

# Absolute-Encoder QE81 - PB / SSI

Ref.: K-QEH81-PB-1

14.11.2013

010102008102020202

## Advantages

- \_ Customer-specific solutions
- \_ Flexible programming
- \_ Further interfaces available
- \_ Modular product line
- \_ Rugged construction



## General Data

Supply	
- Supply voltage	11...27 VDC
Current consumption no load	<= 350 mA
Device design	
- Type	Single-/Multi-Turn
Total resolution	<= 31 Bit
Number of steps per revolution	<= 8192
Number of revolutions	<= 256000
Output capacity	<= 25 Bit
PROFIBUS - Interface	
- PROFIBUS-DP V0	IEC 61158, IEC 61784
- PNO Encoder-Profile	Class 1 and 2
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	18 µs
Transmission rate	
- Specific value	9.6...12000 kbit/s
Parameter/Function, changeable	Resolution
	Output code

Subject to change.

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### General Data continuation

	Limit switch
	External Preset inputs
	Adjustment - Parameter
	SSI-Parameter
	Counting direction
	Gear function
	Velocity parameter
Type of parametrization	programmable
Prgramming - Tool	Fieldbus-Device
External inputs - Preset	electronic adjustment
- Logic level	"0" < +2V, "1" = Supply
Maximum Speed, mechanically	<= 3000 1/min
Shaft load, axial/radial	Own mass
Bearing life time	>= 3.9E+10 revolutions
Bearing life time - Parameter - Speed	3000 1/min
- Operating temperature	60 °C
Angular acceleration	<= 10E+4 rad/s <sup>2</sup>
Moment of inertia, typically	57.2E-6 kg m <sup>2</sup>
Mass, typically	1.3 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
Working temperature - Standard	0...+60 °C
- Optional	-20...+70 °C;
Storage temperature, dry	-30...+120 °C
Relative humidity	98 %, non condensing

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### Environmental conditions continuation

Protection class  
- Standard

IP54

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