

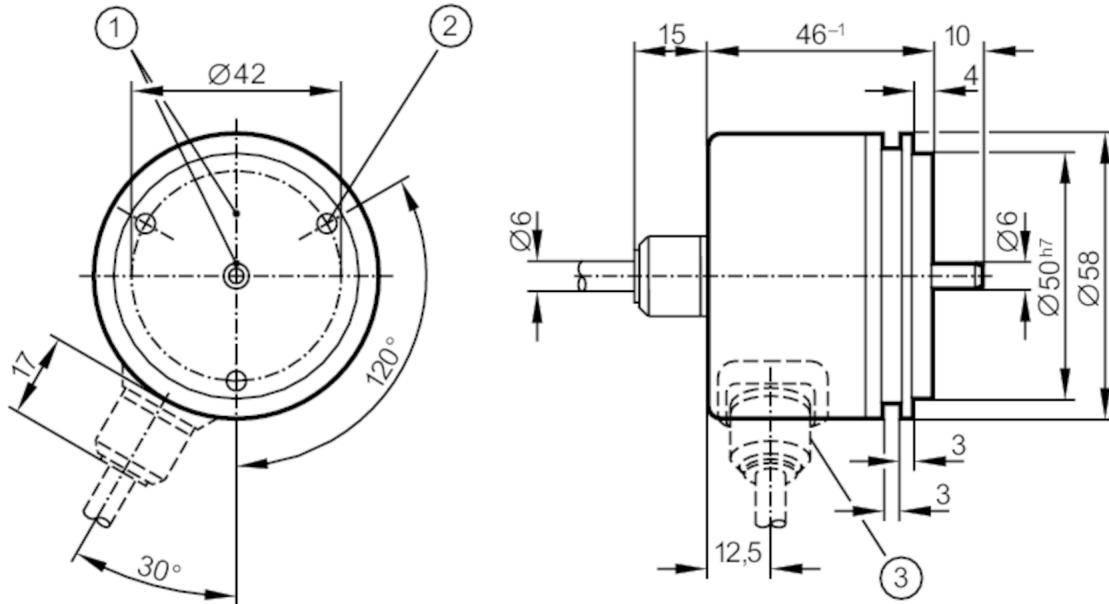
# RU1144



## Incremental encoder with solid shaft

RU-1024-I05/S1

Article no longer available - archive entry



- 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 and B [°]	90

### Measuring/setting range

Resolution	1024 resolution
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### 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)

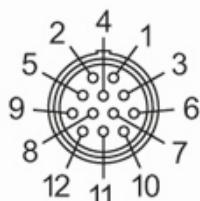
### Mechanical data

Dimensions	[mm]	Ø 58 / L = 46
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

### Electrical connection

Cable: 1 m, PUR; radial

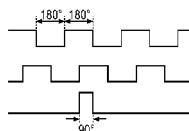
Connector: 1 x Bajonet (ifm 1000.2)



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)