OEM Automatic Ltd

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KUEBLER - WIRE ENCODERS B80

SERIE D8.3B1



- Max measuring length 3000 mm
- -20° to +85°C
- Ready speeds up to 10 m / s
- Titan-anodized aluminum housing



PRODUCT DESCRIPTION

The Kübler wire generators are designed for demanding applications, for example within the machine building segment. The systems are robustly built with aluminum housing resistant to tough environments, they can handle high speed and have long life. The B80 series comes with analogue, incremental or absolute (SSI / BiSS, CANopen, Profibus, EtherCAT, Profinet or DeviceNet) outputs.

Please refer to the images below for ordering information.

Order code with encoder incremental, absolute)	D	8. X B1	. XXXX	(XXXX	. XXXX	Standard	variants are represented bold underlined	
Mechanics Encoder		5000, incremo M5863, absolu F5863, absolut M5868, absolut F5868 absolut	100, incremental 15863, absolute 1863, absolute 163, absolute 15868, absolute 1868 absolute 1868, absolute		Output circuit depends on the encoder used Type of connection depends on the encoder used Resolution / Protocol / Options depends on the encoder used Standard resolutions for draw wire we (12 bit ST) or M5888 (12 bit ST, program)				
				10000	tandard resolu	itions for draw	wire wi	- Sensor protection level IP67 - Improved linearity (0.02 %) th absolute encoder Sendix M5863	
				(1	tandard resolu	itions for draw 15868 (12 bit ST	wire wi	- Sensor protection level IP67 - Improved linearity (0.02 %) th absolute encoder Sendix M5863	
Standard resolutions for draw wire v	with incrementa	al encoder Se	ndix 5000	(1 Di	tandard resolu 2 bit ST) or M	itions for draw 15868 (12 bit ST rence [mm]	wire wi	Sensor protection level IP67 Improved linearity (0.02 %) th absolute encoder Sendix M5863 imable via bus)	
Standard resolutions for draw wire v	with increments	al encoder Se	ndix 5000 200	Di Pi	tandard resolu 2 bit ST) or M rum-circumfer	itions for draw 15868 (12 bit ST rence [mm]	wire wi	- Sensor protection level IP67 - Improved linearity (0.02 %) th absolute encoder Sendix M5863 imable via bus)	

Order code with encoder

(analog, scalable with limit switch function



Standard variants are represented **bold underlined**

- Mechanics
- 2 = interchangeable installation 1) 4 = fixed installation 2)
-
- Measuring range 0100 = 1000 mm
- 0200 = 2000 mm 0300 = 3000 mm
 - = 3000 mm
- Output circuit
 depends on the encoder used
- Type of connection depends on the encoder used
- Resolution / Protocol / Options depends on the encoder used

Optional on request

- Other measuring ranges
- Cable diameter 1 mm
- Eyelet or M4 wire fastening instead of wire clip
- Modified cable and/or connector orientation
- Modified cable outlet direction
- Sensor protection level IP67

Encoder used

Measuring range

0100 = 1000 mm

0200 = 2000 mm

0300 = 3000 mm

M1 = Sendix M5861, absolute 30

Recommended standard variants (with encoder analog, scalable with limit switch function)

Order no. draw wire encoder	Mounted encoder	Interface	Power supply	Type of connection	Resolution / Protocol	Option
D8.xB1.xxxx.M134.3512	Sendix M5861 (8.M5861.3534.3512)	Analog, 4 20 mA	10 30 V DC	radial M12 connector	12 Bit / 4 20 mA	scalable with limit switch function 4)
D8.xB1.xxxx.M144.4512	Sendix M5861 (8.M5861.3544.4512)	Analog, 0 10 V	15 30 V DC	radial M12 connector	12 Bit / 0 10 V	scalable with limit switch function 4)
D8.xB1.xxxx.M134.3612	Sendix M5861 (8.M5861.3534.3612)	Analog, 4 20 mA	10 30 V DC	radial M12 connector	12 Bit / 4 20 mA	scalable without limit switch function 4
D8.xB1.xxxx.M144.4612	Sendix M5861 (8.M5861.3544.4612)	Analog, 0 10 V	15 30 V DC	radial M12 connector	12 Bit / 0 10 V	scalable without limit switch function 4

D8.3B1

. XXXX

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Order code with analog sensor (scaled to measuring range)

Analog sensor output / power supply

A11 = 4 ... 20 mA / 12 ... 30 V DC A22 = 0 ... 10 V / 12 ... 30 V DC

A33 = potentiometer 1 kΩ / max. 30 V DC

Type of connection

1 = axial cable, 2 m PVC

3 = axial M12 connector, 4-pin

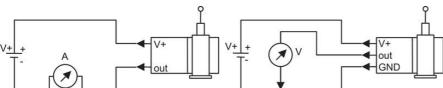
Optional on request

XXX X

- Other measuring ranges
- Cable diameter 1 mm
- Eyelet or M4 wire fastening instead of wire clip
- Modified cable and/or connector orientation

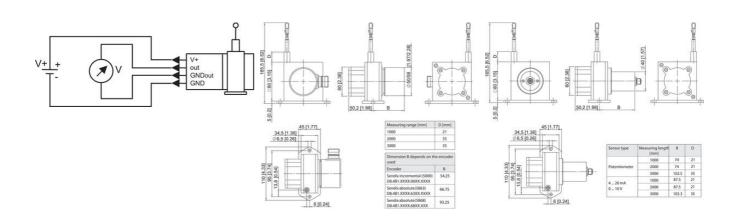
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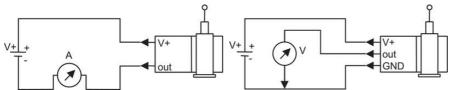
- Modified cable outlet direction
- Sensor protection level IP67
- Improved linearity (0.02 %)
- Increased temperature range -40°C ... +85°C and
- -20°C ... +120°C



Pin	1	2	3	4
Cable colour	brown	white	blue	black
0 10V	V+	Signal	GND	GND Sig
4 20 mA	V+	n. c.	Signal	n.c.
1 kOhm	V+	Slider	GND	n.c.







Pin	1	2	3	4
Cable colour	brown	white	blue	black
0 10V	V+	Signal	GND	GND Sig
4 20 mA	V+	n. c.	Signal	n. c.
1 kOhm	V+	Slider	GND	n.c.



