

Quality - made in Germany



RSF 59 C - CAN

Absolute multi-turn encoder

- shockproof up to 200 g
- Parameterizable operating modes
- Parameterizable preset value
- Parameterizable scaling
- Singleturn resolution up to 18 Bit
- Multiturn resolution up to 31 Bit

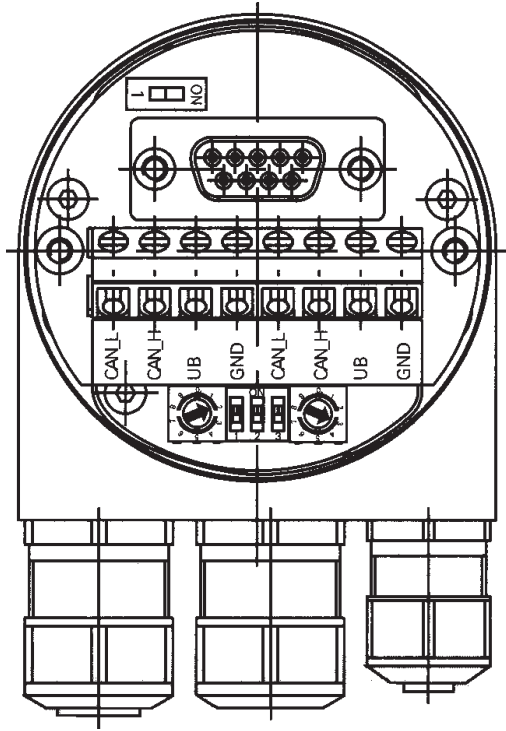
Technical data

Code	Binary
Max. resolution	Singleturn 18 Bit = 262.144 S/T Multiturn 31 Bit = 262.144 S/T x 8.192 U
Electrical data	
Operating voltage	UB = 10...30 VDC
Current consumption	Max. 120 mA (w/o load), at 24 VDC
Code change frequency	26 MHz
Accuracy	± 0,01°
Mechanical data	
Speed (mechanical)	≤ 10.000 min ⁻¹
Speed (electrical)	≤ 6.000 min ⁻¹
Start-up torque	< 0,015 Nm
Shaft loading	< 40 N radial, < 20 N axial
Moment of inertia	2 x 10 ⁻⁶ kgm ²
Material	Steel
Flange	Aluminium
Bus cover	Aluminium
Weight	approx.. 600 g
Ambient conditions	
Vibration	DIN EN 60068-2-6 ≤ 200 ms ⁻² (16...2000 Hz)
Shock	DIN EN 60068-2-27 ≤ 2.000 ms ² , 6 ms
Operating temperature	- 20...+ 85° C
Storage temperature	- 20...+ 85° C
Humidity	Max. relative humidity 95 % no-condensing
Protection type	IP 65
Interference resistance	DIN EN 61000-6-2
Emitted interference	DIN EN 61000-6-4

CAN features

Bus protocol	CAN
Operating modes	<p>Polling Mode (asynch) The encoder sends data on request by another subscriber.</p> <p>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 65'535 ms.</p>
Preset value	<p>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.</p>
Rotating direction	<p>With the operating parameter the rotating direction in which the output code is to increase or decrease can be parameterized.</p>
Scaling	<p>The steps per revolution and the total revolution can be parameterized.</p>
Diagnosis	<p>The following is monitored during operation:</p> <ul style="list-style-type: none"> - 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
Default setting	10 kbit/s, node number 0

View inside bus cover

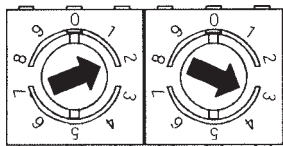


Contact Description

- CAN_L Negative serial data line, Pair 1 and Pair 2
- CAN_H Positive serial data line, Pair 1 and Pair 2
- UB Supply voltage 10...30 VDC
- GND Ground contact for UB

(Terminals with the same designation are internally interconnected)

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
RSF 59 C	18 = 18 Bit 264.144 S/T x 1 T	3 = 10 - 30 VDC	B = Binary	W1 = 10 mm shaft clamping flange	DS = Bus cover sideways movement out
RSF 59 C	31 = 26 Bit 262.144 ST x 8.192T				
RSF 59 C	—	3	B	W1	DS

Dimension and cutout RSF 59 C

10 mm shaft, clamping flange

