

Datasheet

Programmable position indicator with integrated fieldbus interface.



Features at a glance

- Programmable electronic position indicator with through hollow shaft and integrated fieldbus interface for accurate adjustment control of spindles.
- Evolution of mechanical indicators, with comparable dimensions and the same mounting system, for semi-automatic adjustment monitored by PLC on a vast range of machines and plants even in complex and heterogenous working conditions.
- LCD with two rows with backlight for target- and actual value.
- Suitable for semi-automatic and monitored adjustments of spindles.
- Parameters freely programmable via keyboard operation with integrated fieldbus interface Profinet, Ethernet/IP, EtherCat, Powerlink and IO-Link for network connection with PLC or remote monitoring system.
- Display with 7.5 mm digit height offers excellent readability, also at greater distances.
- User guidance via 2 signal LEDs (green/red) to indicate: position has been reached / not reached.
- Battery lifetime: 6 to 8 years.
- Extensive accessories available: shaft clamping flange, reducing bushes, hand crank or hand wheel

Mechanical characteristics

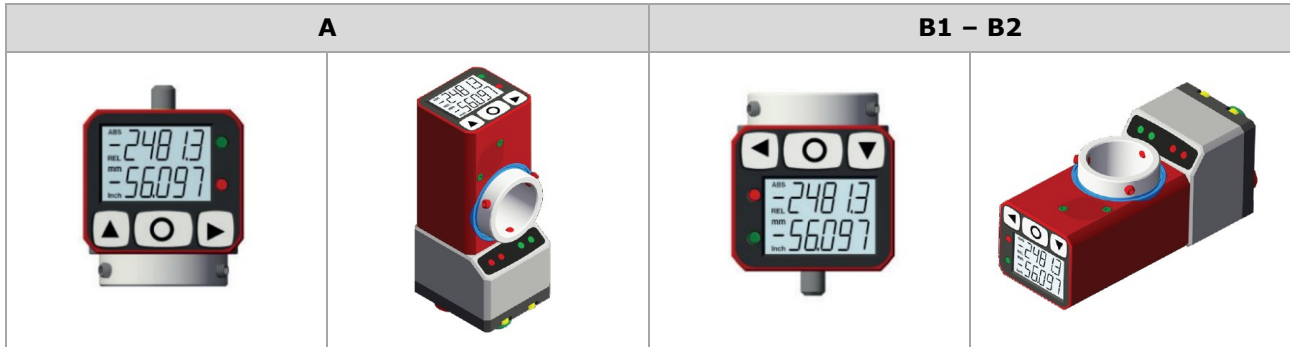
Housing	Aluminium, anodized
Hollow shaft, stainless steel	EP43NET: Ø14 mm / Ø12,7 mm (1/2") EP46NET: Ø20 mm / Ø19,05 mm (3/4") / Ø25 mm / Ø25,4 mm (1")
Display	LCD with backlight, digit height 7,5 mm
Display range	-99999; +99999
Speed	max. 1.000 rpm
Resolution, max.	EP43NET: 3.200 pulses per revolution EP46NET: 4.000 pulses per revolution
Operating temperature	0°C to +50°C
Relative humidity	35 to 85% (no condensation)
Protection class	IP65
Electrical connection	1x M12x1 plug, 4-pole, A-coded (power supply)
Ethernet connection	2x M12x1 socket, 4-pole, D-coded (fieldbus communication)

Electrical characteristics

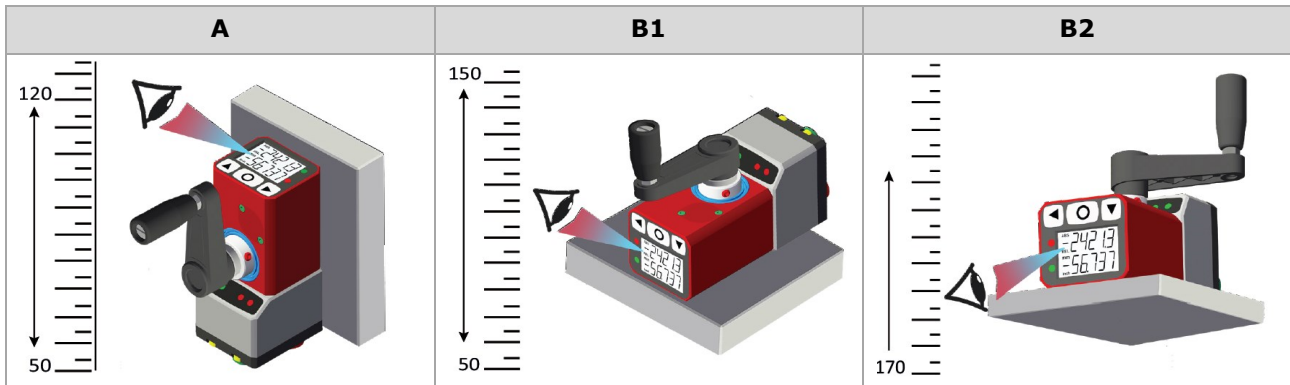
Power supply	10-30 VDC, max. 100 mA
Battery	3,6 V ½ AA, lifetime 6-8 years
Available functions	Reset, absolute / incremental value, mm / Inch conversation, offset
Keyboard	Frontside operation - 3 program and function keys
Interface /serial port	RS485 – Modbus RTU
Electromagnetic compatibility (EMC)	2014/30/UE
RoHS	2011/65/UE

Datasheet

View



Mounting position

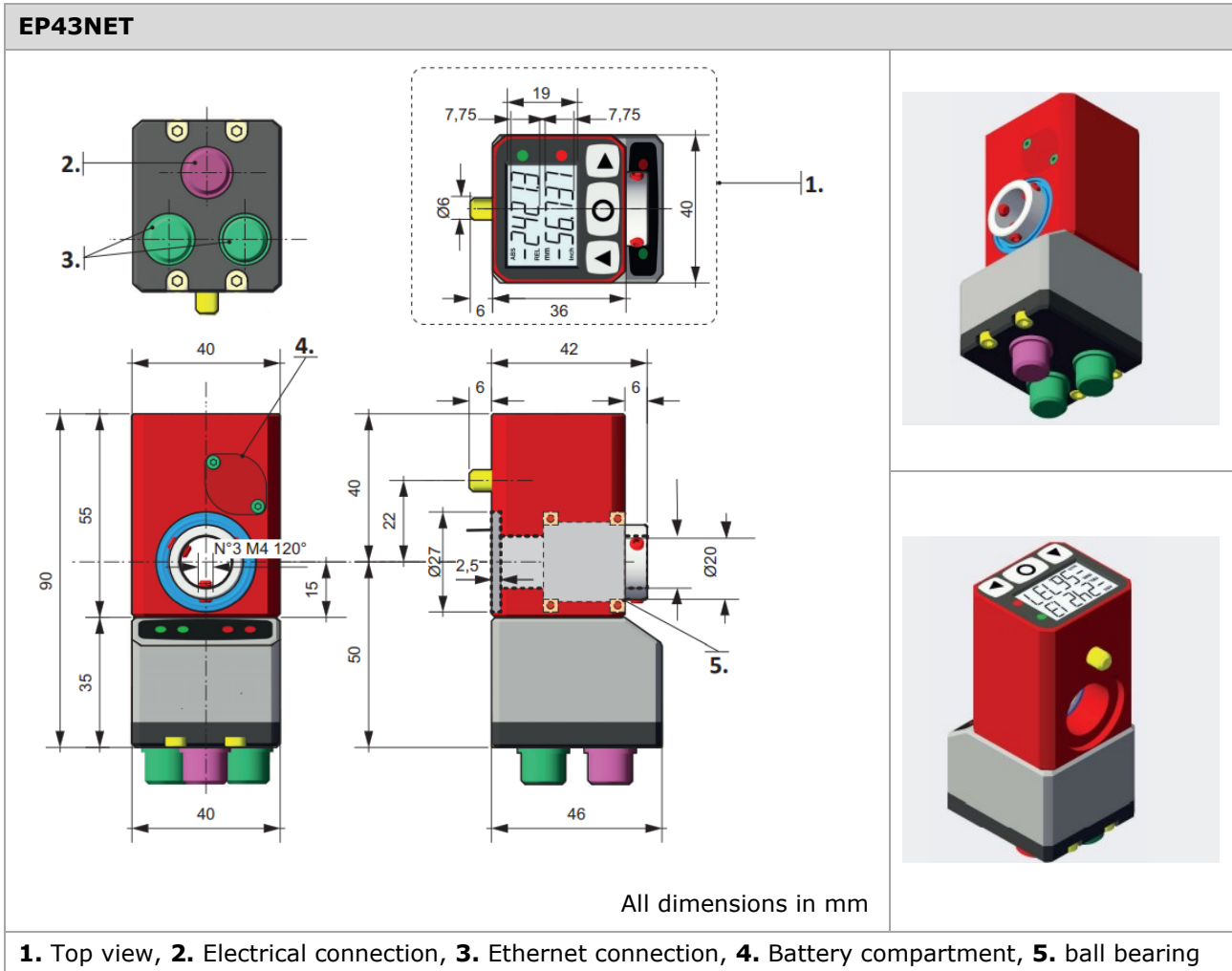


For optimal visibility, orient the device according to the viewing angle as shown.

- | | |
|-----------|--|
| A | For horizontal shaft. To be positioned at a height of 50 cm to 120 cm. |
| B1 | For vertical shaft. To be positioned at a height of 50 cm to 150 cm. |
| B2 | For vertical shaft. To be positioned at a height above 170 cm. |

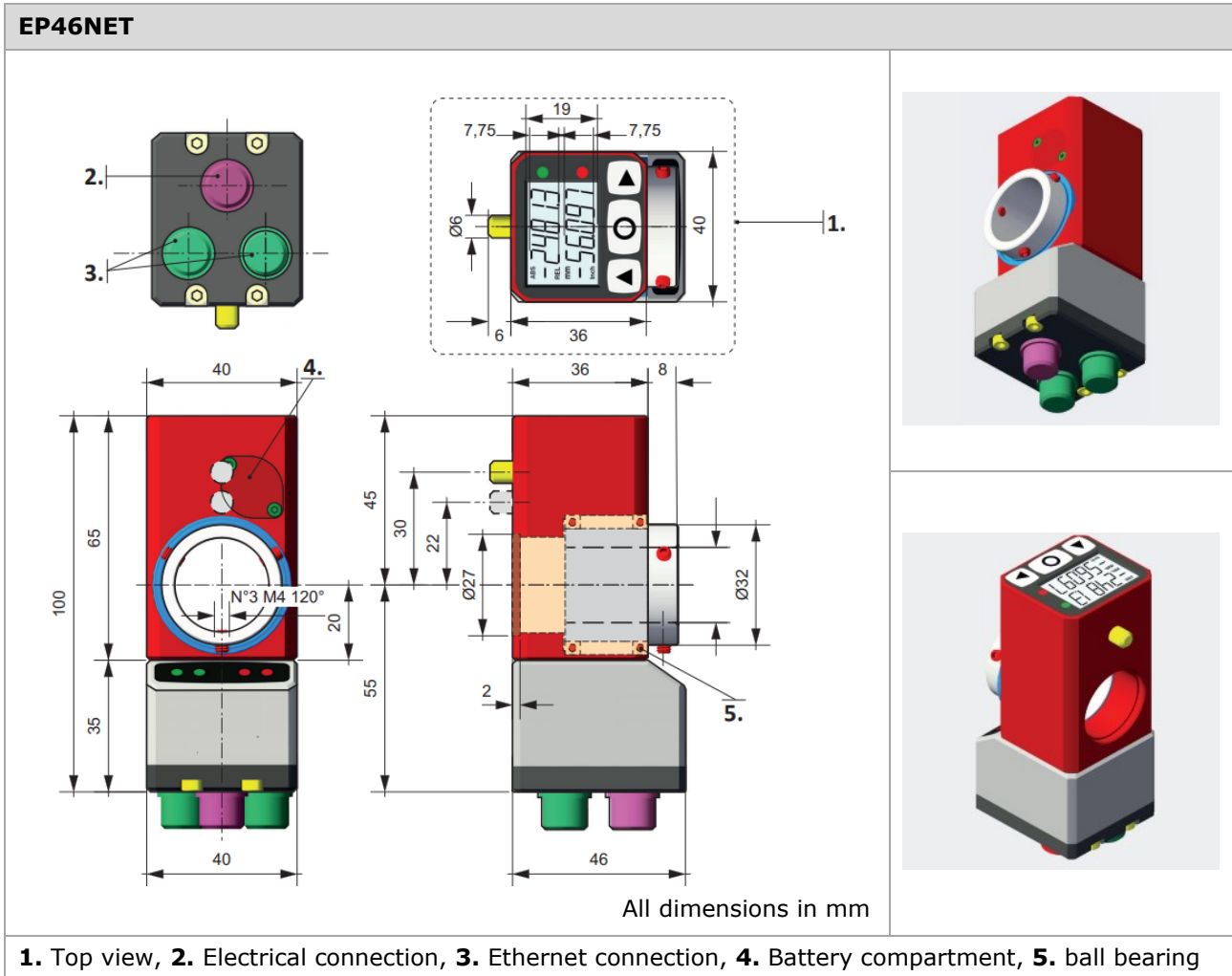
Datasheet

Dimensions



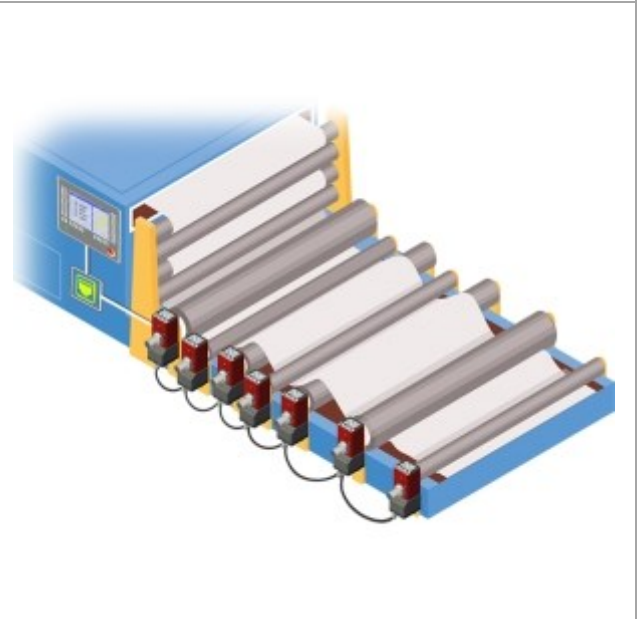
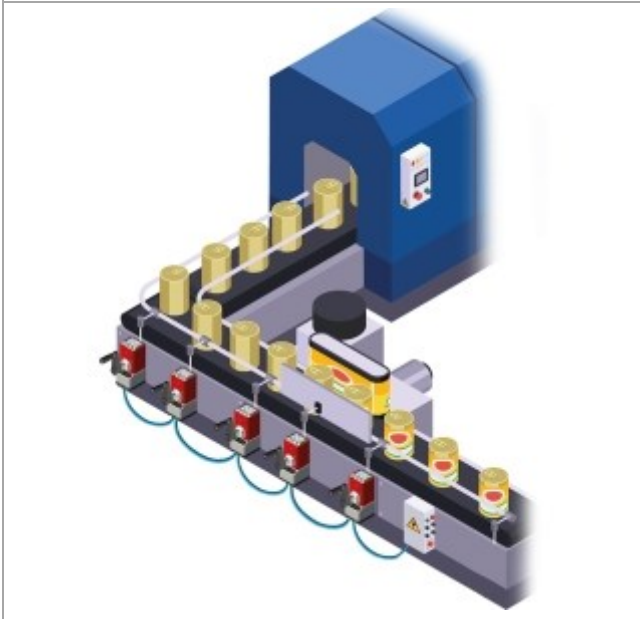
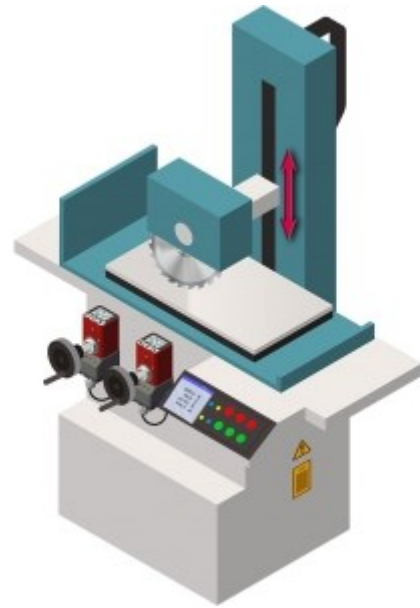
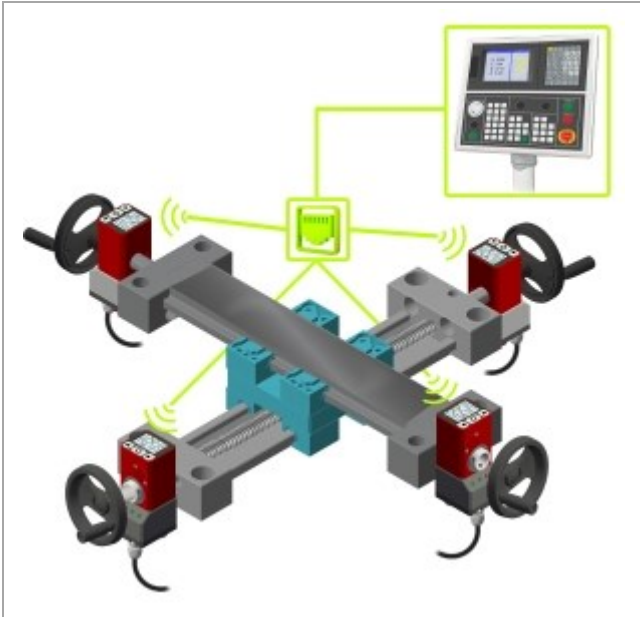
Datasheet

Dimensions



Datasheet

Application examples

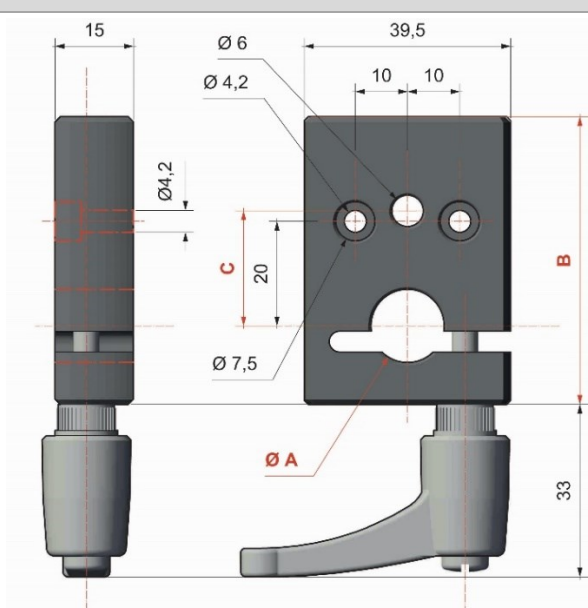




Datasheet

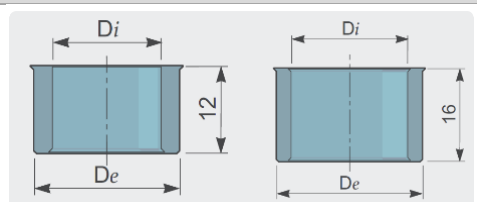

Accessories

Shaft clamping flange	Reducing bushes	Hand crank, Hand wheel
FL-B-EP43, FL-B-EP46	Position indicator/Hollow shaft BF	Hand crank V.M Hand wheel V.R

Dimensions Shaft clamping flange

Shaft clamping flange FL-B-EP43, FL-B-EP46		FL-B-EP43	FL-B-EP46
 <p>All dimensions in mm</p>	 <p>Compatible with EP43NET</p>	 <p>Compatible with EP46NET</p>	
	$\text{ØA} = 14 - 12,7 (1/2")$	$\text{ØA} = 20 - 19,05 (3/4") - 25$	
	B = 55	B = 65	
	C = 22	C = 30	

Dimensions for Position indicator/Hollow shaft

Reducing bushes BF		
	<p>D_i = inner diameter D_e = outer diameter</p> <p>All dimensions in mm</p>	

Datasheet

Ordering examples

Type	EP43NET	-	A	-	F14	PROFINET
EP43NET						
EP46NET						

Mounting position

- A** = For horizontal shaft (positioned at a height of 50 cm to 120 cm)
- B1** = For vertical shaft (positioned at a height of 50 cm to 150 cm)
- B2** = For vertical shaft (positioned at a height above 170 cm)

Hollow shaft diameter

EP43NET:

- F12.7** = 12,7 mm (1/2")
- F14** = 14 mm

EP46NET:

- F19.05** = 19,05 mm (3/4")
- F20** = 20 mm
- F25** = 25 mm
- F25.4** = 25,4 mm (1")

Fieldbus interface

- PROFINET** = Profinet
- ETHERNETIP** = EtherNet/IP
- ETHERCAT** = EtherCat
- POWERLINK** = Ethernet Powerlink
- IOLINK** = IO-Link

Accessories (optional)

Type	FL-B-EP43	-	F14
FL-B-EP43	= Shaft clamping flange for EP43NET		
FL-B-EP46	= Shaft clamping flange for EP46NET		

Hollow shaft diameter

EP43NET:

- F12.7** = 12,7 mm (1/2")
- F14** = 14 mm

EP46NET:

- F19.05** = 19,05 mm (3/4")
- F20** = 20 mm
- F25** = 25 mm

Type	BF	-	14/12
BF	= Reducing bush for position indicator/hollow shaft		

Outer-/inner diameter

EP43NET:

- 14/12** = 12 mm
- 14/10** = 10 mm
- 14/8** = 8 mm
- 14/6** = 6 mm

EP46NET:

- 20/18** = 18 mm
- 20/16** = 16 mm
- 20/15** = 15 mm
- 20/14** = 14 mm
- 20/12** = 12 mm

Manufacturer:

