

Incremental encoder with solid shaft

RU-1024-I05/N1

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- | | |
|---|----------------|
| 1 | reference mark |
| 2 | M4 Depth 5 mm |



Product characteristics

Resolution	1024 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	1024 resolution
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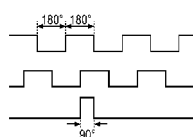
Operating conditions

Ambient temperature	[°C]	-20...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		10 g (55...2000 Hz)
Mechanical data		
Dimensions	[mm]	Ø 58 / L = 46
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		
Cable: 1 m, PUR; radial		
Connector: 1 x (ifm 1001.1)		
brown	A	
green	A inverted	
grey	B	
pink	B inverted	
red	0 index	
black	0 index inverted	
blue	L+ sensor	
white	0V sensor	
brown/green	L+ (Up)	
white/green	0V (Un)	
lilac	error inverted	
screen	housing	
Diagrams and graphs		
Pulse diagram	 Direction of rotation clockwise (looking at the shaft)	