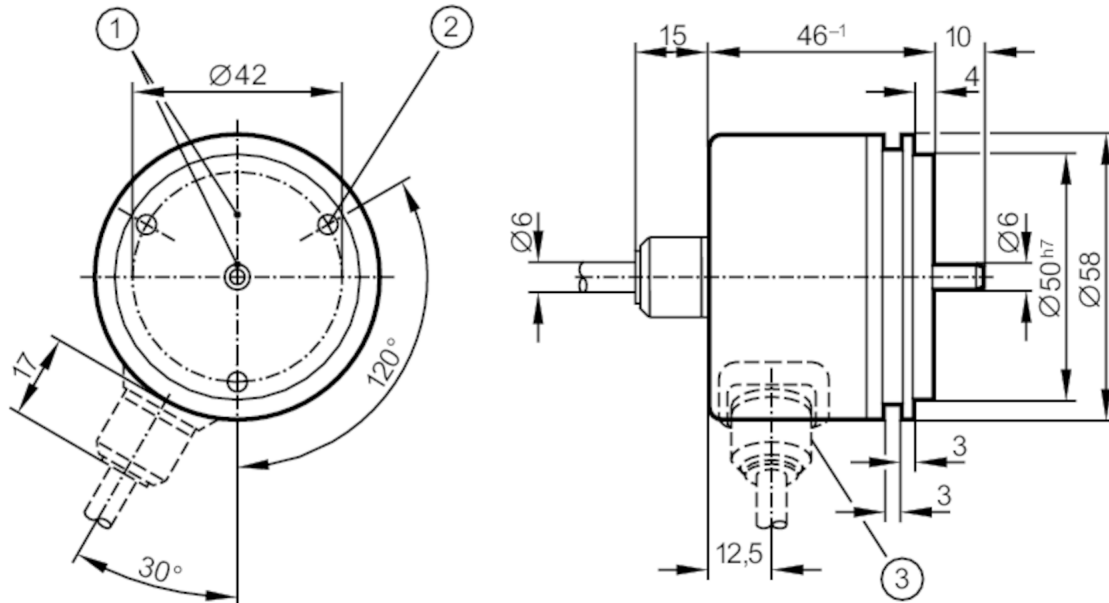




Incremental encoder with solid shaft

RU-5000-I05/R1

Article no longer available - archive entry



- | | |
|---|----------------|
| 1 | reference mark |
| 2 | M4 Depth 5 mm |



Product characteristics

Resolution	5000 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	5000 resolution
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Operating conditions

Ambient temperature	[°C]	-30...100
Max. relative air humidity	[%]	98
Protection		IP 64; (on the housing: IP 67; on the shaft: IP 64)

Tests / approvals

Shock resistance	100 g (6 ms)
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Vibration resistance	10 g (55...2000 Hz)
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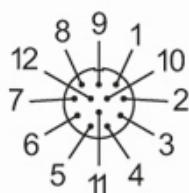
Mechanical data

Dimensions	[mm]	Ø 58 / L = 46
Materials		aluminium
Max. revolution, mechanical	[U/min]	12000
Max. starting torque	[Nm]	1
Reference temperature	[°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; axial

Connector: 1 x M23 (ifm 1001.1)



1	B inverted
2	L+ sensor
3	0 index
4	0 index inverted
5	A
6	A inverted
7	failure inverted
8	B
9	n.c.
10	0V
11	0V sensor
12	L+
screen	housing

Diagrams and graphs

Pulse diagram	direction of rotation clockwise (looking at the shaft)
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