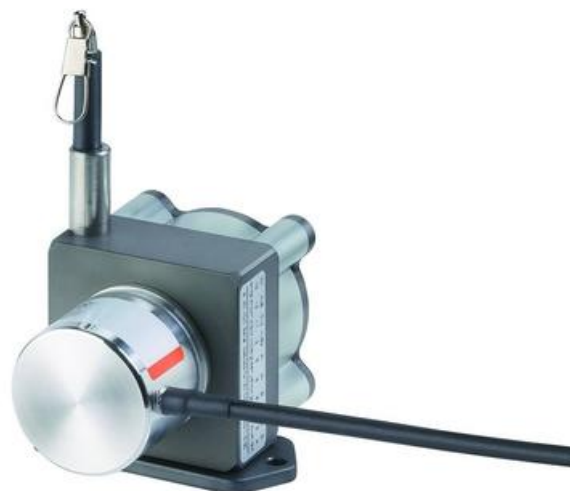


KUEBLER - WIRE ENCODERS A50

SERIE D8.6A1

- Max measuring length 1 250 mm
- -20 to +85 °C
- Titanium anodized aluminum housing
- Compact dimensions



PRODUCT DESCRIPTION

The Kübler Miniature Wire Giver A50 is designed for simpler applications with lower speeds. The housing can be combined with digital and analogue encoder. Maximum wire length is 1250mm.

Please refer to the images below for ordering information.

| Order code with encoder (incremental, absolute) | | D8.6A1 . XXXX . XXXX . XXXX | | | | | Standard variants are represented <u>bold underlined</u> |
|---|---|-----------------------------|------|---|---|---|---|
| | | Type | a | b | c | d | |
| a Measuring range | b Encoder used | | | | | | |
| 0025 = 250 mm | 36 = Sendix 3610, incremental | | | | | | |
| 0050 = 500 mm | M3 = Sendix M3663, absolute, SSI | | | | | | |
| 0125 = 1250 mm | F3 = Sendix F3663, absolute, SSI | | | | | | |
| | M8 = Sendix M3668, absolute, CANopen | | | | | | |
| | F8 = Sendix F3668, absolute, CANopen | | | | | | |
| | c Output circuit | | | | | | |
| | depends on the encoder used | | | | | | |
| | d Type of connection | | | | | | |
| | depends on the encoder used | | | | | | |
| | e Resolution / Protocol / Options | | | | | | |
| | depends on the encoder used | | | | | | |
| Optional on request | | | | | | | |
| - Other measuring ranges | | | | | | | |
| - 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 3610 | | | | | | | |
| Drum circumference [mm] | 125 | 125 | 125 | | | | |
| Pulses / revolution [ppr] | 125 | 1250 | 2500 | | | | |
| Pulses / mm | 1 | 10 | 20 | | | | |
| Resolution [mm] | 1 | 0.1 | 0.05 | | | | |
| Standard resolutions for draw wire with absolute encoder Sendix F3663/M3663 (12 bit ST) or F3668/M3668 (12 bit ST, programmable via bus) | | | | | | | |
| Drum circumference [mm] | | | 125 | | | | |
| Pulses / revolution [ppr] | | | 4096 | | | | |
| Pulses / mm | | | 32.8 | | | | |
| Resolution [mm] | | | 0.03 | | | | |

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

D8.6A1 . **XXXX** . **M1XX** . **XXXX**
Type a b c d e

Standard variants are represented **bold underlined**

a Measuring range
0025 = 250 mm
0050 = 500 mm
0125 = 1250 mm

b Encoder used
M1 = Sendix M3661, absolute ¹⁾

c Output circuit
depends on the encoder used

d Type of connection
depends on the encoder used

e Resolution / Protocol / Options
depends on the encoder used

Optional on request

- Other measuring ranges
- 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 %)

Recommended standard variants (with analog encoder, scalable with limit switch function)

| Order no. draw wire encoder | Mounted encoder | Interface | Power supply | Type of connection | Resolution / Protocol | Option |
|--------------------------------|----------------------------------|---------------------|----------------|--------------------|-----------------------|--|
| D8.6A1.xxxx.M134.3612 | Sendix M3661 (8.M3661.4134.3612) | Analog, 4 ... 20 mA | 10 ... 30 V DC | M12-Stecker radial | 12 Bit / 4 ... 20 mA | scalable without limit switch function ²⁾ |
| D8.6A1.xxxx.M144.4612 | Sendix M3661 (8.M3661.4144.4612) | Analog, 0 ... 10 V | 15 ... 30 V DC | M12-Stecker radial | 12 Bit / 0 ... 10 V | scalable without limit switch function ²⁾ |
| D8.6A1.xxxx.M134.3512 | Sendix M3661 (8.M3661.4134.3512) | Analog, 4 ... 20 mA | 10 ... 30 V DC | M12-Stecker radial | 12 Bit / 4 ... 20 mA | scalable with limit switch function ³⁾ |
| D8.6A1.xxxx.M144.4512 | Sendix M3661 (8.M3661.4144.4512) | Analog, 0 ... 10 V | 15 ... 30 V DC | M12-Stecker radial | 12 Bit / 0 ... 10 V | scalable with limit switch function ³⁾ |

Order code with analog sensor (scaled to measuring range)

D8.3A1 . **XXXX** . **XXX X** . **0000**
Type a b c

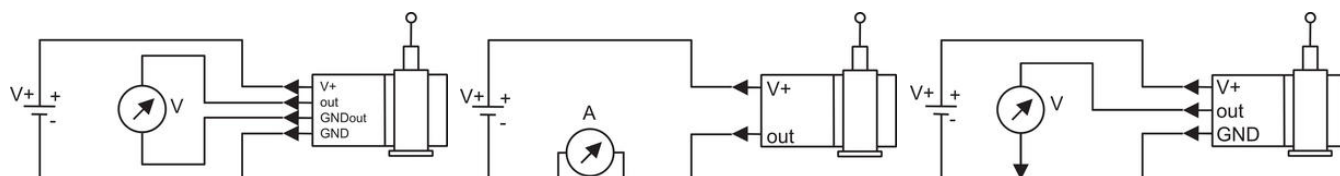
a Measuring range
0025 = 250 mm
0050 = 500 mm
0125 = 1250 mm

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

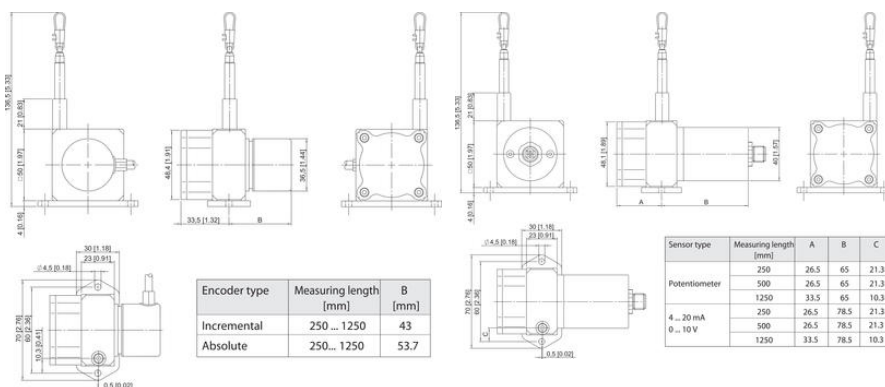
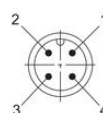
c Type of connection
1 = axial cable, 2 m PVC
3 = axial M12 connector, 4-pin

Optional on request

- Other measuring ranges
- 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 kΩhm | V+ | Slider | GND | n.c. |



| Encoder type | Measuring length (mm) | B (mm) |
|--------------|-----------------------|--------|
| Incremental | 250 ... 1250 | 43 |
| Absolute | 250... 1250 | 53.7 |

| Sensor type | Measuring length (mm) | A | B | C |
|---------------|-----------------------|------|------|------|
| Potentiometer | 250 | 26.5 | 65 | 21.3 |
| | 500 | 26.5 | 65 | 21.3 |
| | 1250 | 33.5 | 65 | 10.3 |
| 4 ... 20 mA | 250 | 26.5 | 78.5 | 21.3 |
| 0 ... 10 V | 500 | 26.5 | 78.5 | 21.3 |
| | 1250 | 33.5 | 78.5 | 10.3 |