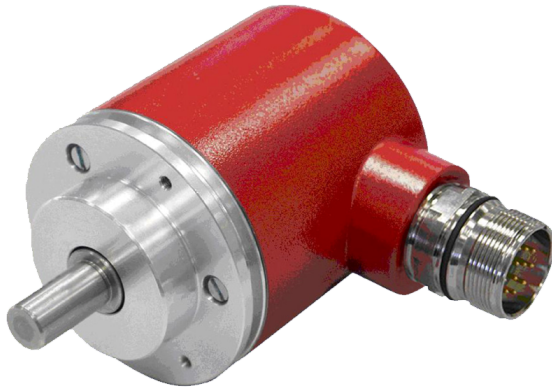


## Absolute-Encoder AEV65 - A / SSI



Ref.: K-AEV65-A-1

18.11.2013

010102006502010201

### Advantages

- Current- or voltage output
- Customer-specific solutions
- Ex-Protection Zone 2/22
- Flexible programming
- Modular mechanical design
- Modular product line
- Speed/Position analog output

### General Data

Nominal voltage	24 VDC
- Specific value	
- Limit values, min/max	18/27 VDC
Power consumption	<= 3 W
Device design	
- Type	Single-/Multi-Turn
Total resolution	<= 33 Bit
Number of steps per revolution	<= 32768
Number of revolutions	<= 256000
Output capacity	<= 30 Bit
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

Subject to change.

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## Absolute-Encoder AEV65 - A / SSI

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### General Data continuation

- Current output	0...20 mA
- Load resistance (l)	<= 500 Ohm
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	
- Preset	electronic adjustment
- Latch	Storage of the output data
- Logic level	"0" < +2V, "1" = Supply
Maximum Speed, mechanically	<= 4000 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 <sup>2</sup>
Moment of inertia, typically	2.5E-6 kg m <sup>2</sup>
Start-up torque, 20 °C	2 Ncm
Mass, typically	0.7 kg

### Environmental conditions

Vibration	
- Specific value	<= 100 m/s <sup>2</sup>
- Sine	50...2000 Hz
Shock	
- Specific value	<= 1000 m/s <sup>2</sup>
- Half sine	11 ms
Immunity to disturbance	DIN EN 61000-6-2
Transient emissions	DIN EN 61000-6-3

Subject to change.

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### Environmental conditions continuation

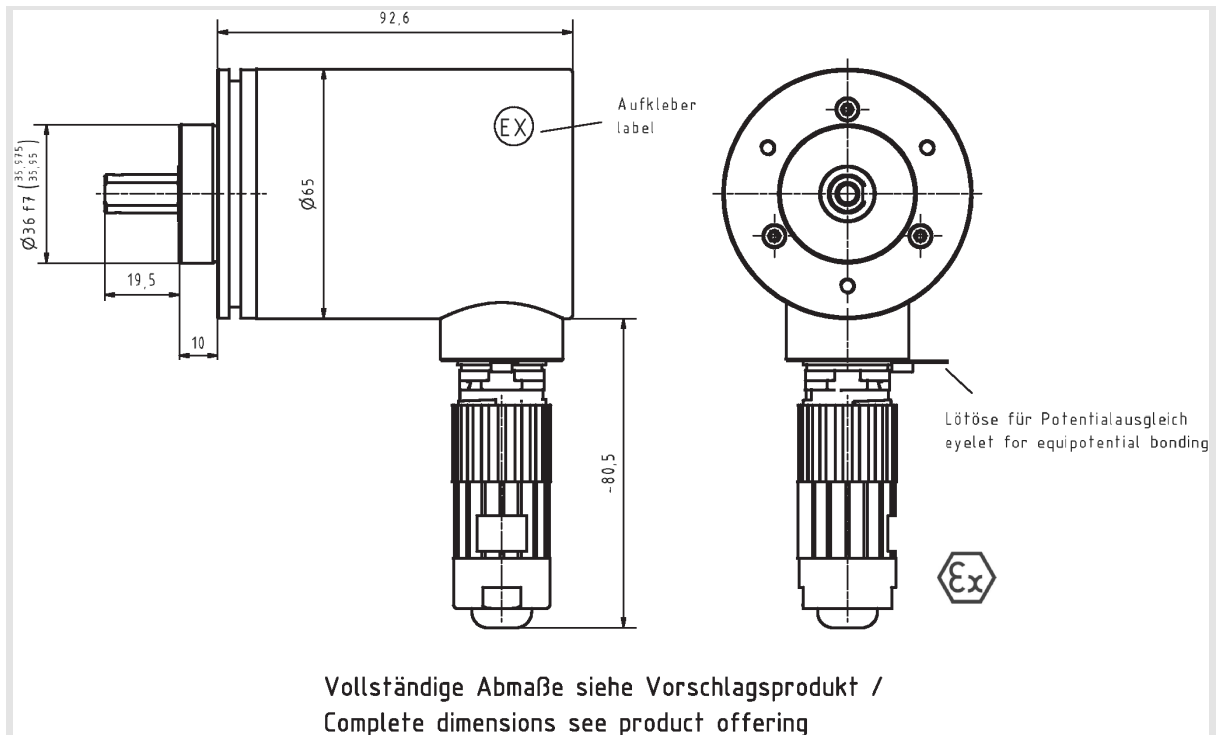
Working temperature - Standard	-20...+60 °C
Storage temperature, dry	-30...+80 °C
Relative humidity	98 %, non condensing
Protection class - Standard	IP64
- Note	observe Ex User manual
Relev. Ex Directive/Standards - Directive 94/9/EG (ATEX)	Intended use
- EN 60079-0	General requirements
- DIN EN 60079-14	Installation, erection
- EN 60079-15	Equipment protection "n"
- EN 60079-31	Dust ignition protection "t"
- DIN EN 60529	Degrees of protection, IP code
Ex protection - Data, Gas - Device group /-category	II 3G (Gc, Zone 2)
- Ignition protection type	nAc (non-sparking equipment)
- Group	IIC (Hydrogen)
- Temperature, surface	T6 (<= 85 °C)
- Special conditions	yes (X), observe Ex manual
Ex protection - Data, Dust - Device group /-category	II 3D (Dc, Zone 22)
- Ignition protection type	tc (Protection by enclosure)
- Group	IIIC (conductive dust)
- Temperature, surface	T85°C
- Special conditions	yes (X), observe Ex manual

Subject to change.

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## Dimensional drawing



Subject to change.