

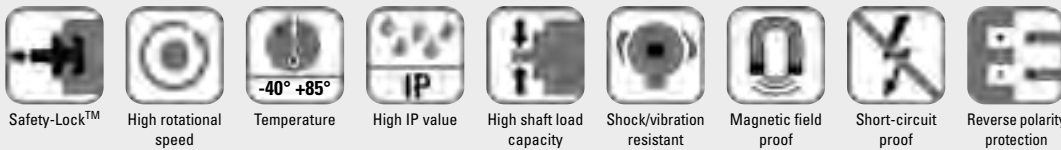
Rotary Measuring Technology

Incremental Encoder Sendix 5006 Stainless-steel



The Sendix incremental 5006 in stainless-steel offers optimum material resistance and thus virtually unlimited durability.

The high-grade Viton seals, the IP 67 level of protection as well as the wide temperature range additionally ensure impermeability and ruggedness.



Durable and sealed

- Protection rating IP67
- Rugged stainless-steel housing
- Viton seals
- Wide temperature range -40 ... +85°C
- Sturdy bearing construction in Safety Lock™ Design for resistance against vibration and installation errors

Flexible in use

- Compatible with all common US and European standards,
- Supply voltage 5 ... 30 V DC, various interface options, max. 5000 PPR
- Compact dimensions: Outer diameter 50 mm, installation depth max. 47 mm

Order code

8.5006 . XXXX . XXXX
Type ① ② ③ ④ ⑤



① Flange

- 7 = Clamping flange, metric \varnothing 58 mm
- A = Synchro flange, metric \varnothing 58 mm
- C = Square flange 63,5 mm [2,5 inch]

② Shaft (\varnothing x L)

- 1 = \varnothing 6 mm x 10 mm
- 3 = \varnothing 10 mm x 20 mm
- 8 = \varnothing 3/8" x 7/8"

③ Output circuit / supply voltage

- 2 = Push-pull (7272 with inversion) / 5 ... 30 V
- 4 = RS 422 (with inversion) / 5 V
- 5 = Push-pull with inversion / 10 ... 30 V

④ Type of connection

- 4 = 8-pin M12 connector radial

⑤ Pulse rate

- 360, 512, 1000, 1024, 2000, 2048, 2500, 3600, 4096, 5000 (e.g. 100 pulses => 0100) Other pulse rates on request

Preferred types are underlined

Note:

Encoder will be delivered without mating connector.
 Corresponding mating connector: : Type 05.CMB-8181-0

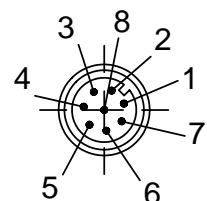
Mechanical characteristics

Speed ¹⁾	max. 6000 min ⁻¹
Rotor moment of inertia (shaft version)	ca. 1,8 x 10 ⁻⁶ kgm ²
Starting torque	< 0,05 Nm
Weight	ca. 0,4 kg
Load capacity of shaft:	radial 80 N axial 40 N
Protection acc. to EN 60 529	IP 67
EX approval for hazardous areas	optional Zone 2 and 22
Working temperature	-40 °C ... +85 °C
Materials	housing, flange, shaft stainless steel, 1.4305 connector stainless steel, Seals Viton
Shock resistance acc. to DIN-IEC 68-2-27	2500 m/s ² , 6 ms
Vibration resistance acc. to DIN-IEC 68-2-6	100 m/s ² , 10...2000 Hz

Terminal assignment

Signal:	0 V GND	+U _B	A	A	B	B	0	0	shield
M12 eurofast, 8-pin connector, Pin	1	2	3	4	5	6	7	8	¹⁾

8-pin M12 connector



Matching mating connector: 05.CMB-8181-0

Suitable accessories:

- further cables and connectors, also pre-assembled, can be found in the Connection Technology section.
- further mounting attachments and stator couplings can be found in the Accessories section.

1) For continuous operation max. 3000 min⁻¹

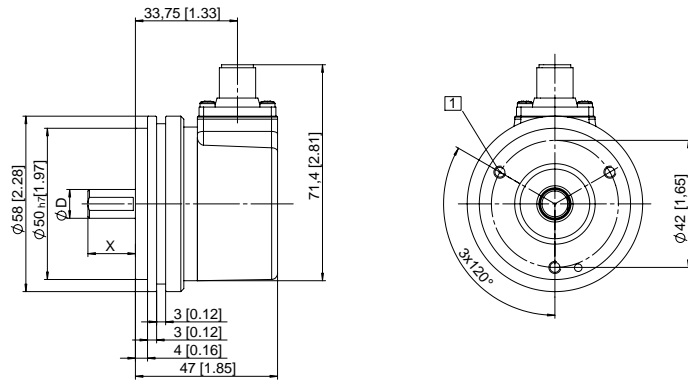
Incremental Encoder	Sendix	5006 Stainless-steel
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Electrical characteristics

Output circuit:	RS 422 (TTL-compatible)	Push-Pull	Push-Pull (7272)
Supply voltage	5 V ±5%	10 ... 30 V DC	5 ... 30 V DC
Current consumption	no load with inverted signal	typ. 40 mA max. 90 mA	typ. 50 mA max. 100 mA
Permissible load/channel		max. ±20 mA	max. ±20 mA
Pulse frequency		max. 300 kHz	max. 300 kHz
Signal level	high low	min. 2,5 V max. 0,5 V	min. UB-2,0 V max. 0,5 V
Rise time tr		max. 200 ns	max. 1 µs
Fall time tf		max. 200 ns	max. 1 µs
Short circuit proof outputs ¹⁾	yes ²⁾	yes	yes
Reverse connection of the supply voltage	no	yes	no
UL-certified	File 224618		
CE compliant acc. to	EN 61000-6-2, EN 61000-6-4 and EN 61000-6-3		
RoHS compliant acc. to	EG-guideline 2002/95/EG		

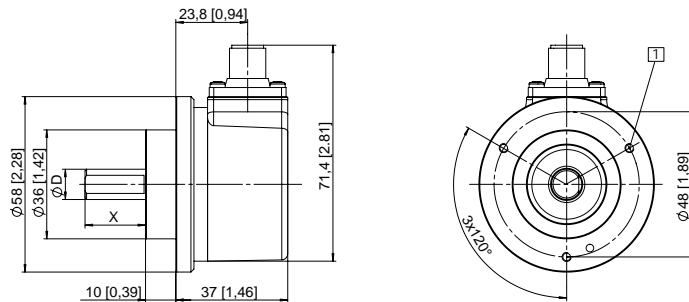
Dimensions

Synchro flange, ø 58 mm, (Flange type A)



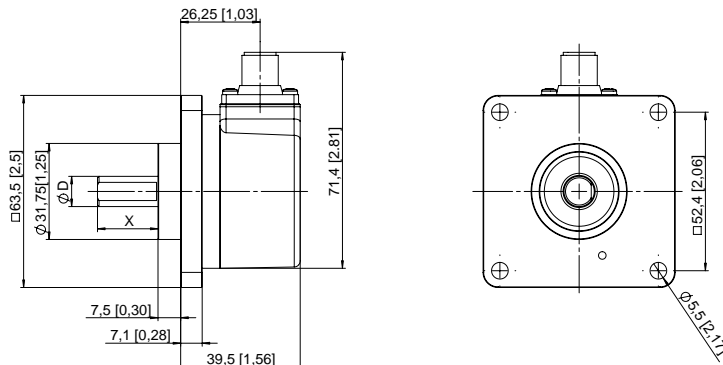
1) 3 x M3, 6 [0.24] deep

Clamping flange, ø 58 mm (Flange type 7)



1) M3, 5,5 [0.21] deep

Square flange, □ 63,5 mm [2.5 inch] (Flange type C)



1) If supply voltage correctly applied

2) Only one channel allowed to be shorted-out:

at UB = 5 V short circuit to channel, 0 V, or +UB is permitted.
at UB = 5 ... 30 V short circuit to channel or 0 V is permitted.