

Absolute-Encoder COV65 - A / SSI

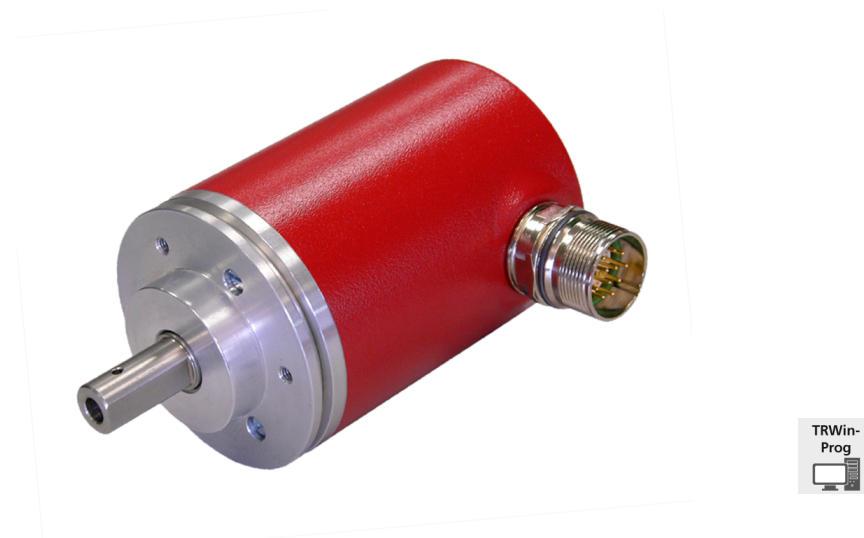
Ref.: K-COV65-A-1

18.11.2013

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Advantages

- _ Current- or voltage output
- _ Customer-specific solutions
- _ Flexible programming
- _ High resolution system
- _ Modular mechanical design
- _ Modular product line
- _ Speed/Position analog output



General Data

Supply	
- Supply voltage	18...27 VDC
Current consumption no load	<= 180 mA
Device design	
- Type	Single-/Multi-Turn
Total resolution	<= 36 Bit
Number of steps per revolution	<= 262144
Number of revolutions	<= 256000
SSI - Interface	
- Equipment	Optional interface
- SSI-Clock input	Optocoupler
- SSI-Data output	RS-422, 2-wire
- SSI-Clock frequency	80...1000 kHz
- SSI-Mono time, typically	20 µs
Analog - Interface	
- Equipment	Standard interface
- Voltage/Current	Factory setting
- Resolution	16 Bit D/A converter
- Voltage output	-10...+10 VDC
- Load resistance (U)	>= 0.5 kOhm
- Current output	0...20 mA
- Load resistance (I)	<= 500 Ohm

Subject to change.

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General Data continuation

Parameter/Function, changeable	Resolution
	Output code
	Number of data bits
	Analog Voltage/Current
	Preset parameter
Type of parametrization	programmable
Prgramming - Tool	TR-Soft: TRWinProg
External inputs	
- F/R	Count direction
- Latch	Storage of the output data
- Logic level	"0" < +2V, "1" = Supply
Maximum Speed, mechanically	<= 6000 1/min
Shaft load, axial/radial	<= 40 N, <= 60 N
Bearing life time	>= 3.9E+10 revolutions
Bearing life time - Parameter	
- Speed	3000 1/min
- Operating temperature	60 °C
- Shaft load, axial/radial	<= 20 N, <= 30 N
Point of origin, shaft load	at the shaft end
Angular acceleration	<= 10E+4 rad/s ²
Moment of inertia, typically	2.5E-6 kg m ²
Start-up torque, 20 °C	2 Ncm
Mass, typically	0.7 kg

Environmental conditions

Vibration	
- Specific value	<= 100 m/s ²
- Sine	50...2000 Hz
Shock	
- Specific value	<= 1000 m/s ²
- Half sine	11 ms
Immunity to disturbance	DIN EN 61000-6-2
Transient emissions	DIN EN 61000-6-3
Working temperature	
- Standard	0...+60 °C
- Optional	-20...+70 °C;

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Environmental conditions continuation

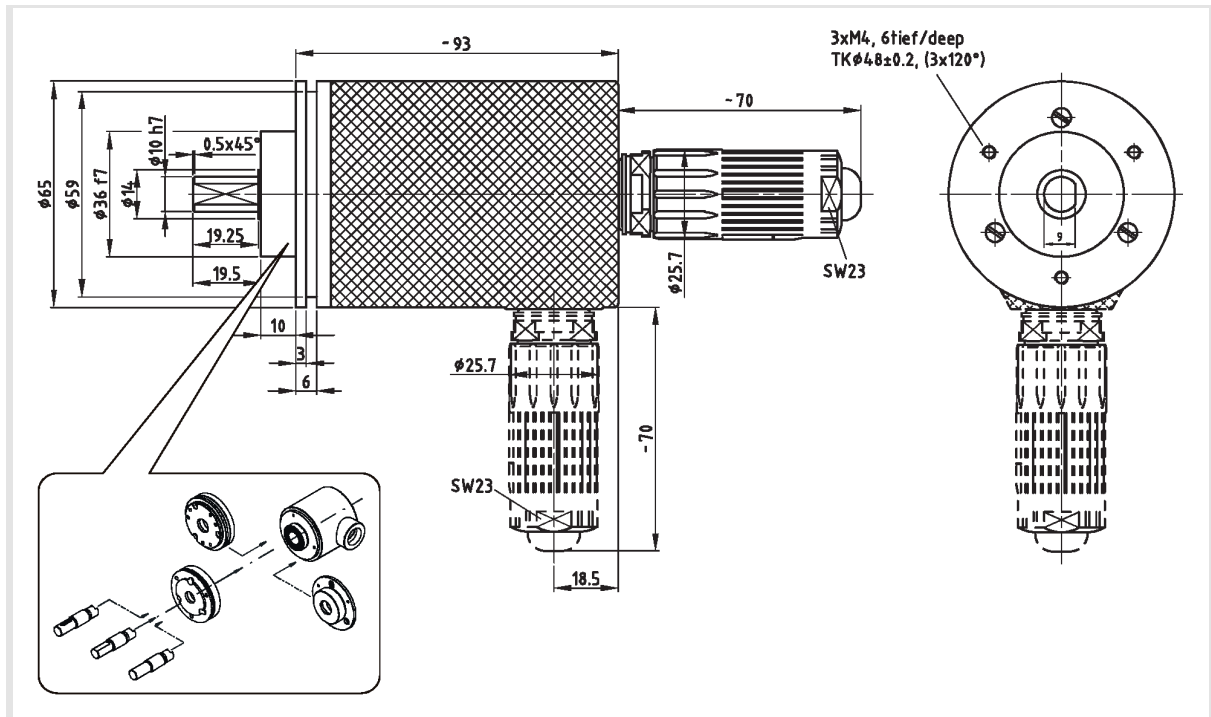
Storage temperature, dry	-30...+80 °C
Relative humidity	98 %, non condensing
Protection class - Standard	IP65

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Dimensional drawing



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