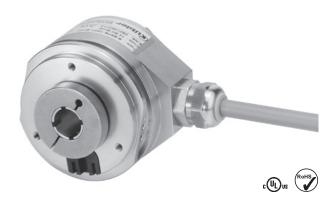


Incremental Encoders

Stainless steel, optical

Sendix 5826 (Hollow shaft)

Push-Pull / RS422



Thanks to their stainless-steel housing, the incremental hollow shaft encoders type 5826 are particularly suitable for those applications that make high demands on the composition and properties of the materials used.

Stainless steel encoders are therefore often used in areas subjected to aggressive cleaning materials, as a result of high hygiene requirements.















Shock / vibration I resistant

Magnetic field Short-ci proof proo

Optical sens

Custom-fit

- · With cable connection
- . Through hollow shaft with 10 mm or 12 mm diameter
- · Protection up to IP66

Adaptable

- · High resolution up to 5000 PPR
- Numerous connection possibilities, thanks to wide range of interfaces and supply voltages

Order code Hollow shaft

8.5826 Type







1 = with through shaft

b Hollow shaft

 $6 = \emptyset 10 \text{ mm with seal}$

 $8 = \emptyset$ 12 mm with seal

• Output circuit / Power supply

- 1 = RS422 (with inverted signal) / 5 V DC
- 2 = Push-Pull (without inverted signal) / 10 ... 30 V DC
- 3 = Push-Pull (with inverted signal) / 10 ... 30 V DC
- 4 = RS422 (with inverted signal) / 10 ... 30 V DC
- 5 = Push-Pull (without inverted signal) / 5 ... 30V DC 6 = Push-Pull (with inverted signal) / 5 ... 30 V DC
- 7 = RS422 (with inverted signal) / 5 ... 30 V DC

d Type of connection

1 = radial cable (1 m PUR cable)

Pulse rate

25, 50, 60, 100, 125, 200, 250, 256, 300, 360, 500, 512, 600, 720, 800, 1000, 1024, 1200, 1250, 1500, 2000, 2048, 2500, 3000, 3600, 4000, 4096, 5000

(e.g. 100 pulses => 0100) Other pulse rates on request

Terminal assignment

Signal	0 V	0 V	+UB	+U _B	Α	Ā	В	B	0	ō
		Sensor 1)		Sensor 1)						
Cable colour	WH	GY	BN	BU	GN	YE	GY	PK	BU	RD
		PK		RD						

If the circuits are not being used, then they should be individually isolated and not connected.

Using RS422 outputs and long cable distances, a wave impedance has to be applied at each cable end.

Isolate unused outputs before initial start-up.

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The sensor cables are connected to the supply voltage internally.
 If long feeder cables are involved they can be used to adjust or control the voltage at the encoder.



Incremental Encoders

Sendix 5826 (Hollow shaft) Stainless steel, optical Push-Pull / RS422

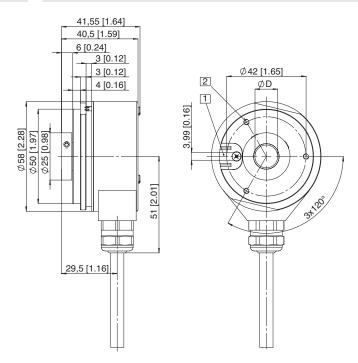
Mechanical characteristics	;	
Speed		max. 6000 min ^{-1 1)}
Rotor moment of inertia		approx. 6.0 x 10 ⁻⁶ kgm ²
Starting torque		< 0.05 Nm
Weight		approx. 0.4 kg
Protection acc. to EN 60 529		IP66
Working temperature range	without seal	-20°C +80°C
Materials	stainless steel	
Shock resistance acc. EN 60068-	2000 m/s ² , 6 ms	
Vibration resistance acc. EN 6000	100 m/s², 10 2000 Hz	

Electrical characteristics						
Output circuit		RS422 (TTL-compatible)	Push-Pull			
Power supply		5 V (±5 %) or 1030 V DC	10 30 V DC			
Power consump	tion (no loa	d)				
without inverted signal with inverted signal		- typ. 40 mA / max. 90 mA	typ. 55 mA / max. 125 mA typ. 80 mA / max. 150 mA			
Permissible load	d / channel	max. ±20 mA	max. ±30 mA			
Pulse frequency		max. 300 kHz	max. 300 kHz			
Signal level	high Iow	min. 2.5 V max. 0.5 V	min. U _B - 2.5 V max. 2.0 V			
Rising edge time	e t _r	max. 200 ns	max. 1 μs			
Falling edge tim	e t _f	max. 200 ns	max. 1 μs			
Short circuit pro outputs ²⁾	of	yes ³⁾	yes			
Reverse connec		no; 10 30 V: yes	yes			
CE compliant ac	c. to	EN 61000-6-1, EN 61000-6-4 and EN 61000-6-3				

Dimensions

1 Torque stop slot, Recommendation: Cylindrical pin DIN7, ø 4 mm

2 3 x M3, 5 [0.2] deep

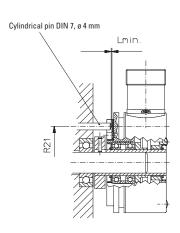


Mounting advice:

- 1) The flanges and shafts of the encoder and drive should not both be rigidly coupled together at the same time.
- 2) When mounting a hollow shaft encoder, we recommend using a torque stop pin that fits into the torque stop slot or a stator coupling.
- 3) When mounting the encoder ensure the dimension Lmin. is greater than the axial maximum play of the drive. Otherwise there is a danger that the device could mechanically seize up.
- For continuous operation 3000 min⁻¹, ventilated
 If supply voltage correctly applied.
- 3) Only one channel allowed to be shorted-out:

 If U_B = 5 V, short-circuit to channel, 0 V, or +U_B is permitted.

 If U_B = 5 30 V, short-circuit to channel or 0 V is permitted.



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