

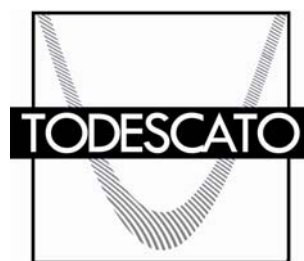
## Characteristics

- Input: Synchron Serial Interface
- Output: Parallel, max. 26 Bit, max. 30 V, max. 100 mA, short circuit protected, usable for bus applications
- Master/Slave mode
- Input-Code Gray/ Binary
- Output-Code Gray/Binary/BCD
- Hold- and OE-Inputs
- Strobe-Output
- Housing for DIN rail mounting EN 50 022
- Connector: Plug-in-screw Terminals and DB37M

## Applications

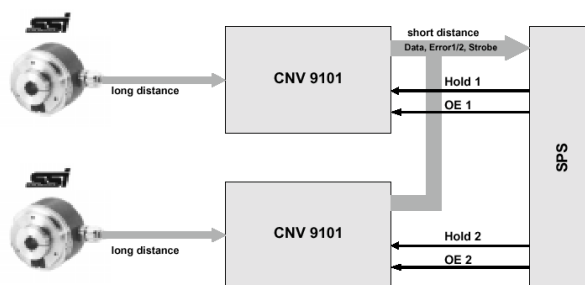
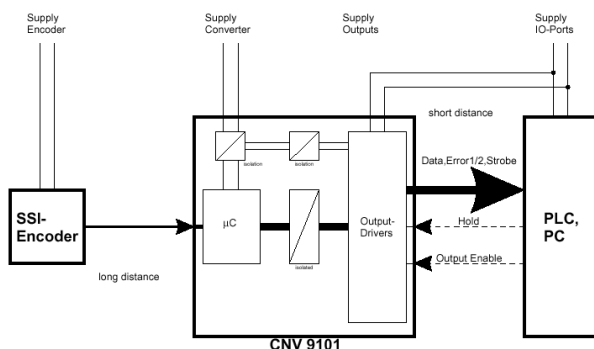
- SSI-Connection with high immunity against EMI instead of parallel EMI-prone connections.
- Replacement for parallel absolute encoders.

picture in preparation



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## SSI-Input

- Binary or Gray Code selectable
- Resolution 10, 12, 13, 24, 25, 26 Bit, selectable (other resolutions up to 28 Bit on enquiry)
- Singelturm/Multiturn
- Direction of rotation selectable
- Master/Slave-mode selectable  
Master: Clock generation by CNV 9101  
Slave: Clock generation by an external unit
- Clock frequency max. 125 kHz (slave-mode) resp. max. 100 kHz (master-mode)
- Data input: RS 422/485
- Clock output: RS 422/485
- Clock input: RS 422/485

## Parallel Output

- Number Channels: Max. 26 Bit (other number of channels up to max. 28 Bit on enquiry)
- Outputs max. 30 V / 100 mA, short circuit protected
- Bus-Mode: Controllable by OE-input
- Strobe-Signal: Indication of data transfer (pulse duration 10 ms, other on enquiry)
- Output code: Binary, Gray, or BCD selectable (other on enquiry)
- Output and LED for error on SSI input (with Bus-Mode)
- Output and LED for error on output channels (with Bus-Mode)
- Operation without control signals possible for single device applications

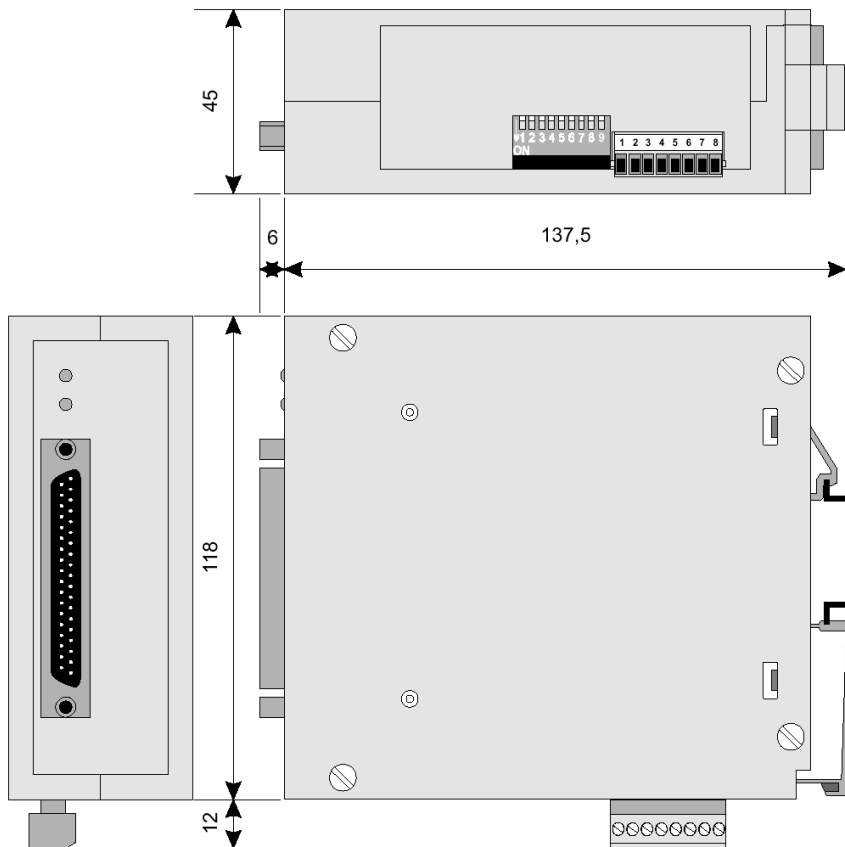
## Electrical Datas

|                         |   |
|-------------------------|---|
| SSI-Input               | Singelturm or Multiturm   |
| Resolution              | 10 .. 26 Bit  |
| Input-Code              | Binary or Gray Code   |
| Input-Signals           | Receiver RS422/RS485  |
| Clock-Input             | Receiver RS422/RS485  |
| Clock-Output            | Transmitter RS422/RS485   |
| Master-Mode             |   |
| Clock-Frequency         | internal, 100 kHz   |
| Data-Transfer           | approx. 30 values per sec   |
| Slave-Mode              |   |
| Clock-Frequency         | external, max. 125 kHz  |
| Interval Time           | min. 500 µs   |
| Data Transfer           | approx. 30 values per sec   |
| Parallel Outputs        |   |
| Logic                   | high side, max. 30 V<br>100 mA, short circuit protected               |
| Isolation Voltage       | 3 kV / 1 min  |
| Power Supply DC Voltage | 18 .. 36 V DC<br>5 V DC ±10 % optional<br>12 V DC ±10 % optional      |
| Isolation Voltage       | 500 V / 1 min   |
| Power Consumption       | DC 70 mA (18 .. 36 V DC)<br>DC 250 mA (5 V DC)<br>DC 110 mA (12 V DC) |

## Mechanical Datas

|                        |                                   |
|------------------------|-----------------------------------|
| Case                   | Rail Mounting EN 50 022           |
| Dimensions (B x H x T) | 45 x 118 x 137,5 mm               |
| Weight                 | ca. 300 g                         |
| Connections            | Plug-in-screw terminals and DB37M |

## Dimensions



## Environmental Conditions

|                        |   |
|------------------------|---|
| Operating Temperaturer | 0 .. 50 °C                                  |
| Storage Temperature    | -20 .. 70 °C                                |
| Humidity               | < 80 %, not-condensing                      |
| Protection             | Protection Class II                         |
| Field of Application   | Class 2<br>Overvoltage Protection II        |
| CE                     | in conform with 89/336/EWG<br>NSR 73/23/EWG |

## Ordering Information

|            |   |   |   |                                  |
|------------|---|---|---|----------------------------------|
| CNV 9101 - | 0 | 0 | 0 | 0                                |
|            |   |   |   | Reserve                          |
|            |   |   |   | Reserve                          |
|            |   |   |   | <b>Versorgung (Nennspannung)</b> |
|            |   |   | 0 | 5 V DC, ±10%, isolated           |
|            |   |   | 1 | 12 V DC, ±10, isolated           |
|            |   |   | 2 | 18.. 36 V DC, isolated           |
|            |   |   |   | Reserve                          |