

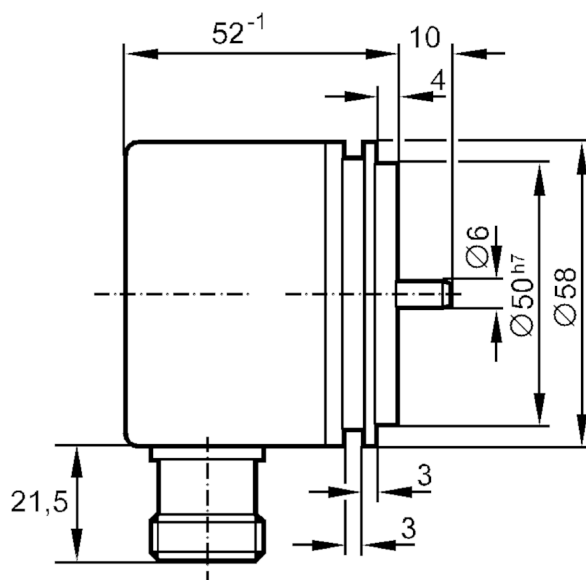
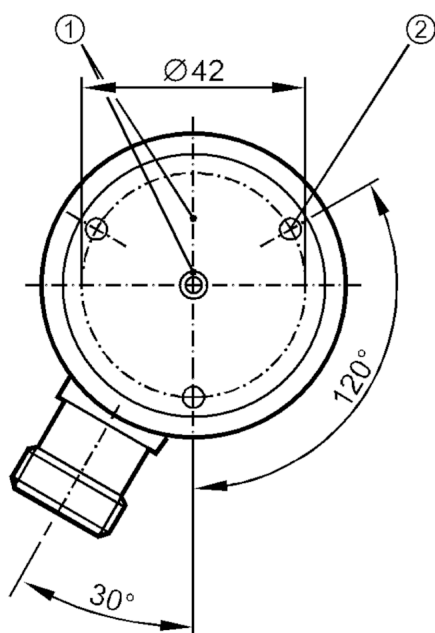
RU6168

Incremental encoder with solid shaft

RU-0048-I24/K



Status Archive



- 1 reference mark
- 2 M4 Depth 5 mm



Application		
Function principle		incremental
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		48 resolution
Operating conditions		
Ambient temperature	[°C]	-30...85
Storage temperature	[°C]	-30...100
Max. relative air humidity	[%]	98
Protection		IP 64



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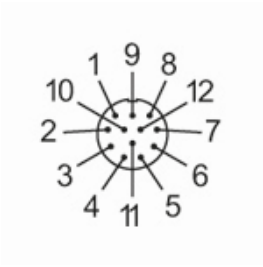
Tests / approvals		
Shock resistance		100 g (6 ms)
Vibration resistance		15 g (55...2000 Hz)
MTTF [years]		190
Mechanical data		
Weight [g]		417.8
Dimensions [mm]		Ø 58 / L = 62
Materials		aluminium
Max. revolution, mechanical [U/min]		12000
Max. starting torque [Nm]		1
Reference temperature torque [°C]		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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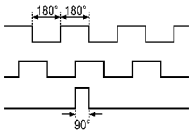
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Diagrams and graphs

Pulse diagram



Output A
Output B
0 index

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