RU1144

Incremental encoder with solid shaft

RU-1024-I05/S1

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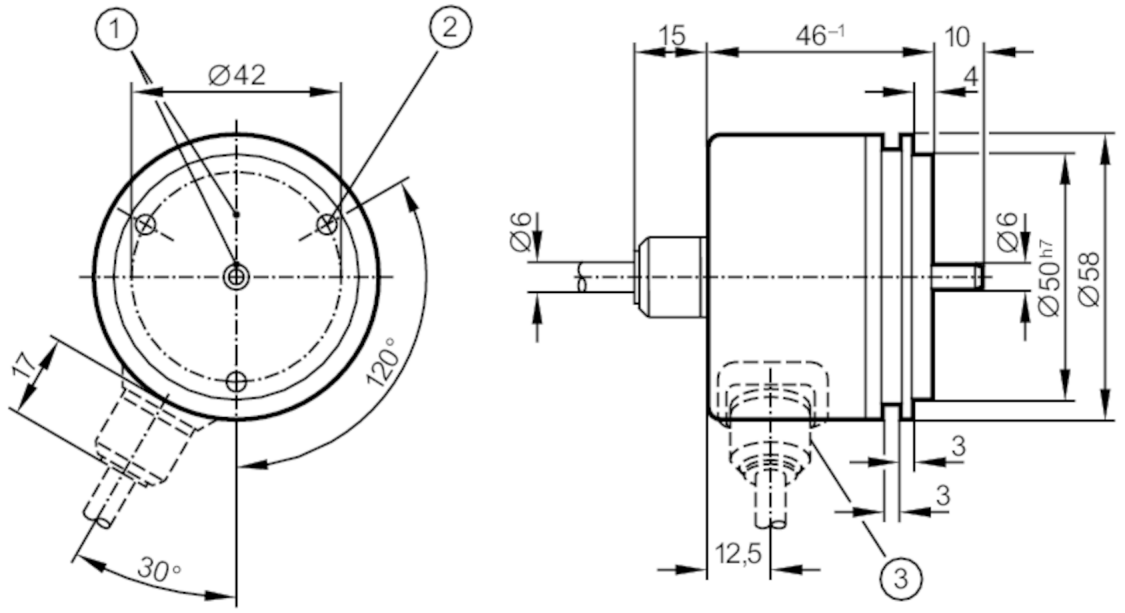

1 reference mark
2 M4 Depth 5 mm

Product characteristics		
Resolution		1024 resolution
Shaft design		solid shaft
Shaft diameter	[mm]	6
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		1024 resolution
Operating conditions		
Ambient temperature	[°C]	-30...100
Storage temperature	[°C]	-30...100
Max. relative air humidity	[%]	98
Protection		IP 64

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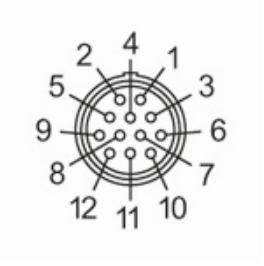
Tests / approvals		
Shock resistance		100 g (6 ms)
Vibration resistance		10 g (55...2000 Hz)

Mechanical data		
Dimensions	[mm]	Ø 58 / L = 46
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

Cable: 1 m, PUR; radial

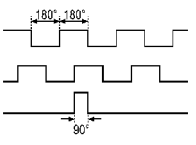
Connector: 1 x Bajonett (ifm 1000.2)



Pin 1	A
Pin 2	A inverted
Pin 3	B
Pin 4	B inverted
Pin 5	L+ sensor
Pin 6	0 index
Pin 7	0 index inverted
Pin 9	L+ (Up)
Pin 10	0V sensor
Pin 11	housing
Pin 12	0V (Un)

Diagrams and graphs

Pulse diagram



Direction of rotation clockwise (looking at the shaft)