

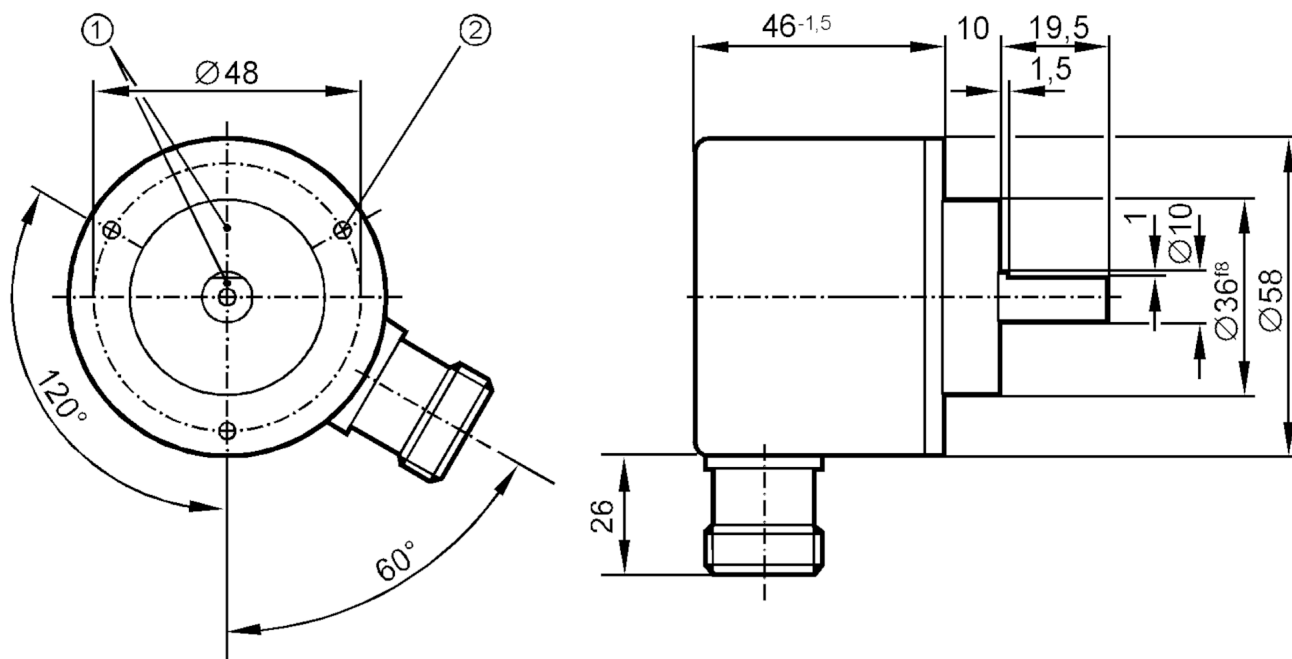
RV6141

Incremental encoder with solid shaft

RV-1024-I24/K E



Status Archive



- 1 reference mark
- 2 M3 Depth 5 mm



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 1024 resolution

Operating conditions

Ambient temperature [°C] -30...85
Storage temperature [°C] -30...100
Max. relative air humidity [%] 98
Protection IP 66

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Tests / approvals		
Shock resistance		100 g (6 ms)
Vibration resistance		15 g (55...2000 Hz)
MTTF	[years]	190

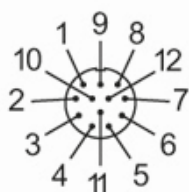
Mechanical data		
Weight	[g]	400
Dimensions	[mm]	Ø 58 / L = 75.5
Materials		aluminium
Max. revolution, mechanical	[U/min]	12000
Max. starting torque	[Nm]	1
Reference temperature torque	[°C]	20
Shaft design		solid shaft
Shaft diameter	[mm]	10
Shaft material		steel (1.4104)
Max. shaft load axial (at the shaft end)	[N]	10
Max. shaft load radial (at the shaft end)	[N]	20

Remarks	
Notes	discontinued article

Electrical connection

1	B inverted
2	L+ sensor
3	0 index
4	0 index inverted
5	A
6	A inverted
7	failure inverted
8	B
9	n.c.
10	0V
11	0V sensor
12	L+

Connector: 1 x M23 (ifm 1001.4), radial



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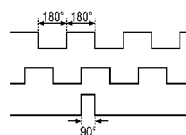


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Diagrams and graphs

Pulse diagram



Output A

Output B

0 index

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