

KUEBLER - WIRE ENCODERS C120

SERIE D8.XC1

- Measurement length 6000 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 C120 series comes with analogue, incremental or absolute (SSI / BiSS, CANopen, Profibus, EtherCAT, Profinet or DeviceNet) outputs.

CE approval

EN 61000-6-2, EN 61000-6-3

ROHS approval

EU Guideline 2002/95 / EC

Please refer to the images below for ordering information.

Order code with encoder (incremental, absolute)		D8.XC1.0600.XX.XX.XXXX							Standard variants are represented bold underlined
		a	b	c	d	e	f		
a <i>Mechanics</i> 2 = interchangeable installation ¹⁾ 4 = fixed installation ²⁾		c <i>Encoder used</i> 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 <i>Output circuit</i> depends on the encoder used		e <i>Type of connection</i> depends on the encoder used		f <i>Resolution / Protocol / Options</i> depends on the encoder used	
b <i>Measuring range</i> 0600 = 6000 mm		<i>Optional on request</i> - 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]	317.68	317.68	317.68
Pulses / revolution [ppr]	1000	2000	4000
Pulses / mm	3.1	6.3	12.6
Resolution [mm]	0.32	0.16	0.08

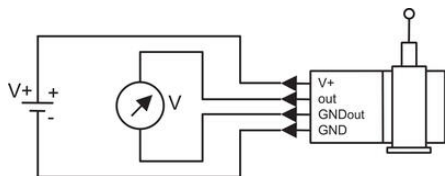
Standard resolutions for draw wire with absolute encoder Sendix M5863 (12 bit ST) or M5868 (12 bit ST, programmable via bus)	
Drum circumference [mm]	317.68
Pulses / revolution [ppr]	4096
Pulses / mm	12.9
Resolution [mm]	0.08

Standard variants are represented **bold underlined**

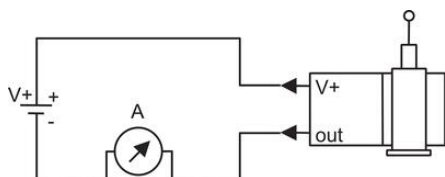
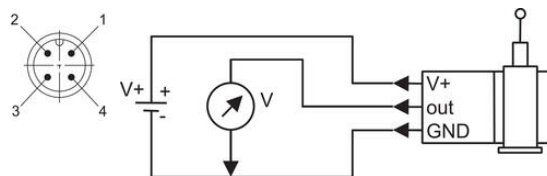
- Sensor protection level IP67

Order no. draw wire encoder	Mounted encoder	Interface	Power supply	Type of connection	Resolution / Protocol	Option
D8.xC1.0600.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.xC1.0600.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.xC1.0600.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.xC1.0600.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⁾

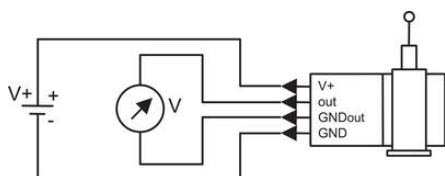
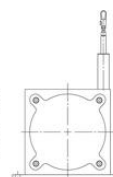
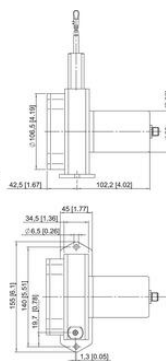
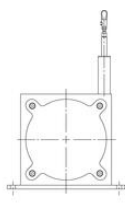
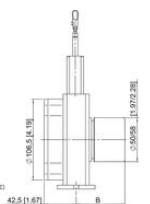
- Increased temperature range -40°C ... +85°C and -20°C ... +120°C



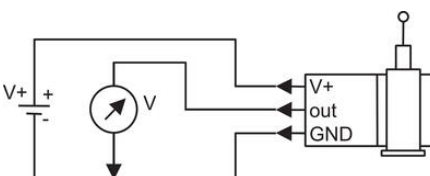
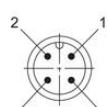
Pin	1	2	3	4
Cable colour	brown	white	blue	black
0 ... 10V	V+	Signal	GND	GND Sig.
4 ... 20 mA	V+	n. c.	Signal	n. c.
1 kOhm	V+	Slider	GND	n. c.

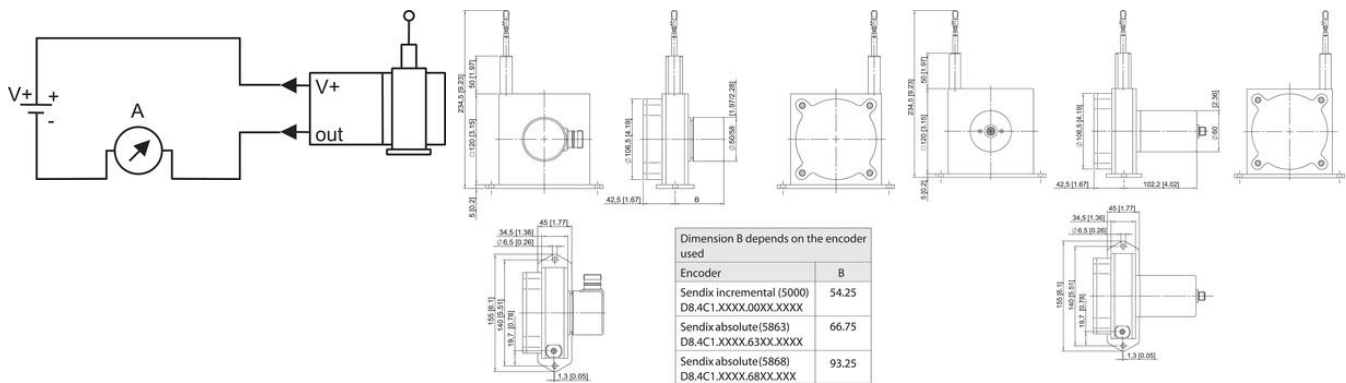


Encoder	B
Sendix incremental (5000) D8.4C1.XXXX.00XX.XXXX	54.25
Sendix absolute(5863) D8.4C1.XXXX.63XX.XXXX	66.75
Sendix absolute(5868) D8.4C1.XXXX.68XX.XXX	93.25



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 B depends on the encoder used

Encoder	B
Sendix incremental (5000) D8.4C1.XXXX.00XX.XXXX	54.25
Sendix absolute (5863) D8.4C1.XXXX.63XX.XXXX	66.75
Sendix absolute (5868) D8.4C1.XXXX.68XX.XXX	93.25