

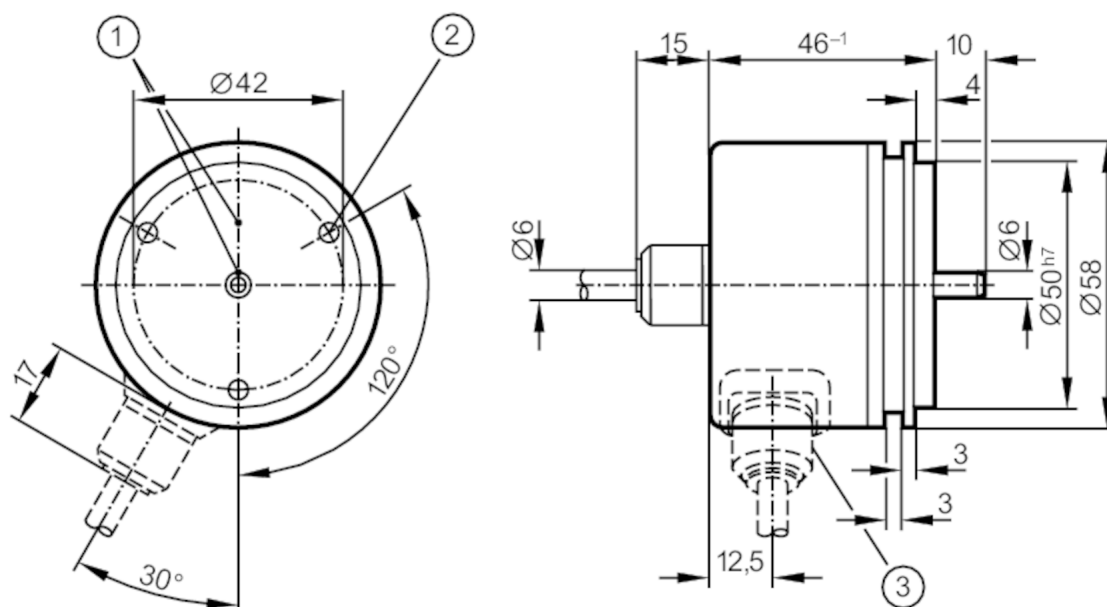
RU1001

Incremental encoder with solid shaft

RU-0050-I05/L2



Status Archive



- 1 reference mark
- 2 M4 Depth 5 mm



Application

Function principle	incremental
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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	50 resolution
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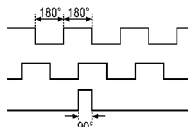
Operating conditions

Ambient temperature	[°C]	-30...100
Note on ambient temperature	for firmly laid cable: -30 °C	
Storage temperature	[°C]	-30...100
Max. relative air humidity	[%]	98
Protection	IP 64	



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Tests / approvals																										
Shock resistance		100 g (6 ms)																								
Vibration resistance		10 g (55...2000 Hz)																								
MTTF	[years]	190																								
Mechanical data																										
Weight	[g]	490																								
Dimensions	[mm]	Ø 58 / L = 46																								
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]	6																								
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																								
Fixing flange		synchro-flange																								
Electrical connection																										
Cable: 2 m, PUR; axial																										
<table><tr><td>brown</td><td>A</td></tr><tr><td>green</td><td>A inverted</td></tr><tr><td>grey</td><td>B</td></tr><tr><td>pink</td><td>B inverted</td></tr><tr><td>red</td><td>0 index</td></tr><tr><td>black</td><td>0 index inverted</td></tr><tr><td>blue</td><td>L+ sensor</td></tr><tr><td>white</td><td>0V sensor</td></tr><tr><td>brown/green</td><td>L+ (Up)</td></tr><tr><td>white/green</td><td>0V (Un)</td></tr><tr><td>lilac</td><td>failure inverted</td></tr><tr><td>screen</td><td>housing</td></tr></table>			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	failure inverted	screen	housing
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Diagrams and graphs																										
Pulse diagram	 Output A Output B 0 index																									

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