|--------|-----------------------|
| 1 | bk | GND |
| 2 | rd | VSUP, 12 to 24 V |
| 3 | bu | Channel 1, 4 to 20 mA |
| 4 | ye | Channel 2, 4 to 20 mA |
| 5 | gn | Channel 3, 4 to 20 mA |



Joystick 829 application example

