

# RA1007

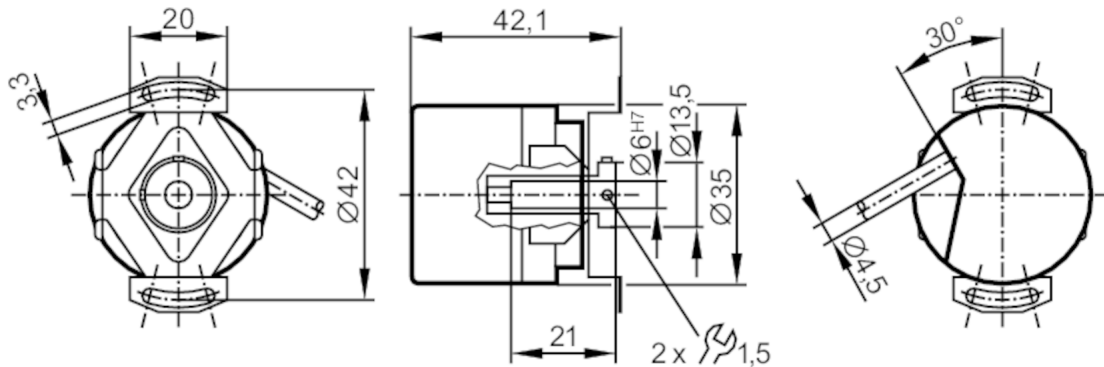


## Incremental encoder with hollow shaft

RA-0100-I05/N2

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### Product characteristics

Resolution	100 resolution
Shaft design	hollow shaft open to one side
Shaft diameter [mm]	6

### Application

Function principle	incremental
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### Electrical data

Operating voltage tolerance [%]	10
Operating voltage [V]	5 DC
Current consumption [mA]	120

### 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	100 resolution
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### Operating conditions

Ambient temperature [°C]	-40...100
Note on ambient temperature	for firmly laid cable
Max. relative air humidity [%]	75; (briefly: 95 %)
Protection	IP 64

### Tests / approvals

Shock resistance	100 g (6 ms)
Vibration resistance	10 g (55...2000 Hz)
MTTF [years]	114

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Mechanical data	
Weight [g]	311.2
Dimensions [mm]	Ø 35 / L = 42.1
Materials	aluminium
Max. revolution, mechanical [U/min]	10000
Max. starting torque [Nm]	2.5
Reference temperature torque [°C]	20
Shaft design	hollow shaft open to one side
Shaft diameter [mm]	6
Shaft fit	H7
Shaft material	steel (1.4104)
Installation depth of shaft [mm]	6...21
Max. axial shaft misalignment [mm]	0,5

Remarks	
Notes	discontinued article

### Electrical connection

Cable: 2 m, PUR; radial, can also be used axially

brown	A
green	A inverted
grey	B
pink	B inverted
red	0 index
black	0 index inverted
brown/green	L+ (Up)
white/green	L- 0 V (Un)
blue	L+ sensor
white	L- 0 V sensor
lilac	failure inverted
screen	housing

### Diagrams and graphs

Pulse diagram	<p>Output A Output B 0 index</p>
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