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D135 ENKODER LINKOWY

Przetwornik cięgnowy / mechanizm linkowy z enkoderem

SERIE D8.4D1

- Max. zakres pomiarowy: 40 m
- Zakres temperatur: -20° do +85°C
- Aluminiowa obudowa 135 x 135 mm
- Prędkość przemieszczenia max. 10 m/s
- Łatwa instalacja

OPIS PRODUKTU

Enkodery linkowe używa się w aplikacjach, gdzie istnieje potrzeba pomiaru ruchu liniowego. Wystarczy zamocować linkę aktywatora na ruchomej części, a linka i mechanizm spowodują ruch obrotowy enkodera. Stałe napięcie linki jest wymuszone wewnętrzną sprężyną zwijającą. Obudowa enkodera zbudowana jest z anodowego aluminium pokrytego tytanem. Enkoder linkowy składa się z bębna obracającego się na łożyskach, połączonego z mechanizmem zwijającym. Wszystkie modele dostępne są z zabudowanymi enkoderami z wyjściem inkrementalnym, analogowym, rezystancyjnym, natomiast modele B80, C120 i D135 dodatkowo z enkoderami z wyjściem absolutnym lub sieciowym. Zakres pomiarowy enkoderów linkowych wynosi od 25 cm do 40 m, w zależności od modelu.
Enkodery te charakteryzują się:
- wysoką żywotnością około 2 milionów kompletnych cykli
- bardzo wysoką odpornością na wibracje
- szerokim zakresem temperatury pracy
- dużą szybkością
- dużym przyspieszeniem

W celu określenia numeru katalogowego proszę o zapoznanie się z poniższymi informacjami.

Order code with encoder (incremental, absolute)

D8.4D1	.	XXXX	.	XX	X	X	.	XXXX
Type		a		b	c	d		e

Standard variants are represented **bold underlined**

a *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

b *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

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
- 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]	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)

D8.4D1	.	XXXX	.	M1	X	X	.	XXXX
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

ⓑ *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)

D8.3D1	.	XXXX	.	XXX	X	.	0000
Type		ⓐ		ⓑ	ⓒ		

ⓐ *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 kΩ / 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

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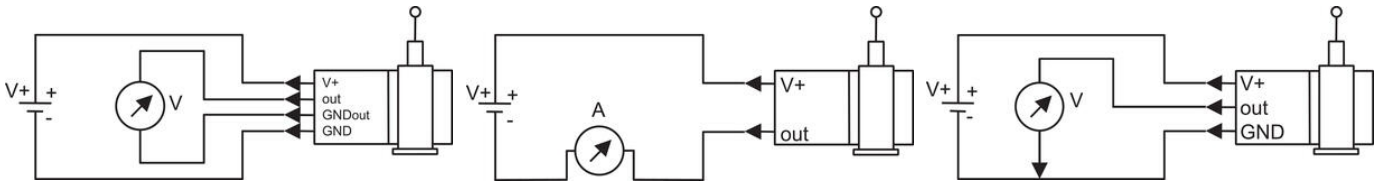
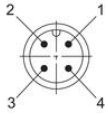
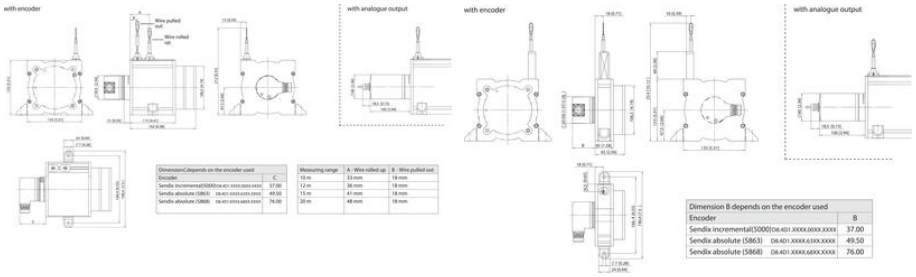


Pin	1	2	3	4
Cable colour	brown	white	blue	black
0 ... 10V	V+	Signal	GND	GND Sig.
4 ... 20 mA	V+	n. c.	Signal	n. c.
1 kOhm	V+	Slider	GND	n. c.

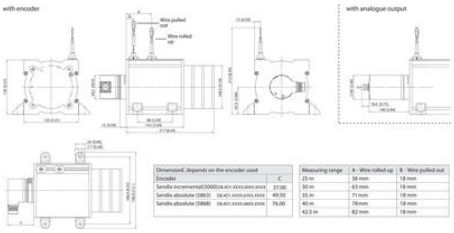




Dimension C depends on the encoder used	
Encoder	C
Sendix incremental (5000) (D8.4D1.XXXX.D000.XXXX)	37.00
Sendix absolute (5863) (D8.4D1.XXXX.63XX.XXXX)	49.50
Sendix absolute (5868) (D8.4D1.XXXX.68XX.XXXX)	76.00

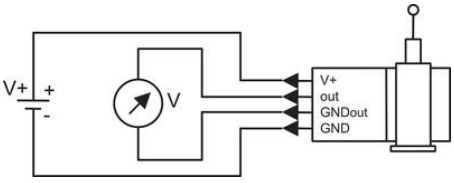
Measuring range	A - Wire rolled up	B - Wire pulled out
10 m	33 mm	18 mm
12 m	36 mm	18 mm
15 m	41 mm	18 mm
20 m	48 mm	18 mm

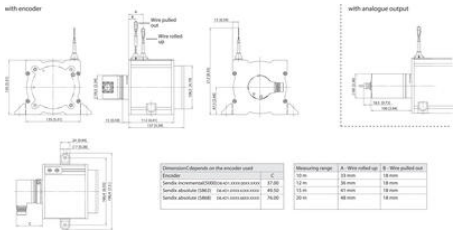
Dimension B depends on the encoder used	
Encoder	B
Sendix incremental (5000) (D8.4D1.XXXX.D000.XXXX)	37.00
Sendix absolute (5863) (D8.4D1.XXXX.63XX.XXXX)	49.50
Sendix absolute (5868) (D8.4D1.XXXX.68XX.XXXX)	76.00



Encoder	C
Sendix incremental(5000)(58.4Q1.XXXX.6XXX.XXXX)	37.00
Sendix absolute (5863) (58.4Q1.XXXX.63XX.XXXX	49.50
Sendix absolute (5868) (58.4Q1.XXXX.68XX.XXXX	76.00

Measuring range	A - Wire rolled up	B - Wire pulled out
25 m	56 mm	18 mm
30 m	63 mm	18 mm
35 m	71 mm	18 mm
40 m	78mm	18 mm
42.5 m	82 mm	18 mm





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Sendix incremental(5000)(58.4Q1.XXXX.6XXX.XXXX)	37.00
Sendix absolute (5863) (58.4Q1.XXXX.63XX.XXXX	49.50
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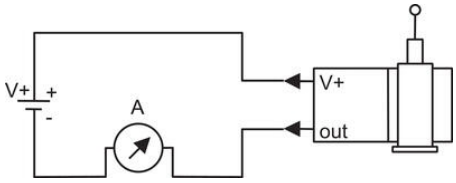

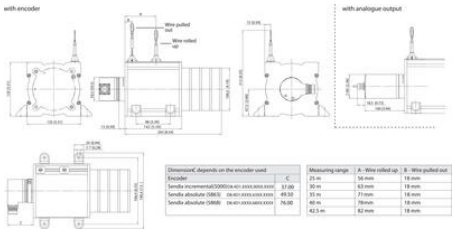

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Sendix incremental(5000)(58.4Q1.XXXX.6XXX.XXXX)	37.00
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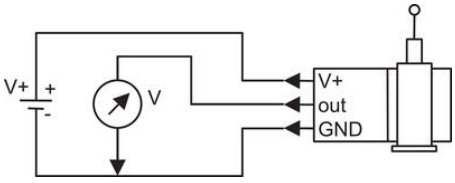

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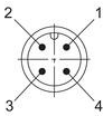

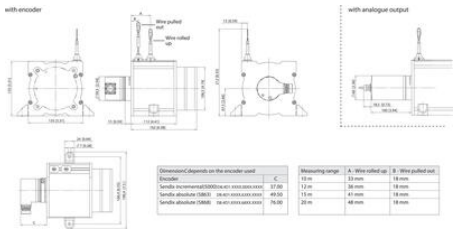

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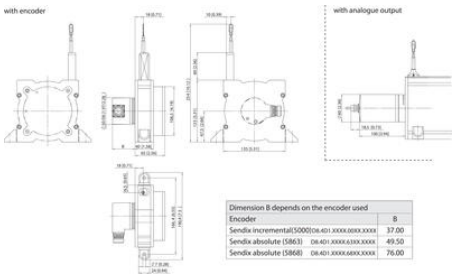

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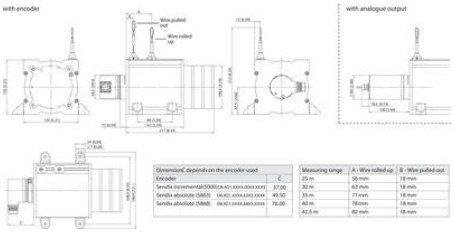

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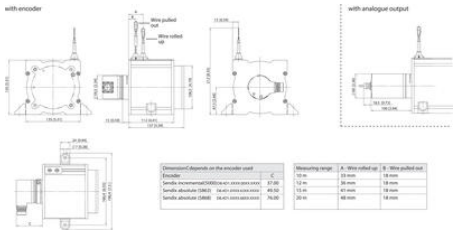

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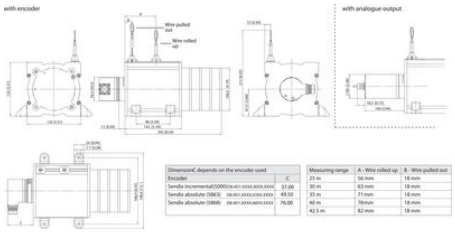

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