RV6106

Incremental encoder with solid shaft

RV-0500-I24/S M

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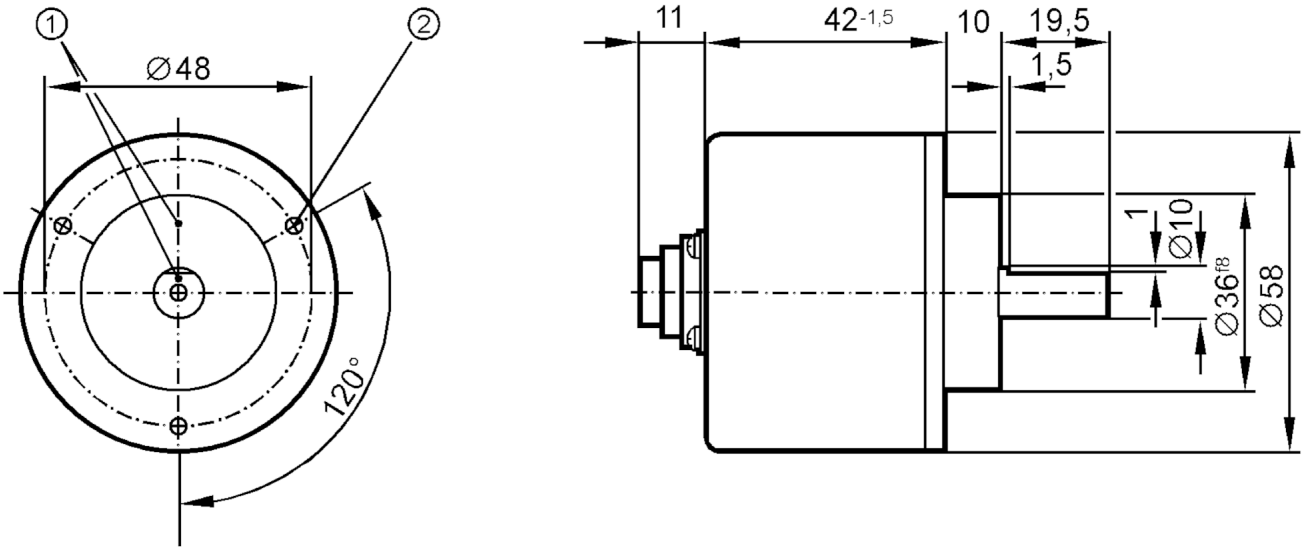

1 reference mark
2 M3 Depth 5 mm

Product characteristics		
Resolution		500 resolution
Shaft design		solid shaft
Shaft diameter	[mm]	10
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]	300
Type of short-circuit protection		< 60 s
Phase difference A and B	[°]	90
Measuring/setting range		
Resolution		500 resolution
Operating conditions		
Ambient temperature	[°C]	-30...85
Storage temperature	[°C]	-30...100
Max. relative air humidity	[%]	98
Protection		IP 64

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Tests / approvals		
Shock resistance		100 g (11 ms)
Vibration resistance		10 g (58...2000 Hz)

Mechanical data		
Dimensions	[mm]	Ø 58 / L = 82.5
Materials		aluminium
Max. revolution, mechanical	[U/min]	12000
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

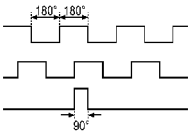
Electrical connection

Connector: 1 x (ifm 1013.1), axial

1	L+
2	A
3	Screen housing
4	B
5	0 index
6	0V

Diagrams and graphs

Pulse diagram



direction of rotation clockwise (looking at the shaft)