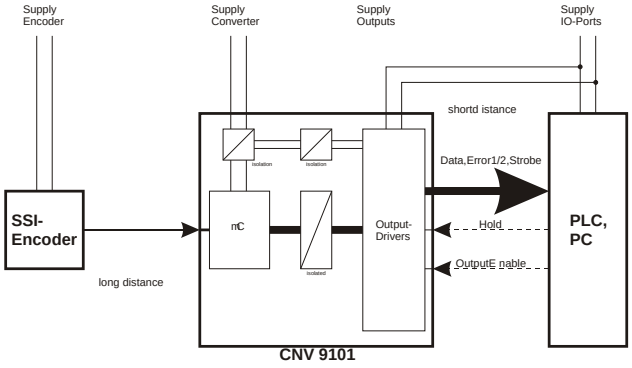
■ **Converter CNV 9101** for Absolute Encoders with *SSI*-Interface

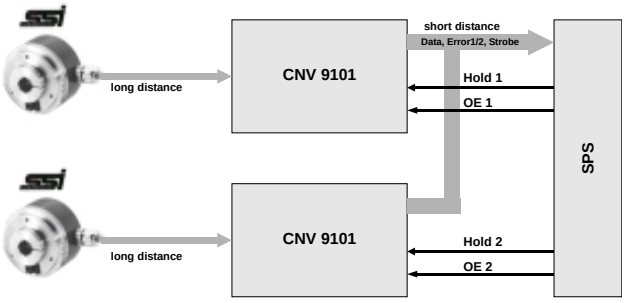
Characteristics

- **Input: Synchron Serial Interface**
- **Output: Parallel, max. 26 Bit, 8 .. 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.





SSI-Input

- Binary or Gray Code selectable
- Resolution 10, 12, 13, 24, 25, 26 Bit, selectable (other resolutions up to 28 Bit on enquiry)
- Singelturn/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 8 .. 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	Singelturn or Multiturn
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, ma.l 125 kHz
Interval Time	min. 500 µs
Data Transfer	approx. 30 values per sec
Parallel Outputs	
Logic	high side, 8 .. 30 V 100 mA, short circuit protected
Isolation Voltage	3 kV / 1 min
Power Supply DC Voltage	18 .. 36 V DC 5 V DC ±10 % optional 12 V DC ±10 % optional
Isolation Voltage	500 V / 1 min
Power Consumption	DC 70 mA (18 .. 36 V DC) DC 250 mA (5 V DC) DC 110 mA (12 V DC)

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 Overvoltage Protection II
CE	in conform with 89/336/EWG NSR 73/23/EWG

Ordering Information

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

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