RV1071

Incremental encoder with solid shaft

RV-1024-I05/SAE

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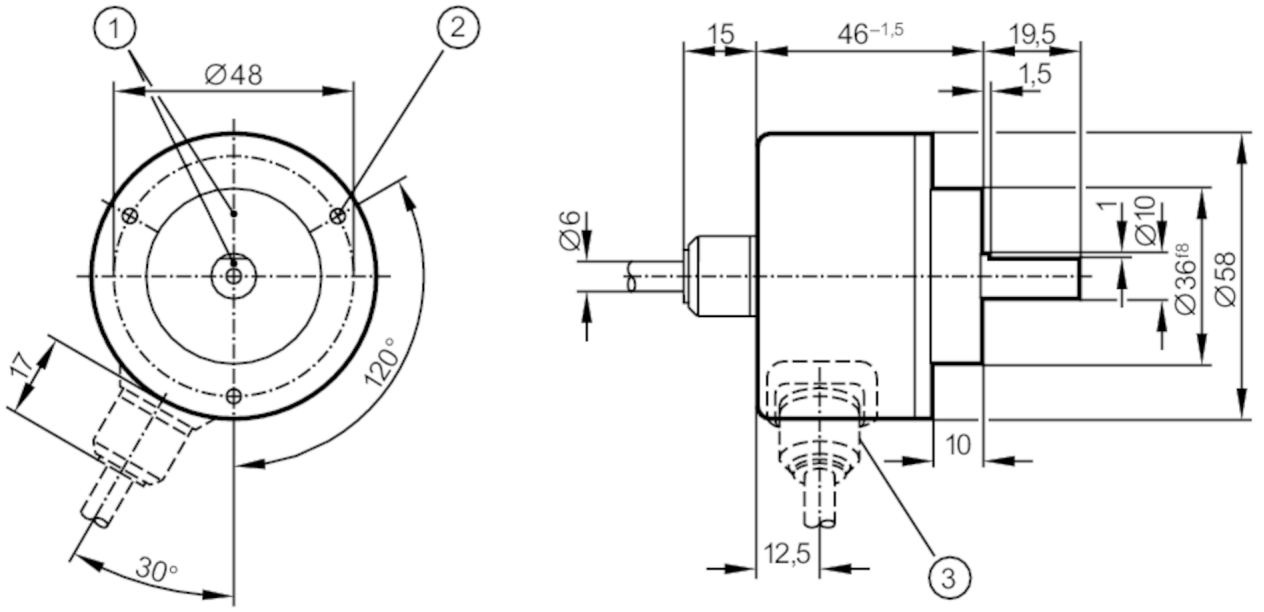

1 reference mark
2 M3 Depth 5 mm

Product characteristics		
Resolution		1024 resolution
Shaft design		solid shaft
Shaft diameter	[mm]	10
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 and B	[°]	90
Measuring/setting range		
Resolution		1024 resolution
Operating conditions		
Ambient temperature	[°C]	-20...70
Storage temperature	[°C]	-30...100
Protection		IP 66
Tests / approvals		
Shock resistance		100 g (6 ms)

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Vibration resistance		10 g (55...2000 Hz)

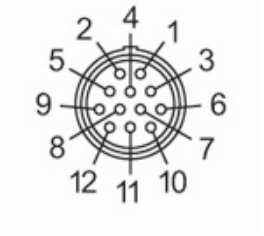
Mechanical data

Dimensions	[mm]	Ø 58 / L = 46
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

Electrical connection

Cable: 10 m, PUR; axial

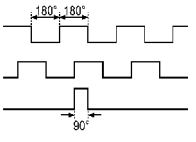
Connector: 1 x Bajonett (ifm 1000.2)



pin 1	A
pin 2	A inverted
pin 3	B
pin 4	B inverted
pin 5	+5V sensor
pin 6	0 index
pin 7	0 index inverted
pin 9	+5V (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)