



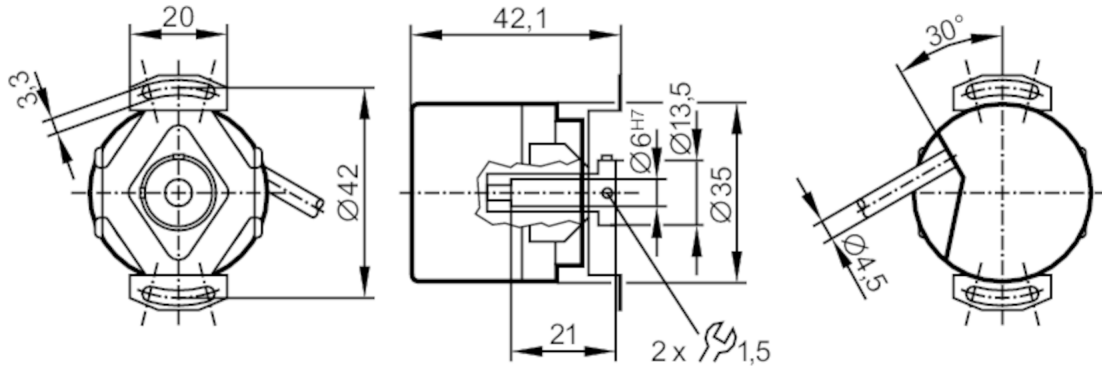
## Incremental encoder with hollow shaft

RA-0100-I24/N2

phase-out article

Alternative articles: RA3101 + EVC544

When selecting an alternative article and accessories please note that technical data may differ!



### 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 [V]	10...30 DC
Current consumption [mA]	150

### Outputs

Electrical design	HTL
Max. current load per output [mA]	50
Switching frequency [kHz]	160
Type of short-circuit protection	< 60 s
Phase difference A and B [°]	90

### Measuring/setting range

Resolution	100 resolution
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### Operating conditions

Ambient temperature [°C]	-40...70
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)



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MTTF	[years]	114
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### Mechanical data

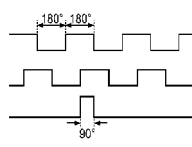
Weight	[g]	235
Dimensions	[mm]	Ø 35 / L = 42.1
Materials		aluminium
Max. revolution, mechanical	[U/min]	10000
Max. starting torque	[Nm]	2.5
Reference temperature torque	[°C]	20
Shaft design		hollow shaft open to one side
Shaft diameter	[mm]	6
Shaft fit		H7
Shaft material		steel (1.4104)
Installation depth of shaft	[mm]	6...21
Max. axial shaft misalignment	[mm]	0,5

### Electrical connection

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

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

### Diagrams and graphs

Pulse diagram	 <p>direction of rotation clockwise (looking at the shaft)</p>
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