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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	. XXX	Χ.			andard variants are represented <b>bold underlined</b>
<ul> <li>Mechanics         <ul> <li>interchangeable installation <sup>11</sup></li> <li>fixed installation <sup>22</sup></li> </ul> </li> <li>Measuring range         <ul> <li>Measuring range</li> <li>Sendix 5863, absolute</li> <li>Sendix 5868, absolute</li> <li>Sendix 5868, absolute</li> <li>Sendix 5868, absolute</li> <li>Sendix 5868, absolute</li> </ul> </li> </ul>			<ul> <li>Output circuit depends on the encoder used</li> <li>Type of connection depends on the encoder used</li> <li>Resolution / Protocol / Options depends on the encoder used</li> </ul>			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 - Improved linearity (0.02 %) re with absolute encoder Sendix M5863 ogrammable via bus)	
Drum circumference [mm]	200	200	200	D	rum circumfere	ence [mm]	200
Pulses / revolution [ppr]	200	2000	4000	P	ulses / revolutio	on (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 lim	it switch function			Standard variants are represented <b>bold underlined</b>		
<ul> <li>Mechanics</li> <li>2 = interchangeable installation <sup>1)</sup></li> <li>4 = fixed installation <sup>2)</sup></li> </ul>	<ul> <li>Output circuit depends on the </li> </ul>	encoder used	Optional on request - Other measuring ranges - Cable diameter 1 mm	- Other measuring ranges		
Measuring range 0100 = 1000 mm	<ul> <li>Type of connects depends on the</li> </ul>		<ul> <li>Eyelet or M4 wire fastening instead of wire clip</li> <li>Modified cable and/or connector orientation</li> <li>Modified cable outlet direction</li> </ul>			
0200 = 2000 mm 0300 = 3000 mm	Resolution / Prot depends on the o		- Sensor protection level IP	67		

G Encoder used M1 = Sendix M5861, absolute <sup>30</sup>

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 40
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

## Order code with analog sensor (scaled to measuring range)

# $\begin{array}{c|c} \mathsf{D8.3B1}\\ _{\mathsf{Type}} \mathsf{.} \end{array} \mathbf{.} \begin{array}{c} \mathsf{XXXX}\\ \bullet \end{array} \mathbf{.} \begin{array}{c} \mathsf{XXX}\\ \bullet \end{array} \mathbf{.} \begin{array}{c} \mathsf{XXX}\\ \bullet \end{array} \mathbf{.} \end{array} \mathbf{.}$

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 $\Omega$  / max. 30 V DC

### G 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
- Sensor protection level (P6)
   Improved linearity (0.02 %)
- Increased temperature range -40°C ... +85°C and -20°C ... +120°C



