



1: M4 5 mm deep



Made in Germany

Product characteristics

Singleturn solid shaft encoder

CANopen interface

Terminals

Synchro-flange

8192 steps

Electrical data

Operating voltage	[V]	9...36 DC
Current consumption	[mA]	< 250
Code		binary
Reverse polarity protection		yes
Short-circuit protection		yes

Outputs

Output function	CANopen interface
-----------------	-------------------

Measuring / setting range

Addressing	adjustable via DIP switch or software
Resolution	13 bits

Accuracy / deviations

Accuracy	± 1 LSB
----------	-------------

Interfaces

Programming interface	CANopen
Profiles	DSP - 406
Programming options	CAN parameters, scaling, preset, baud rate, direction of rotation, address

Mechanical data

Max. permissible rpm / mech. [1/min]	6000
Starting torque [Ncm]	< 1 (20 °C)
Max. shaft load (at the shaft end) [N]	axial 10; radial 20
Shaft, material [mm]	$\varnothing 6$, steel (1.4104)
Vibration resistance	10 g (55...2000 Hz)
Shock resistance	100 g (6 ms)
Housing materials	aluminium

**RN7003**

RNS0013-C24/E

Encoders

Weight	[kg]	0.256
Environment		
Ambient temperature	[°C]	-40...70
Protection		IP 66; IP 67 (housing); IP 66 (shaft)
Tests / approvals		
MTTF	[Years]	46
Electrical connection		
Connection		Terminal strip in the terminal chamber
Max. cable length	[m]	100 (500 kb/s); 25 (1 Mb/s)
Remarks		
Pack quantity	[piece]	1