RB1010

Incremental encoder with solid shaft

RB-0150-I05/L2

1   reference mark
2   M3 Depth 5 mm

CE

Product characteristics		
Resolution		150 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 und B	[°]	90
Measuring/setting range		
Resolution		150 resolution
Operating conditions		
Ambient temperature	[°C]	-20...100
Storage temperature	[°C]	-30...100
Max. relative air humidity	[%]	98
Protection		IP 64
Tests / approvals		
Shock resistance		100 g (6 ms)
Vibration resistance		10 g (55...2000 Hz)
Mechanical data		
Dimensions	[mm]	Ø 36.5 / L = 38
Material		aluminum

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Max. revolution, mechanical [U/min]	10000
Max. starting torque [Nm]	1
Reference temperature [°C] torque	20
Shaft design	solid shaft
Shaft diameter [mm]	6
Shaft material	steel (1.4104)
Max. shaft load axial (at the [N] shaft end)	5
Max. shaft load radial (at the [N] shaft end)	10

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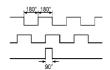
Cable: 2 m, PUR; radial, can also be used axially

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

Diagrams and graphs

Pulse diagram

Direction of rotation clockwise (looking at the shaft)