

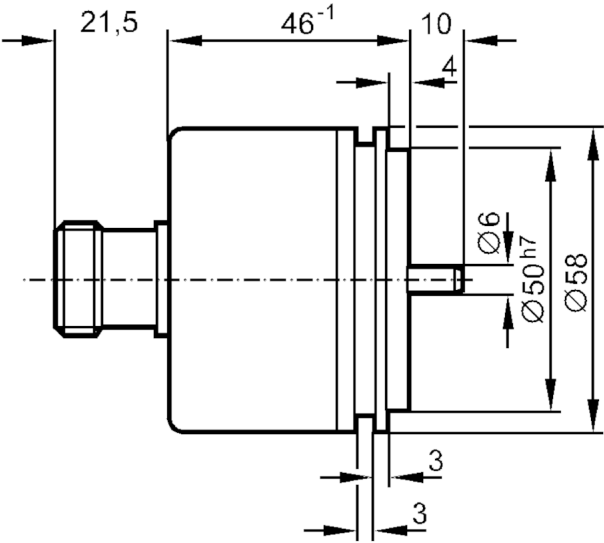
RU1103



Incremental encoder with solid shaft

RU-5000-I05/J

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- 1 reference mark
- 2 M4 Depth 5 mm



Product characteristics		
Resolution		5000 resolution
Shaft design		solid shaft
Shaft diameter	[mm]	6
Electrical data		
Operating voltage tolerance	[%]	10
Operating voltage	[V]	5 DC
Current consumption	[mA]	150
Outputs		
Electrical design		TTL
Max. current load per output	[mA]	20
Switching frequency	[kHz]	300
Phase difference A und B	[°]	90
Measuring/setting range		
Resolution		5000 resolution
Operating conditions		
Ambient temperature	[°C]	-30...100
Storage temperature	[°C]	-30...100
Max. relative air humidity	[%]	98
Protection		IP 64



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Tests / approvals

Shock resistance	100 g (6 ms)
Vibration resistance	15 g (55...2000 Hz)

Mechanical data

Dimensions [mm]	Ø 58 / L = 77.5
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

Connector: 1 x M23 (ifm 1001.4), axial



1	B inverted
2	L+ sensor
3	0 index
4	0 index inverted
5	A
6	A inverted
7	error inverted
8	B
9	n.c.
10	0V
11	0V sensor
12	L+
screen	housing

Diagrams and graphs

Pulse diagram

Direction of rotation clockwise (looking at the shaft)