

RSF 58 Co - CANopen

Quality - made in Germany

Technical data Code

Max. resolution

Binary

29 Bit =

Sinaleturn 10 Bit = 1.024 S/T 13 Bit = 8.192 S/T Multiturn 26 Bit = 1.024 S/T x 65.536

8.192 S/T x 65.536

Electrical data

Operating voltage Current consumption

Code change frequency Accuracy

Mechanical data Speed (mechanical) Speed (electrical) Start-up torque Shaft loading

Moment of inertia

Material

Housing Flange Bus cover Weight

Ambient conditions Vibration

Shock

Operating temperature - 20...+ 85° C Storage temperature Humidity

Emitted interference

Protection type

UB = 10...30 VDC Max. 100 mA (w/o load), at 24 VDC 800 kHz 0,025 ° with 400 kHz 0,05° with 800 kHz

 \leq 10.000 min ⁻¹ \leq 6.000 min ⁻¹ < 0.015 Nm < 40 N radial. < 20 N axial 2 x 10⁻⁶ kgm²

Steel Aluminium Aluminium approx. 600 g

DIN EN 60068-2-6 \leq 200 ms⁻² (16...2000 Hz) DIN EN 600068-2-27 \leq 2.000 ms², 6 ms

- 20...+ 85° C Max. relative humidity 95 % no-condensing IP 65 Interference resistance DIN EN 61000-6-2

DIN EN 61000-6-4

Absolute multi-turn encoder

- shockproof up to 200 g
- Parameterizable operating modes
- Parameterizable preset value
- Parameterizable scaling
- Singleturn resolution up to 13 Bit
- Multiturn resolution up to 29 Bit

	CANopen features Bus protocol	CANopen		
	Device profile	CANopen - CiA DSP 406		
	CANopen features	Device Class 2		
T	Operating modes (with SDO progr.)	Polling Mode (asynch, via SDO) Cyclic Mode (asynch-cyclic) The encoder cyclically sends the current process actual value without a request by a master. The cycle time can be parameterized for values between 1 and 65535 ms. Synch Mode (synch-cyclic) The encoder sends the current actual process value after receiving a synch telegram sent by a master. The synch counter in the encoder can be parameterized so that the position value is not sent until after a defined number of synch telegrams. Acyclic Mode (synch-acyclic)		
	Preset value	With the "Preset" parameter the encoder can be set to a desired actual process value that corresponds to the defined axis position of the system. The offset value between the encoder zero point and the mechanical zero point of the system is saved in the encoder.		
	Rotating direction	With the operating parameter the rotating direction in which the output code is to increase or decrease can be parameterized.		
	Scaling	The steps per revolution and the total revoltion can be parameterized.		

Diagnos	ic
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Default setting

The following is monitored during operation:

- Consistency test of code
 Exceeding of the permissible signal frequency
- LED failure, aging
- Receiver failure
- Code disk, glass breakage
- Power supply of electronic gear unit

10 kbit/s, node number 0

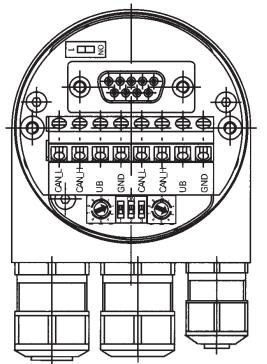
Contact Description

- CAN_L Negative serial data line, Pair 1 and Pair 2
- CAN_H Positive serial data line, Pair 1 and Pair 2
- UB Supply voltage10...30 VDC
- GND Ground contact for UB

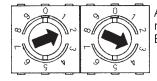
(Terminals with the same designation are internally interconnected)

Option additional incremental tracks A + B, 5pol. plug, 10...30 VDC, 30 mA.

View inside bus cover

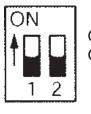


Settings of user address



Address can be set with rotary switch. Example: User address 23

Settings of terminating resistors



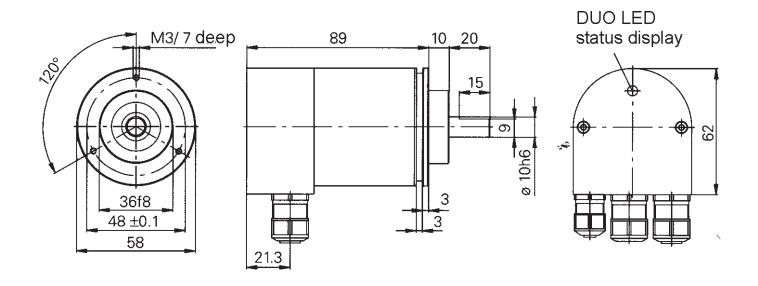
ON = Last user OFF = User X

Type key of Encoder

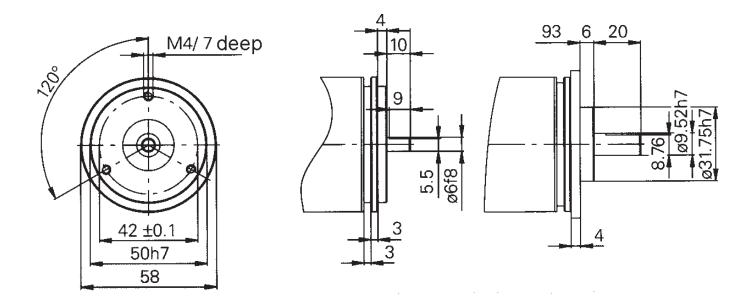
Encoder type	Steps/T - Turns	Voltage	Code	Flange	Output	Option
RSF 58 Co	10 = 10 Bit 1.024 S/T x 1T	3 = 10 - 30 VDC	B = Binary	W1 = 10 mm shaft clamping flange	DS = Bus cover sideways movement out	F1 = 2 x 1.024 S/T incremental tracks
RSF 58 Co	26 = 26 Bit 1.024 S/T x 65.536 T			V6 = 6 mm shaft servo flange		F2 = 2 x 2.048 S/T incremental tracks
RSF 58 Co	13 = 13 Bit 8.192 S/T x 1T					
RSF 58 Co	29 = 29 Bit 8.192 S/T x 65.536 T					
RSF 58 Co		3	В		DS	

Dimension and cutout RSF 58 CANopen

10 mm shaft, clamping flange



Optional: 6 mm shaft, servo flange



For your notes: