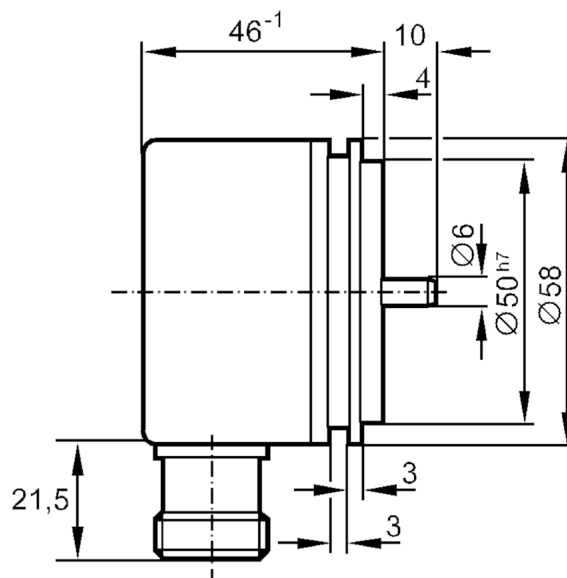
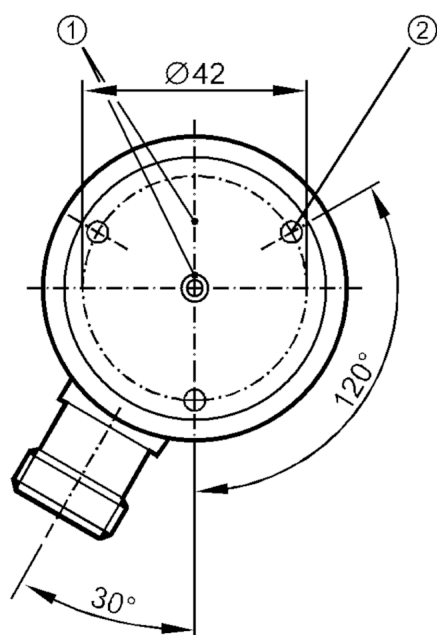




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- 1 reference mark
- 2 M4 Depth 5 mm



Application

Function principle	incremental
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Electrical data

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

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



Incremental encoder with solid shaft

RU-5000-I05/K

Tests / approvals		
Shock resistance		100 g (6 ms)
Vibration resistance		15 g (55...2000 Hz)
MTTF	[years]	190

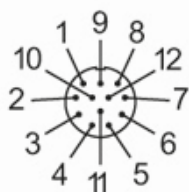
Mechanical data		
Weight	[g]	420
Materials		aluminium
Max. revolution, mechanical	[U/min]	12000
Max. starting torque	[Nm]	1
Reference temperature torque	[°C]	20
Shaft design		solid shaft
Shaft diameter	[mm]	6
Shaft material		steel (1.4104)
Max. shaft load axial (at the shaft end)	[N]	10
Max. shaft load radial (at the shaft end)	[N]	20
Fixing flange		synchro-flange

Remarks	
Notes	discontinued article

Electrical connection

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

Connector: 1 x M23 (ifm 1001.4), radial



RU1078

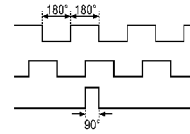
Incremental encoder with solid shaft

RU-5000-I05/K



Diagrams and graphs

Pulse diagram



Output A

Output B

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