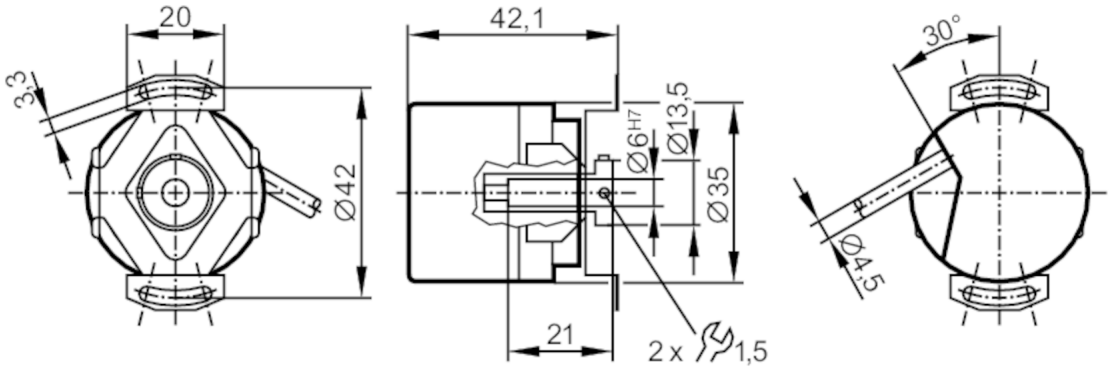
RA1015

Incremental encoder with hollow shaft

RA-0500-I05/N2

Status Archive

/RA3500 /RA3101 + EVC544



Application		
Function principle		incremental
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 und B	[°]	90
Measuring/setting range		
Resolution		500 resolution
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]	239
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

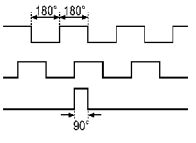
Electrical connection

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- 0V (Un)
blue	L+ sensor
white	L- 0 V sensor
lilac	failure inverted
screen	housing

Diagrams and graphs

Pulse diagram



Output A

Output B

0 index

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