

# Barcode Positioning System BE901 - EPN



Ref.: K-BE901-PN-1

23.04.2021

010204010099999999

## Advantages

- Also for systems with curves
- Easy mounting / start-up
- Measures linear movements
- Optional with display
- Optional with heating (-35°C)
- Range of 0...10000 m
- Wear-free detection

## General Data

Supply	
- Supply voltage	18...30 VDC
- In case of UL / CSA approval	according to NEC Class 2
- In case of UL / CSA approval	UL 60950-1
- In case of UL / CSA approval	CSA C 22.2 No. 60950-1
Current consumption no load	<= 200 mA
	<= 1.0 A with heating
Integrated heating	
- Equipment	Option
- Nominal voltage	24 VDC ±25 %
- Structure	Housing heating
- Structure	separate heating of the optics
- Warmup time	<= 30 min at 24 VDC / -35 °C
- Wire cross-section	<= 0.75 mm <sup>2</sup> , cable of U-Supply
Measuring range	0...10.000.000 mm
Reproducibility	± 0,05 mm (1 Sigma)
Response time	8 ms
Measurand output/refresh rate	2 ms
Following error calculation	4 ms
Straight line velocity	10 m/s

Subject to change.

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## General Data continuation

Light source	
- Laser diode	Red light
- Wave length $\lambda$	655 nm
- Laser protection class	1
- International safety standard	IEC/EN60825-1 :2014
- Life time	100 000 h, 25 °C
- Beam deflection	rotating polygon wheel
- Exit window	Glass
- Working range	50...170 mm
PROFINET IO - Interface	
- PROFINET IO – Device	IEC 61158, IEC 61784-1
- Physical Layer	Fast Ethernet, ISO/IEC 8802-3
- Conformance Class	B
- Real-Time-Classes	Class 1, 2 (RT)
Configuration interfaces	
- For service purposes	USB 2.0 Type Mini-B socket
Transmission rate	
- Specific value	100 MBit/s
Parameter/Function, changeable	Resolution
	Measurement value output time
	Response time
	Operating range
	Limit switch
	Preset parameter
	Interface parameter
	Counting direction
	Velocity parameter
Type of parametrization	programmable
Programming - Tool	TR-Soft: Config Tool
	Fieldbus-Device
External inputs	
- Type of parametrization	programmable
- Logic level	"0" < +2V, "1" = Supply
- Number of inputs	2
- Polarity protection	yes
External outputs	
- Output level	Supply voltage, <= 60 mA
- Type of parametrization	programmable
- Number of outputs	2

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### General Data continuation

- Short-circuit proof	yes
- Polarity protection	available
Housing - Material	Aluminum pressure casting
Mass, typically	0.58 kg without connection cap
Required connection equipment	
- Connection hood	must be ordered separately
- M12 Connector BE901 MS EPN	Art.-No.: 40804-23001
- Cable gland BE901 MK EPN	Art.-No.: 40804-23002

### Environmental conditions

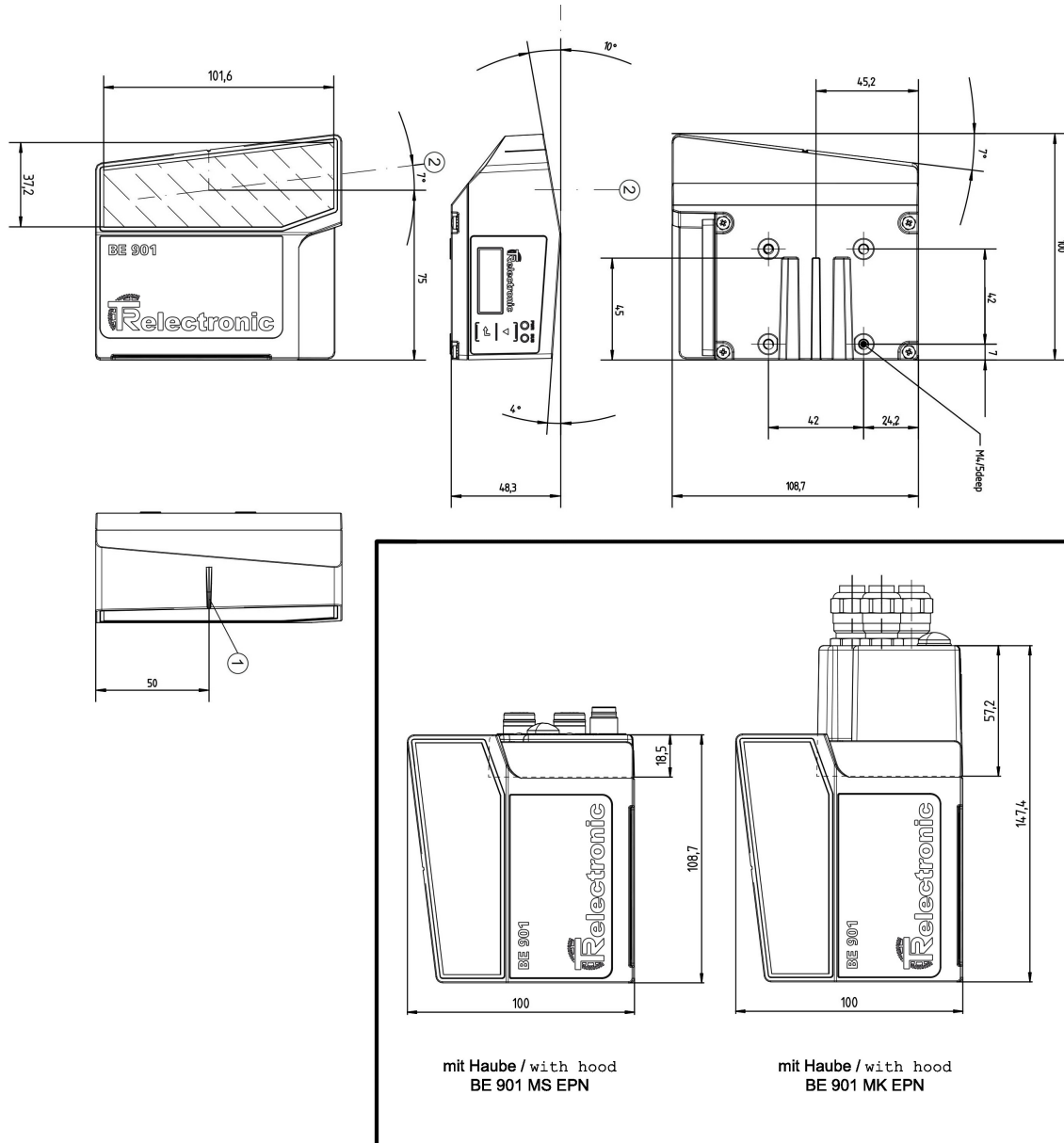
Vibration	IEC 60068-2-6, Test Fc
Shock	IEC 60068-2-27, Test Ea
Immunity to disturbance	DIN EN 61000-6-2
Transient emissions	DIN EN 61000-6-3
Working temperature	
- Standard	-5...+50 °C
- Optional	-35...+50 °C;
Storage temperature, dry	-35...+70 °C
Relative humidity	90 %, non condensing
Protection class	
- Standard	IP65

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## Dimensional drawing



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### Suggested products

BE 901 EPN	40804-13000
BE 901 EPN D H MIT DISPLAY UND HEIZUNG	40804-13001
BE 901 EPN D MIT DISPLAY	40804-13002
BE 901 MS EPN ANSCHLUSSHAUBE 3 X M12	40804-23001
BE 901 MK EPN ANSCHLUSSHAUBE 3 X KV	40804-23002

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