

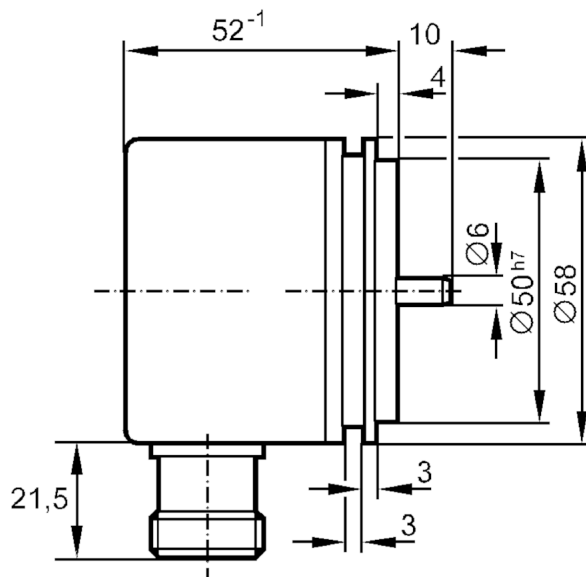
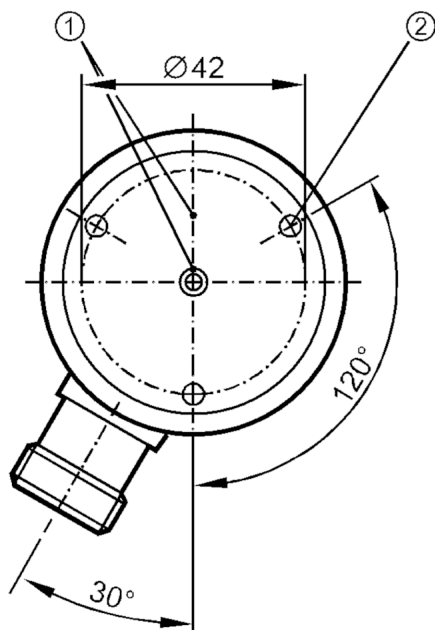
RU6087

Incremental encoder with solid shaft

RU-0500-I24/K



Status Archive



- 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	500 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



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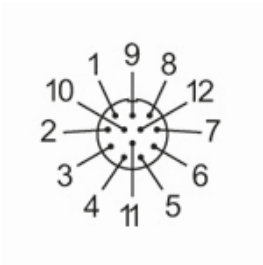
Tests / approvals		
Shock resistance		100 g (6 ms)
Vibration resistance		15 g (55...2000 Hz)
MTTF	[years]	190
Mechanical data		
Weight	[g]	420.4
Dimensions	[mm]	Ø 58 / L = 62
Materials		aluminium
Max. revolution, mechanical [U/min]		12000
Max. starting torque	[Nm]	1
Reference temperature torque	[°C]	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	
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		

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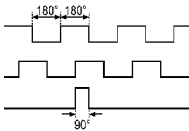
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Diagrams and graphs

Pulse diagram



Output A
Output B
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