

Position Indicator signo 727 SSI for Absolute Encoder Connection

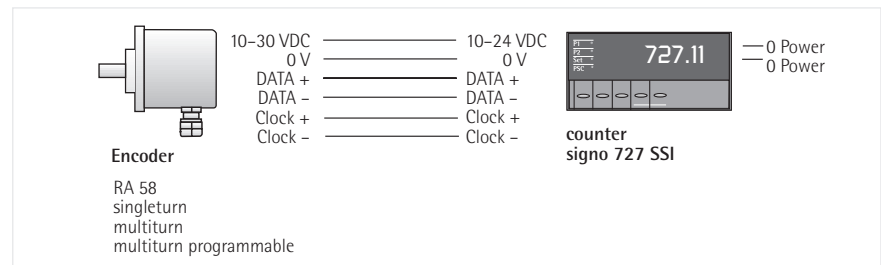


- large, 6-digit, 14 mm high LED display
- predetermined offset
- 2 variable limit values
- easy direct selection by 2 function keys
- relay outputs with change-over contacts
- chain value or absolute value indication
- npn/pnp programming of inputs
- synchronous/serial Interface

APPLICATION FIELDS

Indication of infeed values, lengths, support- or machine positions, totaling values etc.

The coupling to the machine may be done with an absolute encoder with SSI-Interface from the wide and comprehensive Hengstler program of types RA 58.



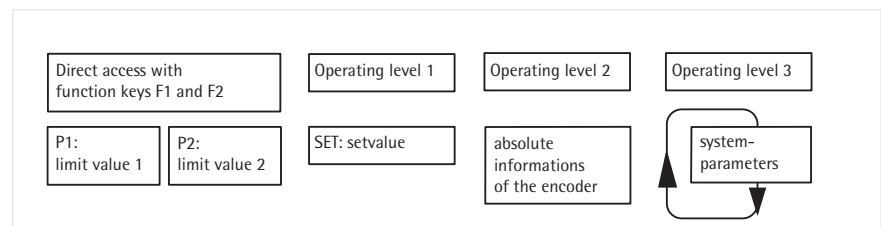
DISPLAY



Section A: shows the actual count value when in counting mode, and the changeable parameters when in programming mode.

Section B: LED indicators showing the active output signal, and in programming mode indicating the changeable parameter.

PROGRAMMING



Programming of signo 727 is possible by direct access and in the 3 operating levels

Direct access: Limit values are set with the function keys F1, F2

Operating level 1: Set value

Operating level 2: Includes absolute informations of the encoder

Operating level 3: Includes system parameters, which are normally programmed during start-up procedure only.

Unauthorized programming of the signo 727 is prevented by a control input, which can lock the operating levels.

signo 727 SSI

TECHNICAL DATA

Technical data

Display	LED, indication value/preselection 6 digits, suppression of leading zeros, programmable decimal point, minus sign
Digit Height	14 mm
Power Supply Voltage U_b	12...24 VDC or 115/230 VAC, depending on version
Current Consumption	12...24 VDC < 250 mA, 115/230 VAC < 60 mA
Sensor Supply	AC operation 12...24 VDC, DC operation $U_B - 2$ V, $I_{max} = 60$ mA
Data Retention	non-volatile memory > 10 years
Operating Temperature	0...50 °C
Storage Temperature	-20...+70° C
Electrical Connection	plug-in terminals
Mounting	with clamping frame
Protection Class (IEC 144)	front side IP 54, terminals IP 20
Noise Immunity EMC	severity 3 according to IEC 801, part 2 + part 4
Vibro Stability	10 m/s \approx (10...150 Hz) according to IEC 68-part 2-6
Shock Stability	100 m/s \approx (18 ms) according to IEC 68-part 2-27
General Rating	according to VDE 0411, DIN 57411, protection class II

Inputs:

SSI Data +

SSI Data -

Baud rate: ca. 100 kHz

Control Input:

Application Input 1 static

Display hold,
Reset or Chain Reset
(programmable)

Keylock static

Outputs:

SSI Clock +

SSI Clock -

Relay* Out 1 and Out 2

Contact Type changeover relay

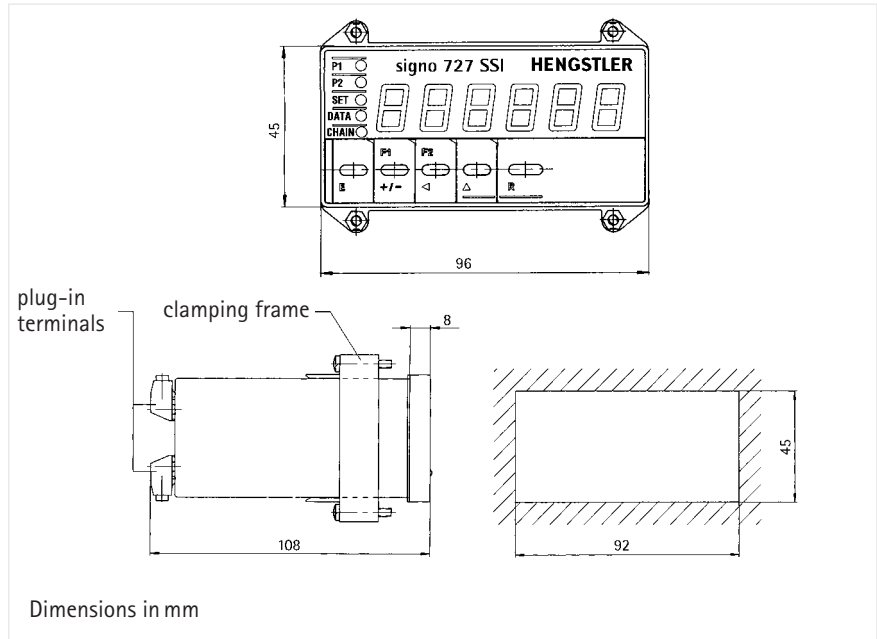
Switching Voltage max. 250 VAC/30 VDC, mind 5 VAC/DC

Switching Current max. 1A, min. 10 mA

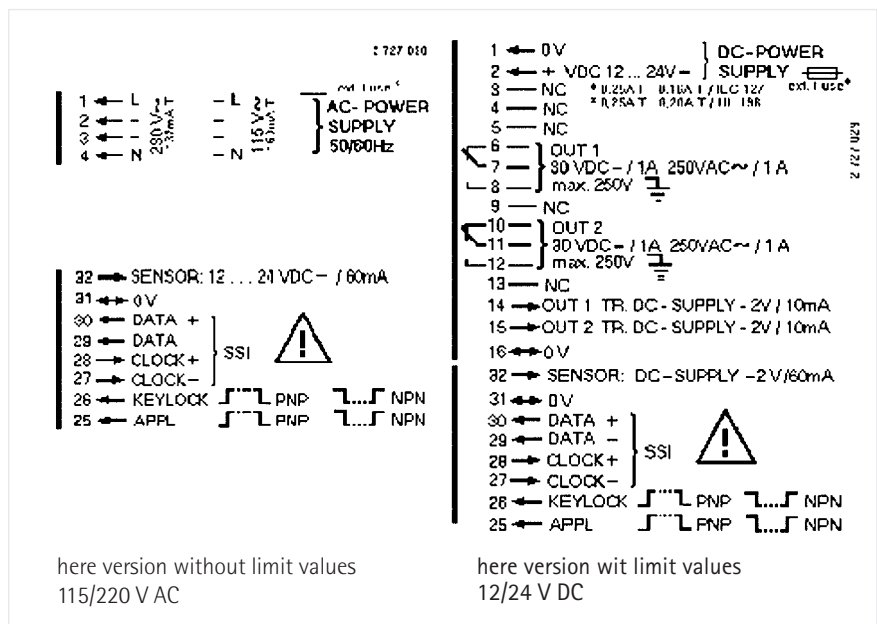
Transistor* Out 1 and Out 2, PNP, 10 mA

* for versions with limit value only

DIMENSIONAL DRAWING



CONNECTION DIAGRAM



ORDER INFORMATION

Type	absolute encoder connection	Power supply	Ordering code
signo 727 without limit values	SSI	12...24 VDC	0 727 111
signo 727 without limit values	SSI	115/230 VAC	0 727 112
signo 727 with 2 limit values	SSI	12...24 VDC	0 727 131
signo 727 with 2 limit values	SSI	115/230 VAC	0 727 132

Do not use absolute encoder with cut Gray Excess Code (e. g. 360 or 720)
Maximum Encoder resolution: 12 bits (Singleturn) and
24 bits (Multiturn 12 + 12 bits)