

## 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 <b><u>bold underlined</u></b>
		a	b	c	d	e	i	
<b>a</b> <i>Mechanics</i> 2 = interchangeable installation <sup>1)</sup> <b>4</b> = <b>fixed installation</b> <sup>2)</sup>	<b>c</b> <i>Encoder used</i> <b>00</b> = <b>Sendix 5000, incremental</b> <b>M3</b> = <b>Sendix M5863, absolute</b> F3 = Sendix F5863, absolute 63 = Sendix 5863, absolute <b>M8</b> = <b>Sendix M5868, absolute</b> F8 = Sendix F5868 absolute 68 = Sendix 5868, absolute							<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 %)
<b>b</b> <i>Measuring range</i> 0600 = 6000 mm				<b>d</b> <i>Output circuit</i> depends on the encoder used	<b>e</b> <i>Type of connection</i> depends on the encoder used	<b>i</b> <i>Resolution / Protocol / Options</i> depends on the encoder used		
<b>Standard resolutions for draw wire with incremental encoder Sendix 5000</b>		<b>Standard resolutions for draw wire with absolute encoder Sendix M5863 (12 bit ST) or M5868 (12 bit ST, programmable via bus)</b>						
Drum circumference [mm]	317.68	317.68	317.68	Drum circumference [mm]		317.68		
Pulses / revolution [ppr]	1000	2000	4000	Pulses / revolution [ppr]		4096		
Pulses / mm	3.1	6.3	12.6	Pulses / mm		12.9		
Resolution [mm]	0.32	0.16	0.08	Resolution [mm]		0.08		

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

**D8.XC1.0600.M1XX.XXXX**

Standard variants are represented **bold underlined**

### a Mechanics

2 = interchangeable installation <sup>1)</sup>  
4 = **fixed installation** <sup>2)</sup>

**b Measuring range**  
0600 = 6000 mm

### c Encoder used

**M1 = Sendix M5861, absolute** <sup>3)</sup>

### d Output circuit

depends on the encoder used

### e Type of connection

depends on the encoder used

### f 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.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 <sup>4)</sup>
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 <sup>4)</sup>
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 <sup>4)</sup>
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 <sup>4)</sup>

## Order code with analog sensor (scaled to measuring range)

**D8.3C1.0600.XXX.X.0000**

**a Measuring range**  
0600 = 6000 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
- 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

