RU1085

Incremental encoder with solid shaft

RU-0500-I05/K

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Alternative articles: RUP500

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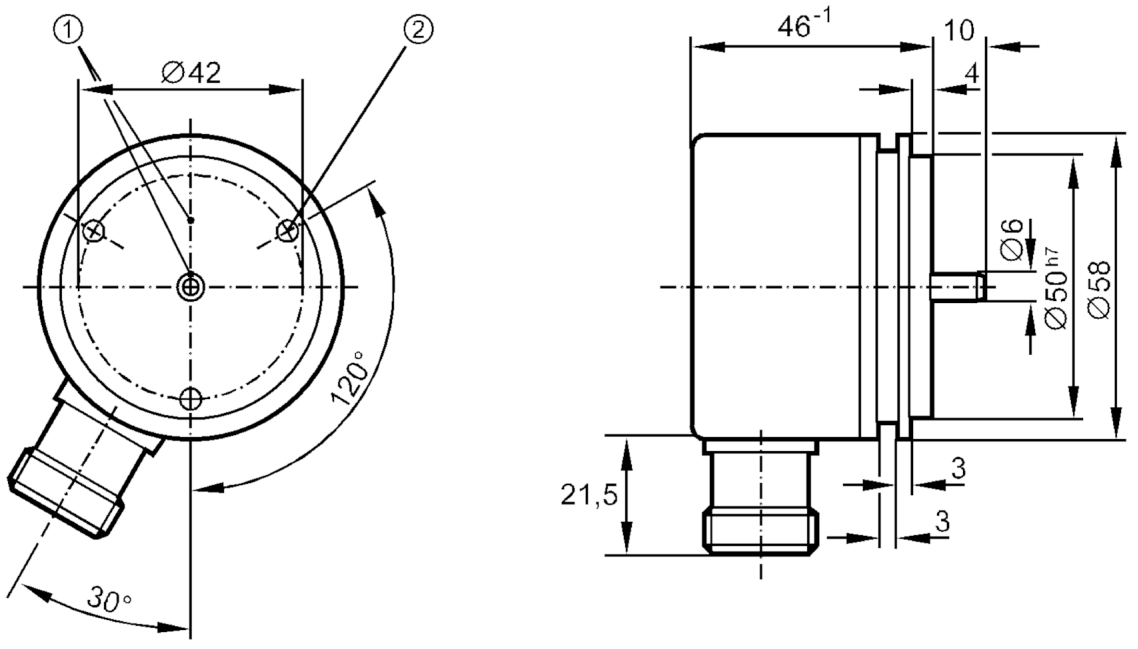

1 reference mark
2 M4 Depth 5 mm

Product characteristics		
Resolution		500 resolution
Shaft design		solid shaft
Shaft diameter	[mm]	6
Application		
Function principle		incremental
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		500 resolution

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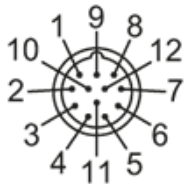
Operating conditions		
Ambient temperature	[°C]	-30...100
Storage temperature	[°C]	-30...100
Max. relative air humidity	[%]	98
Protection		IP 64

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

Mechanical data		
Weight	[g]	425
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), radial



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

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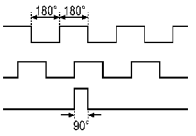
Diagrams and graphs

Pulse diagram



Direction of rotation clockwise (looking at the shaft)