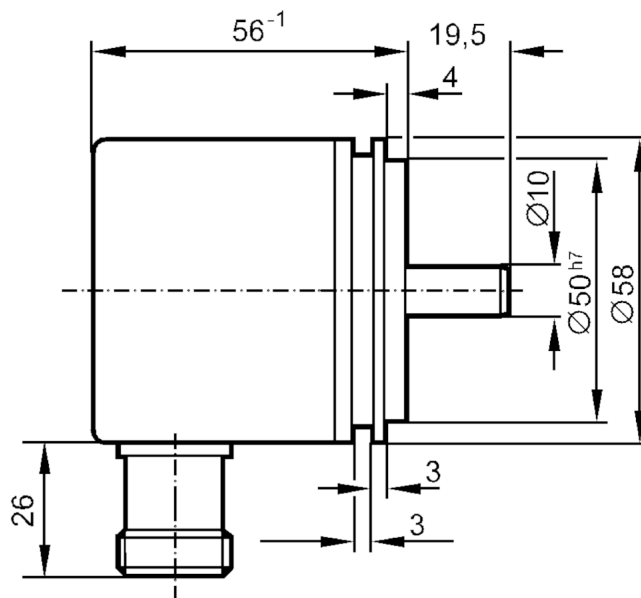
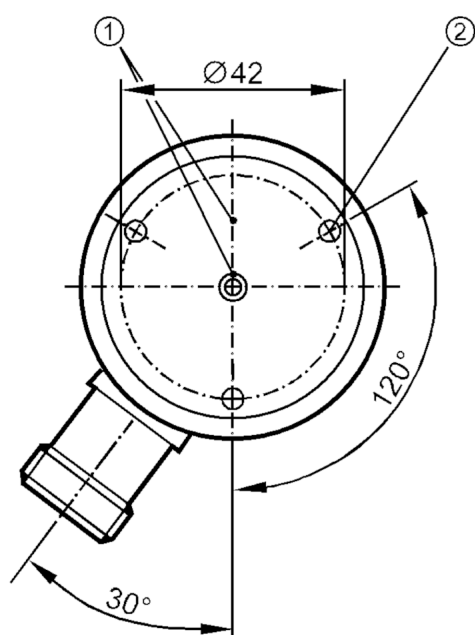




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- | | |
|---|----------------|
| 1 | reference mark |
| 2 | M4 Depth 5 mm |



Application

Function principle	incremental
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Electrical data

Operating voltage	[V]	10...30 DC
Current consumption	[mA]	150

Outputs

Electrical design	HTL
Max. current load per output [mA]	50
Switching frequency [kHz]	300
Type of short-circuit protection	< 60 s
Phase difference A und B [°]	90

Measuring/setting range

Resolution	6000 resolution
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Operating conditions

Ambient temperature	[°C]	-30...85
Storage temperature	[°C]	-30...100
Max. relative air humidity	[%]	98
Protection		IP 64



Incremental encoder with solid shaft

RU-6000-I24/K R

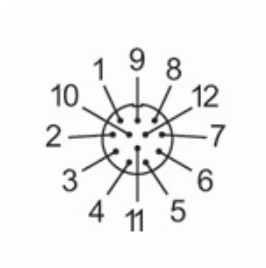
Tests / approvals		
Shock resistance		100 g (6 ms)
Vibration resistance		15 g (55...2000 Hz)
MTTF [years]		190
Mechanical data		
Weight [g]		423.2
Dimensions [mm]		Ø 58 / L = 75.5
Materials		aluminium
Max. revolution, mechanical [U/min]		12000
Max. starting torque [Nm]		1
Reference temperature torque [°C]		20
Shaft design		solid shaft
Shaft diameter [mm]		10
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	
screen	housing	
7	failure inverted	
8	B	
9	n.c.	
10	0V (Un)	
11	0V sensor	
12	L+	
Connector: 1 x M23 (ifm 1001.4), radial		

RU6113



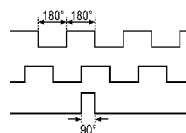
Incremental encoder with solid shaft

RU-6000-I24/K R



Diagrams and graphs

Pulse diagram



Output A

Output B

0 index

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