

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)

D8.XB1.XXXX.XXX.XXX.XXXX

a

b

c

d

e

f

Standard variants are represented **bold underlined**

a

Mechanics

2 = interchangeable installation ¹⁾

4 = **fixed installation** ²⁾

b

Measuring range

0100 = 1000 mm

0200 = 2000 mm

0300 = 3000 mm

c

Encoder used

00 = **Sendix 5000**, incremental

M3 = **Sendix M5863**, absolute

F3 = Sendix F5863, absolute

63 = Sendix 5863, absolute

M8 = **Sendix M5868**, absolute

F8 = Sendix F5868 absolute

68 = Sendix 5868, absolute

d

Output circuit

depends on the encoder used

e

Type of connection

depends on the encoder used

f

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
- Improved linearity (0.02 %)

Standard resolutions for draw wire with incremental encoder Sendix 5000

Drum circumference [mm]	200	200	200
Pulses / revolution [ppr]	200	2000	4000
Pulses / mm	1	10	20
Resolution [mm]	1	0.1	0.05

Standard resolutions for draw wire with absolute encoder Sendix M5863 (12 bit ST) or M5868 (12 bit ST, programmable via bus)

Drum circumference [mm]	200
Pulses / revolution [ppr]	4096
Pulses / mm	20.5
Resolution [mm]	0.05

Order code with encoder (analog, scalable with limit switch function)

D8.XB1.XXXX.M1XX.XXXX
a b c d e f

Standard variants are
represented **bold underlined**

a Mechanics

2 = interchangeable installation ¹⁾
4 = **fixed installation** ²⁾

b Measuring range

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

c Encoder used

M1 = **Sendix M5861, absolute** ³⁾

d Output circuit

depends on the encoder used

e Type of connection

depends on the encoder used

f 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

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⁾

Order code with analog sensor (scaled to measuring range)

D8.3B1.XXXX.XXX.X.0000
Type a b c

a Measuring range

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

b 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

c 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
- 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



