



Digital Signal Converter

Converter SK 9001 for Absolute Encoders with SSI-Interface

Characteristics

- Input Synchron Serial Interface SSI
- Output analog 0(2) - 10 V or 0(4) - 20 mA
- Master/Slave-Mode
- Free Scaling and zero definition
- Housing for DIN rail mounting EN 50 022
- Plug-In screw terminals
- 2 alarm relays

Parameters of encoder

- Binary or gray code
- Singelturn/Multiturn
- Direction of rotation
- Master/Slave-Mode

Master: clock for reading data of encoder is generated internal by the SSI 9001

Slave: clock for reading data of encoder is generated by an external instrument

SSI signal inputs

- Data input, receiver RS 422/485
- Clock output, driver RS 422/485
- Clock input, receiver RS 422/485

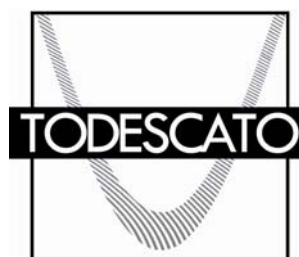
Analog output

The analog output is provided with a current output and a voltage output. Both outputs are isolated from the further electronic.

- Scaleable (zero/offset and final value)
- Output 0(2) - 10 V or 0(4) - 20 mA
- Data source: direct encoder, MIN or MAX value

Software functions

- Programming of encoder datas
- Scaling factor
- Zero point adjustment
- Direction of rotation
- Offset value
- Incremental measurement
- Display test and display hold (Latch)
- MIN/MAX value detection
- Auto-Reset for MIN/MAX value
- Setting of alarm points during measurement



Indirizzo
Via A. Palladio, 13/e
36040 SAREGO - VI
Telefono
340-8102809
Telefax
0444-820426
Email
info@todescato.com
Internet
www.todescato.com

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Push button functions

The three push buttons at the front could be programmed for performing the following functions:

- No function
- Displaying encoder data, MIN or MAX value
- Resetting the MIN/MAX value
- Zero adjustment
- Reset zero adjustment
- Manual alarm reset
- Display test and display hold

Digital input channels

The both inputs are low active and could be programmed to following functions::

- No function
- Displaying encoder data, MIN or MAX value
- Resetting the MIN/MAX value
- Zero adjustment
- Reset zero adjustment
- Manual alarm reset
- Display test and display hold

Alarm outputs

Two programmable alarm outputs with free allocation allows the monitoring of production operation.

Programmable parameters:

- Alarm point and hysteresis
- Relay function (high or low alarm)
- Alarm response time (fall off and put on time)
- Data source: direct encoder, MIN or MAX value

Electrical Data

SSI signal input	:singleturn or multiturn
Resolution	:10 .. 25 bit
Code	:binary or gray
Data input	:receiver RS 422/485
Clock input	:receiver RS 422/485
Clock output	:driver RS 422/485

Master mode

Clock frequency	:internal 100 kHz or 200 kHz
Conversion rate	:approx. 28 values per sec

Slave mode

Clock frequency	:extern, max. 125 kHz
Conversion rate	:approx. 28 values per sec

Digital inputs

Logic	:2, programmable function
	:NPN, max. 30 V

Alarm outputs

Signaling	:2 Relays (programmable as opened contacte or closed contact)
Switch voltage	:2 LEDs at the front
Switch current	:250 V AC / 250 V DC
Switch power	:5 A AC / 5 A DC
	:750 VA / 100 W

Analog output : resolution 16 bit
 Accuracy : $\pm 0,2\%$ of final value
 Voltage : 0(2)- 10 V, max. 10 mA
 Current : 0(4)-20 mA; max. 500 ohm
 Isolation voltage : 3 kV / 1 min

Power supply : DC 18 .. 36 V DC
 Isolation voltage : 500 V / 1 min
 Consumption : DC 70 mA

Mechanical Datas

Display : 6 decades, 8 mm, red
 : decimal point programmable
 : preliminary zero suppression
 : - sign at negative values
 Operation : keyboard design front membrane with push buttons
 Case : Rail mounting EN 50 022
 Dimensions : (B x H x T) 67,5 x 75 x 105 mm
 Weight : ca. 300 g
 Connection : Plug-In screw terminal

Environmental conditions

Operating temperature : 0 .. 50 °C
 Storage temperature : -20 .. 70 °C
 Humidity : < 80 %, not-condensing
 Protection : protective class II
 Field of application : class 2, overvoltage protection II
 CE : in conform with 89/336/EWG
 : NSR 73/23/EWG

Ordering information

SK 9001	-0 reserved	-	-0
			0 = 5 Vdc \pm 10%, isolated
			1 = 12 Vdc \pm 10%, isolated
			2 = 18÷36 Vdc , isolated

