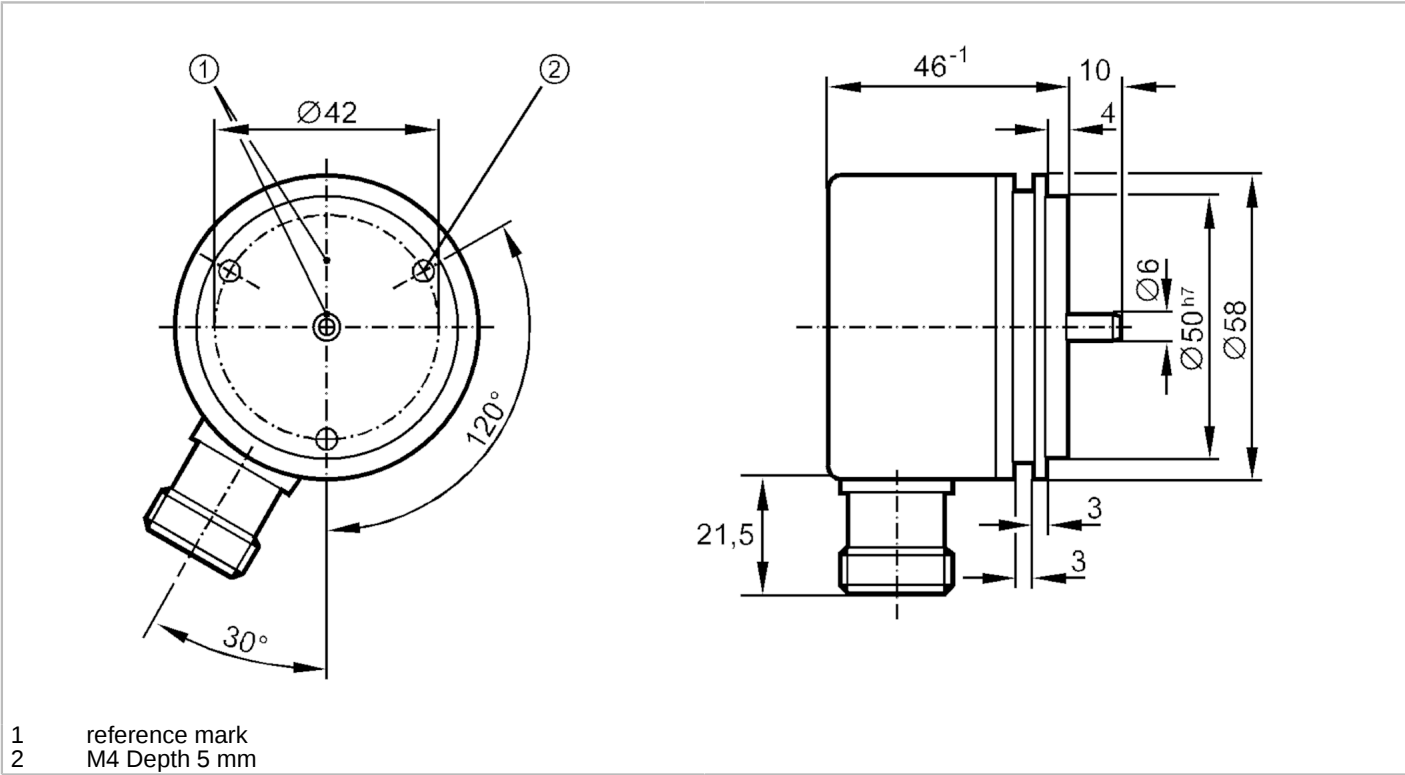# RU1113

Incremental encoder with solid shaft

RU-2500-I05/K

Article no longer available - archive entry

Alternative articles: RUP500
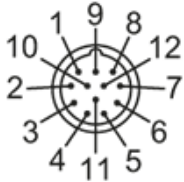When selecting an alternative article and accessories please note that technical data may differ!

1   reference mark
2   M4 Depth 5 mm

Product characteristics	
Resolution	2500 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	2500 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]	421.2
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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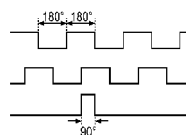
Diagrams and graphs	
Pulse diagram	
	Direction of rotation clockwise (looking at the shaft)