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KUEBLER - WIRE ENCODERS B80

SERIE D8.XB1



- 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	Χ.		X Standard v	ariants are represented bold underlined
 Mechanics interchangeable installation ¹⁾ fixed installation ²⁾ Measuring range Measuring range Measuring range<th colspan="3"> Output circuit depends on the encoder used Other measuring ranges Cable diameter 1 mm Eyelet or M4 wire fastening depends on the encoder used Resolution / Protocol / Options depends on the encoder used Modified cable outlet direct Modified cable outlet direct </th><th> 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 Improved linearity (0.02 %) absolute encoder Sendix M5863 </th>			 Output circuit depends on the encoder used Other measuring ranges Cable diameter 1 mm Eyelet or M4 wire fastening depends on the encoder used Resolution / Protocol / Options depends on the encoder used Modified cable outlet direct Modified cable outlet direct 			 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 Improved linearity (0.02 %) absolute encoder Sendix M5863 	
Drum circumference [mm]	200	200	200	D	rum circumference [mm]		200
Pulses / revolution [ppr]	200	2000	4000	Pulses / revolution [ppr]			4096
Pulses / mm	1	10	20	P	ulses / mm		20.5
Resolution [mm]	1	0.1	0.05	B	esolution [mm]		0.05

Order code with encoder (analog, scalable with limit switch function)						
 Mechanics 2 = interchangeable installation ¹⁾ 4 = fixed installation ²⁾ 	Output circuit depends on the	encoder used	Optional on request - Other measuring ranges - Cable diameter 1 mm			
Measuring range 0100 = 1000 mm	 Type of connect depends on the 		 Modified cable and/or cor 	- Eyelet or M4 wire fastening instead of wire clip Modified cable and/or connector orientation Modified cable outlet direction		
0200 = 2000 mm 0300 = 3000 mm	Resolution / Pro- depends on the		- Sensor protection level IP	267		
G Encoder used						

M1 = Sendix M5861, absolute 3)

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

Туре

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Order code with analog sensor (scaled to measuring range)

Measuring range
 0100 = 1000 mm
 0200 = 2000 mm
 0300 = 3000 mm

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Analog sensor output / power supply
 A11 = 4 ... 20 mA / 12 ... 30 V DC
 A22 = 0 ... 10 V / 12 ... 30 V DC

A33 = potentiometer 1 k Ω / max. 30 V DC

• Type of connection

- 1 = axial cable, 2 m PVC
- 3 = axial M12 connector, 4-pin

Optional on request

- Other measuring ranges

- Cable diameter 1 mm
- Eyelet or M4 wire fastening instead of wire clip

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- Modified cable and/or connector orientation
- 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 Cable colou 0 ... 10V 4 ... 20 mA 1 kOhm blue GND Signal GND white Signal n.c. Slider black GND Sig. n. c. n. c. V+ V+ V+ V+ **↓** V+ V+ V+ V+ + V * dut
 GND A out .





