

RA6001

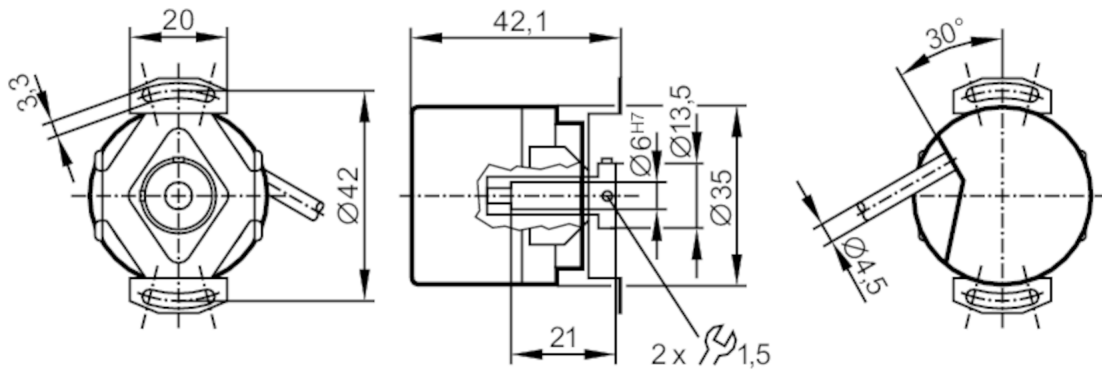
Incremental encoder with hollow shaft

RA-0010-I24/N2



Status Archive

/RA3501 /RA3101 + EVC544



Application

Function principle incremental

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 und B [°] 90

Measuring/setting range

Resolution 10 resolution

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)
MTTF [years] 114



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Mechanical data		
Weight	[g]	309.3
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

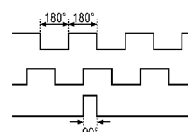
Electrical connection

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

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

Diagrams and graphs

Pulse diagram



Output A

Output B

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