RV6152

Incremental encoder with solid shaft

RV-1024-I24/L6

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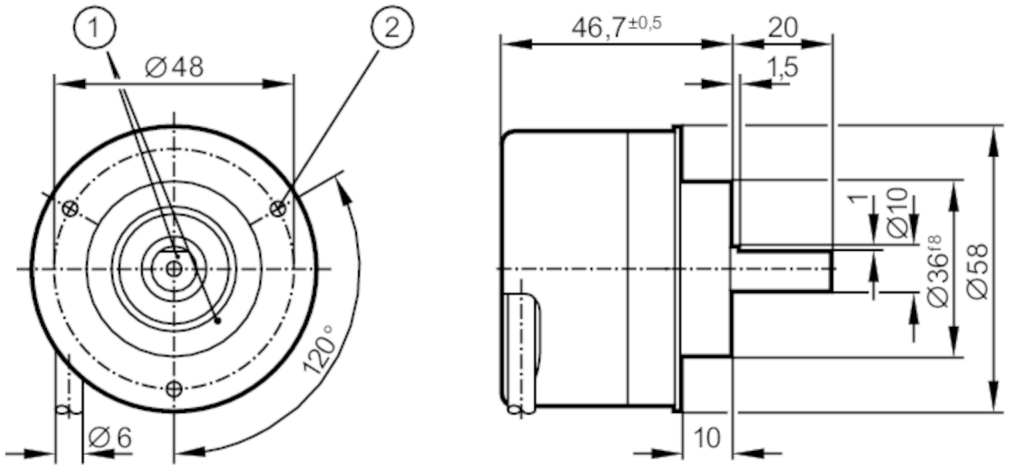

1 reference mark
2 M3 Depth 5 mm

Product characteristics		
Resolution		1024 resolution
Shaft design		solid shaft
Shaft diameter	[mm]	10
Electrical data		
Operating voltage	[V]	10...30 DC
Current consumption	[mA]	95; ((max. 150); without load)
Outputs		
Electrical design		HTL
Max. current load per output	[mA]	50
Switching frequency	[kHz]	300
Type of short-circuit protection		< 60 s
Measuring/setting range		
Resolution		1024 resolution
Operating conditions		
Ambient temperature	[°C]	-40...100
Max. relative air humidity	[%]	75; (briefly: 95 %; Condensation not permissible)
Protection		IP 64; (on the housing: IP 67; on the shaft: IP 64)
Tests / approvals		
Shock resistance		200 g (6 ms)
Vibration resistance		30 g (55...2000 Hz)

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Mechanical data		
Weight	[g]	733.8
Dimensions	[mm]	Ø 58 / L = 46.7
Material		aluminum
Max. revolution, mechanical	[U/min]	16000
Max. starting torque	[Nm]	1
Reference temperature torque	[°C]	20
Shaft design		solid shaft
Shaft diameter	[mm]	10
Shaft material		steel (1.4104)
Max. shaft load axial (at the shaft end)	[N]	10
Max. shaft load radial (at the shaft end)	[N]	20

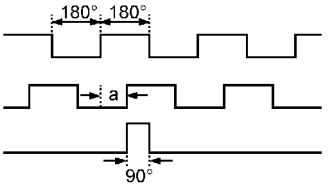
Electrical connection

Cable: 6 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



Output A

Output B

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