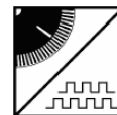


Incremental encoder-IBE50S series

Blind Hollow shaft version



- Industrial standard housing Ø 50mm
- Blind hollow shaft Ø10, Ø12, Ø14, Ø15, Ø16
- Up to 5000 PPR
- 4.5...30V with short circuit-proof, push-pull output
- 4.5V...30V with RS422 interface
- IP65



Electrical Data:

At +25°C	
Output waveform	Incremental (A, B)
Zero or index pulse	(Z) one pr. Rev.
Output	Push-pull. RS422 line driver
Supply-voltage (Vin)	Min 4,5V to Max. 30V * Reverse polarity protection
Current (no load)	Max. 45 mA
Max. load pr. output	30 mA -(Short circuit protected) *
V Out low	Max. 500 mV @ I =10 mA
Operating temp.	- 40°C to + 85°C
Storage temp.	- 40°C to + 85°C
Max. pulse frequency	300 kHz *
V out high	Min. (Vin -0,6) @ I = -10mA Min. (Vin -1,3) @ I = -25mA
Cable data	8 leads (0,14 mm ²) pair-twisted/shielded
Output signals	Standard, Inverted, Differential (RS-422A compatible)
Certified acc. to	EN 50081-1 and EN 50082-2
	*= It is not recommended to combine

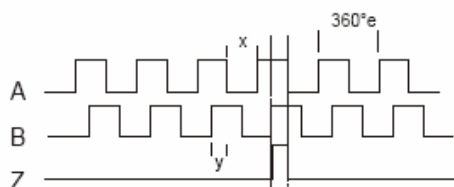


Blind Hollow shaft version

Signal output :



Rotation: Clockwise (cw) from shaftside



+ inverted channels

$X = 180^\circ e \pm 36^\circ e$ and
 $Y = 90^\circ e \pm 18^\circ e$

Connections :

Color code	Standard
Pink	Ch. A
Grey*	Ch. A Gnd
Green	Ch. B
Yellow*	Ch. B Gnd
White	Ch. Z
Brown*	Ch. Z Gnd
Red	Vcc
Blue*	Gnd

*Blue, grey, yellow and brown are internal connected

Color code	Differential or Inverted
Pink	Ch. A
Grey	Ch. A inv.
Green	Ch. B
Yellow	Ch. B inv.
White	Ch. Z
Brown	Ch. Z inv.
Red	Vcc
Blue	Gnd

Type code :

I B E 50S / [A].[B].[C].[D].[E].[F].[G]

IBE58G – incremental blind hollow shaft encoder housing ø50 mm

A: B10 – Ø10 blind hollow shaft

B12- Ø12 blind hollow shaft

B14- Ø14 blind hollow shaft

B15- Ø15 blind hollow shaft

B16- Ø16 blind hollow shaft

B: K1 – Cable 1m

C: R – radial

D: 3 – A+B+O

6 – A+B+O and A/+B/+O/

E: A – 4.5-30VDC Push pull

B – 4.5-30VDC RS422

F: G – general version

G: Pulse – 100, 360, 500, 1000, 1024, 2048, 2500, 3600, 4096, 5000