KUEBLER - WIRE ENCODERS D135

SERIE D8.4D1

- Max measuring length 40000 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 D135 series comes with analogue, incremental or absolute (SSI / BiSS, CANopen, Profibus, EtherCAT, Profinet or DeviceNet) outputs, and up to 42 500mm drag wires.

Order code with en incremental, absol	00.101.	XXX		Standard variants are represented bold underlined
Measuring range	Encoder used	0	Output circuit	Optional on request
0800 = 8 000 mm	00 = Sendix 5000, incremental		depends on the encoder used	- Other measuring ranges
1000 = 10 000 mm	M3 = Sendix M5863, absolute			- Cable diameter 1 mm
200 = 12 000 mm	F3 = Sendix F5863, absolute	0	Type of connection	 Eyelet or M4 wire fastening instea
500 = 15 000 mm	63 = Sendix 5863, absolute		depends on the encoder used	of wire clip
2000 = 20 000 mm	M8 = Sendix M5868, absolute			 Modified cable and/or connector
2500 = 25 000 mm	F8 = Sendix F5868 absolute	0	Resolution / Protocol / Options	orientation
3000 = 30 000 mm	68 = Sendix 5868, absolute		depends on the encoder used	- Modified cable outlet direction
3500 = 35 000 mm				- Sensor protection level IP67
1000 = 40 000 mm				- Improved linearity (0.02 %)
1250 = 42 500 mm				

Drum circumference [mm]	333.33	333.33	333.33
Pulses / revolution [ppr]	1000	2000	4000
Pulses / mm	3	6	12
Resolution [mm]	0.33	0.17	0.08

Standard resolutions for draw wire with absolute encoder Sendix M5863 (12 bit ST) or M5868 (12 bit ST, programmable via bus)		
Drum circumference [mm]	333.33	
Pulses / revolution [ppr]	4096	
Pulses / mm	12.3	
Resolution [mm]	0.08	

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

$\begin{bmatrix} 0.8.4 & 0.1 \\ Type \end{bmatrix} \cdot \begin{bmatrix} XXXXX \\ \bullet \end{bmatrix} \cdot \begin{bmatrix} M.1 & X & X \\ \bullet \end{bmatrix} \cdot \begin{bmatrix} XXXXX \\ \bullet \end{bmatrix}$

Standard variants are represented **bold underlined**

Measuring range

0800 = 8 000 mm 1000 = 10 000 mm

1200 = 10 000 mm

1500 = 15 000 mm

2000 = 20 000 mm

2500 = 25 000 mm

3000 = 30 000 mm

3500 = 35 000 mm

4000 = 40 000 mm

4250 = 42 500 mm

6 Encoder used M1 = Sendix M5861, absolute 1)

- 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

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.xD1.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 2)
D8.xD1.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 2)
D8.xD1.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 2)
D8.xD1.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 2)

Order code with analog sensor (scaled to measuring range)

 $\begin{bmatrix} D8.3D1 \\ Type \end{bmatrix} \cdot \begin{bmatrix} XXXXX \\ \bullet \end{bmatrix} \cdot \begin{bmatrix} XXXX \\ \bullet \end{bmatrix} \cdot \begin{bmatrix} 0000 \\ \bullet \end{bmatrix}$

Measuring range

0800 = 8 000 mm

1000 = 10 000 mm

1500 = 15 000 mm

2000 = 20 000 mm 2500 = 25 000 mm

3000 = 30 000 mm

3500 = 35 000 mm

4000 = 40 000 mm

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

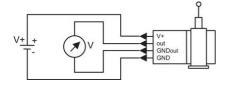
© Type of connection

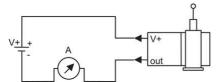
1 = axial cable, 2 m [6.56'] PVC

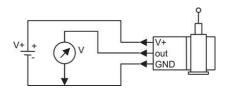
3 = axial M12 connector, 4-pin

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







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.



