

RU1024

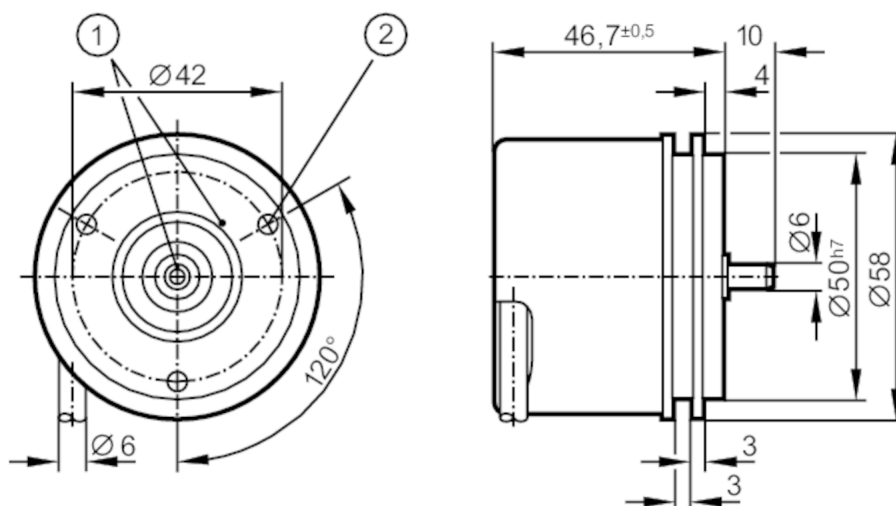
Incremental encoder with solid shaft

RU-1000-I05/L2



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/RUP500 + E12402



- 1 reference mark
- 2 M4 Depth 5 mm



Application

Function principle	incremental
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Electrical data

Operating voltage tolerance	[%]	10
Operating voltage	[V]	5 DC
Current consumption	[mA]	< 120

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	1000 resolution
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Operating conditions

Ambient temperature	[°C]	-40...100
Note on ambient temperature	for firmly laid cable: -40 °C	
Max. relative air humidity	[%]	98
Protection	IP 64; (on the housing: IP 67; on the shaft: IP 64)	

Tests / approvals

Shock resistance		200 g
Vibration resistance		30 g
MTTF	[years]	190



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Mechanical data		
Weight	[g]	494.8
Dimensions	[mm]	Ø 58 / L = 46.7
Materials		aluminium
Max. revolution, mechanical	[U/min]	16000
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

Remarks	
Notes	discontinued article

Electrical connection	
Cable: 2 m, PUR; Maximum cable length: 100 m; radial, can also be used axially	

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	failure inverted
screen	housing

Diagrams and graphs	
Pulse diagram	Output A Output B 0 index

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