

Absolute-Encoder CXV 65 S/M - SSI / INC

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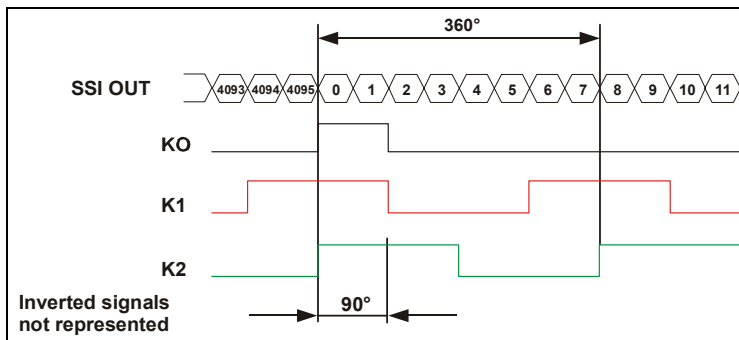


- SSI / Absolute-Incremental interface
- Type with solid shaft
- High resolution encoder, up to 17 bit
- Modular product line
- Extensive parameter setting possibilities
- Special parameters upon request
- Further interfaces available
- Modular construction for mechanical customizations

5.A

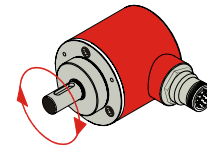
Electrical Data

Supply voltage.....	11-27 VDC
Current consumption without load.....	< 350 mA
Increments / Revolution ¹⁾	1 ... ≤ 32768
SSI-Steps / Increment ¹⁾	4, 8, 16, 32 x number of programmed increments / revolution
Number of revolutions ¹⁾	1, 4 ... ≤ 65536, in powers of two steps
System accuracy, at permissible temperature	± 30 angular seconds, independent of bearing forces
Repeatability, at permissible temperature.....	± 5 angular seconds, independent of bearing forces
Programming via RS485.....	PC IBM compatible, TRWinProg
Output code ¹⁾	Binary, Gray
SSI-Clock input	Opto coupler isolated
SSI-Clock frequency	80 kHz - 1 MHz, programmable clock-polarity
SSI-Data output.....	RS422 (2-wire), programmable data-polarity
Number of SSI data bits ¹⁾	5 - 36, optional with CRC-, Parity- or Error-Bit
Input options	
Forward / Reverse / INC-Absolute Boot ¹⁾	Change direction of count / Transmission of the absolute position
Preset ¹⁾	Adjust absolute position to a given set value (i.e. zero set)
Logic level.....	"0" < + 2 VDC, "1" = Supply voltage
Outputs, 5 V	Line Driver, Output Frequency from 12 ... ≤ 1600 kHz programmable



Example-programming for the given diagram:

- XE-65 Single-Turn
- 512 Increments/Revolution
 - SSI-Steps/Increment = 8
(= 4096 Steps/Revolution)



¹⁾ programmable parameter

Environmental Data

Electromagnetic compatibility (EMC)	EN 61000-4-2 (IEC-801-2) / EN 61000-4-4 (IEC-801-4)
Working temperature.....	0 °C...+60 °C, optional -20 °C...+70 °C
Storage temperature	-30 °C...+80 °C, dry
Relative humidity, DIN EN 60068-3-4: 2002	98 %, non condensing
Protection class, DIN EN 60529: 1991 ²⁾	IP 65

²⁾ valid with screwed on mating connector and / or screwed together cable gland

Mechanical Data

Mechanically permissible speed.....	$\leq 12.000 \text{ min}^{-1}$
Shaft load, at the shaft end	$\leq 40 \text{ N axial, } \leq 60 \text{ N radial}$
Bearing life time.....	$\geq 3.9 * 10^{10}$ revolutions at
- Speed.....	$\leq 6.000 \text{ min}^{-1}$
- Operating temperature.....	$\leq 60 \text{ }^\circ\text{C}$
- Shaft load, at the shaft end	$\leq 20 \text{ N axial, } \leq 30 \text{ N radial}$
Permissible angular acceleration	$\leq 10^4 \text{ rad/s}^2$
Moment of inertia.....	typically $2.5 * 10^{-6} \text{ kg m}^2$
Start-up torque at 20°C	typically 2 Ncm
Mass	typically 0.7 kg
Vibration, DIN EN 60068-2-6: 1996.....	$\leq 100 \text{ m/s}^2$, sine 50-2000 Hz
Shock, DIN EN 60068-2-27: 1995.....	$\leq 1000 \text{ m/s}^2$, half-sine 11ms
Standard connector	12 pin Contact Connector
Other connection types / connectors.....	Upon request

Dimensional Drawing

