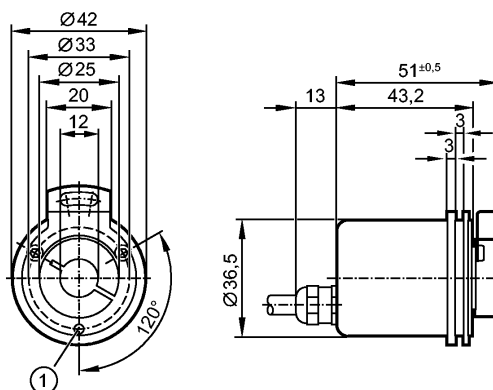




1: M3 x 6



Product characteristics

Multiturn hollow shaft encoder

SSI data interface

Cable

SSI data interface

8192 revolutions

Resolution 4096

Electrical data

Operating voltage [V]

4.5...30 DC

Current consumption [mA]

< 30

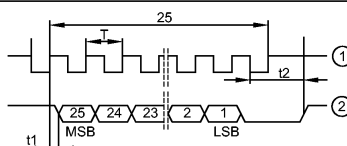
Code

Gray code; increasing code values when turned clockwise (seen on the shaft)

Code signal

Clock input: TTL compatible signals,
clock and clock (inv.) from driver to RS 422
Data output: synchronous serial,
TTL compatible signals data and data (inv.)

Pulse diagram



1 clock
2 data

Inputs

Inputs

reversal of direction of rotation, reset to zero

Outputs

Output function

SSI data interface

Measuring / setting range

Resolution

25 bits

Mechanical data

Max. permissible rpm / mech. [1/min]

12000

Starting torque [Ncm]

< 3 (25 °C)

Max. shaft load (at the shaft end) [N]

axial 40; radial 110

Shaft, material [mm]

hollow shaft open to one side Ø 12, steel

Vibration resistance

30 g (10...1000 Hz)

Shock resistance

< 300 g (6 ms)

Housing materials

flange: aluminium; housing: steel powder coated

Weight [kg]

0.398

Environment

RM8003 - Multiturn hollow shaft encoder - eclass: 27270590 / 27-27-05-90

Max. relative air humidity	[%]	98
Ambient temperature	[°C]	-40...85, -40 °C for firmly laid cable / -30 °C for flexibly laid cable
Protection		IP 65; IP 65 (housing); IP 64 (shaft)
Electrical connection		
Connection		PUR cable / 2 m; axial
Max. cable length	[m]	100
Wiring		
white: sensor 0 V		
brown: sensor Ub		
green: clock		
yellow: clock (inv.)		
grey: data		
pink: data (inv.)		
blue: reset to zero		
red: reversal of direction of rotation		
Screen: housing		
Remarks		
Remarks		Wires/pins not connected (n.c.) must not be used!
Pack quantity	[piece]	1