



## **ROTARY ENCODER RM3001**

URL:<https://www.sxplc.com/rotary-encoder-rm3001>

### **Product data sheet**

Product characteristics

Resolution

8192 steps; 4096 revolutions; 25 bit

Communication interface

PROFIBUS DP

Shaft design

solid shaft

Shaft diameter [mm]

6

Application

Function principle

absolute

Revolution type

multiturn

Electrical data

Operating voltage [V]

10...30 DC

Current consumption [mA]

< 150

Max. revolution electrical [U/min]

6000

Outputs

Code

Dual-code

Measuring/setting range

Resolution

8192 steps; 4096 revolutions; 25 bit

Software / programming

Parameter setting options

counting direction of the code values; Resolution; Zero point; limit switches HI and LO; motion indicator; separation multiturn/singleturn

Diagnostic functions

alarms; warnings; status; serial number of the encoder

Addressing

address selector switch; 0...126

Interfaces

Communication interface

PROFIBUS DP

PROFIBUS DP

Transmission standard

DPV0 Class 2 (EN50170)

Transmission rate

...12 Mbit/s

Operating conditions

Ambient temperature [°C]

-40...70

Protection

IP 66; (on the housing: IP 67; on the shaft: IP 66)

Tests / approvals

Shock resistance

100 g (6 ms)

Vibration resistance

10 g (55...2000 Hz)

Mechanical data

Weight [g]

652

Dimensions [mm]

Ø 58 / L = 90.5

Material

aluminum

Max. revolution, mechanical [U/min]

12000

Max. starting torque [Nm]

1

Reference temperature torque [°C]

20

Shaft design

solid shaft

Shaft diameter [mm]

6

Shaft material

steel (1.4104)

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

10

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

20

Fixing flange

Synchro-flange

Electrical connection

Terminal strip in the terminal chamber: ; Maximum cable length: 100 m; 400 m (1.5 Mb/s)

