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.

| | 0 | | |
|---|--|---|---|
| Encoder used | 0 | Output circuit | Optional on request |
| 00 = Sendix 5000, incremental | | depends on the encoder used | Other measuring ranges |
| M3 = Sendix M5863, absolute | | | - Cable diameter 1 mm |
| F3 = Sendix F5863, absolute | 0 | Type of connection | Eyelet or M4 wire fastening instead |
| 63 = Sendix 5863, absolute | | depends on the encoder used | of wire clip |
| M8 = Sendix M5868, absolute | | | Modified cable and/or connector |
| F8 = Sendix F5868 absolute | 0 | Resolution / Protocol / Options | orientation |
| 68 = Sendix 5868, absolute | | depends on the encoder used | Modified cable outlet direction |
| | | | Sensor protection level IP67 |
| | | | - Improved linearity (0.02 %) |
| | | | |
| wire with incremental encoder Sendiy 50 | nnn | Standard resolutions for draw | wire with absolute encoder Sendix M5863 |
| | 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 | 00 = Sendix 5000, incremental M3 = Sendix M5863, absolute F3 = Sendix F5863, absolute 63 = Sendix 5863, absolute M8 = Sendix M5868, absolute F8 = Sendix F5868 absolute | M3 = Sendix M5863, absolute F3 = Sendix F5863, absolute G3 = Sendix F5868, absolute M8 = Sendix M5868, absolute F8 = Sendix F5868 absolute F8 = Sendix F5868 absolute G8 = Sendix 5868, absolute G9 Resolution / Protocol / Options depends on the encoder used |

| Standard resolutions for draw wire with incremental encoder Sendix 5000 | | | enaix 5000 | (12 bit ST) or M5868 (12 bit ST, programmable via bus) | | |
|---|--------|--------|------------|--|--------|--|
| Drum circumference [mm] | 333.33 | 333.33 | 333.33 | Drum circumference [mm] | 333.33 | |
| Pulses / revolution [ppr] | 1000 | 2000 | 4000 | Pulses / revolution [ppr] | 4096 | |
| Pulses / mm | 3 | 6 | 12 | Pulses / mm | 12.3 | |
| Resolution [mm] | 0.33 | 0.17 | 0.08 | Resolution [mm] | 0.08 | |

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

Type





Standard variants are represented bold underlined

Measuring range

- 0800 = 8 000 mm
- 1000 = 10 000 mm
- 1200 = 12 000 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

XXXX

0

- 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)

XXXX D8.3D1 Туре 0

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

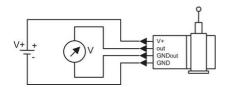
- Other measuring ranges
- Cable diameter 1 mm
- Eyelet or M4 wire fastening instead of wire clip

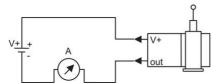
0000

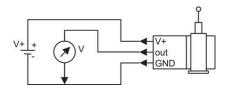
- Modified cable and/or connector orientation
- Modified cable outlet direction

0

- 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. |



