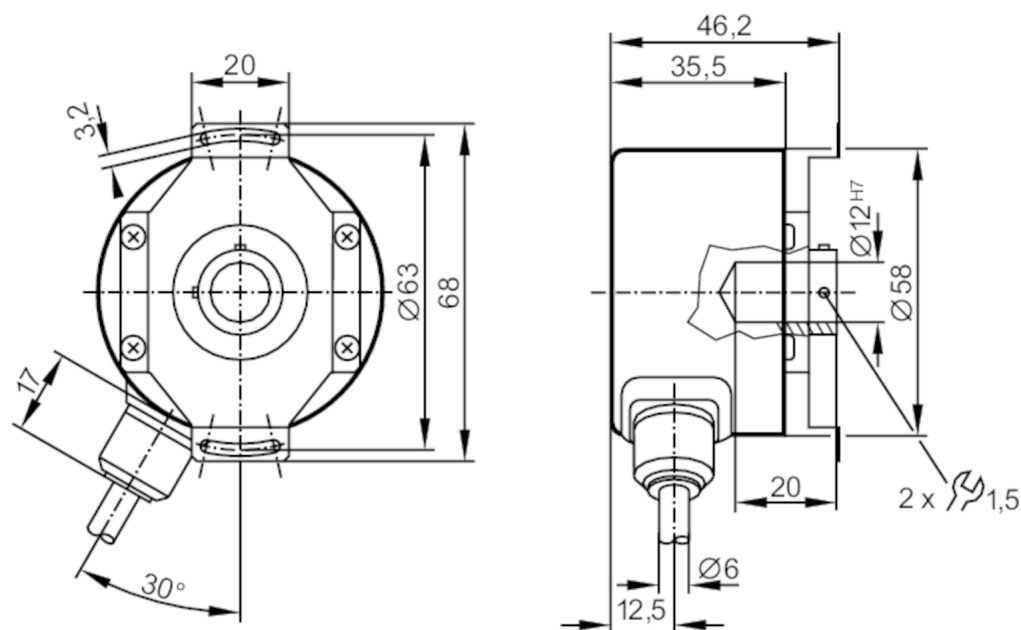


Incremental encoder with hollow shaft

RO-0250-I24/N1U

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Product characteristics

Resolution	250 resolution
Shaft design	hollow shaft open to one side
Shaft diameter [mm]	12

Electrical data

Operating voltage [V]	10...30 DC
Current consumption [mA]	< 150

Outputs

Electrical design	HTL
Max. current load per output [mA]	20
Switching frequency [kHz]	160
Type of short-circuit protection	< 60 s
Phase difference A and B [°]	90

Measuring/setting range

Resolution	250 resolution
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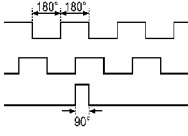
Operating conditions

Ambient temperature [°C]	-30...92
Note on ambient temperature	Up < 18 V: -30...100 °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)
Mechanical data		
Dimensions	[mm]	Ø 58 / L = 35.5
Materials		aluminium
Max. revolution, mechanical	[U/min]	12000
Max. starting torque	[Nm]	2.5
Reference temperature torque	[°C]	20
Shaft design		hollow shaft open to one side
Shaft diameter	[mm]	12
Shaft fit		H7
Shaft material		stainless steel
Installation depth of shaft	[mm]	10
Max. axial shaft misalignment	[mm]	1; (max. radial shaft alignment: ± 0,05 mm)
Electrical connection		
Cable: 1 m, PUR; radial		
brown	A	
green	A inverted	
grey	B	
pink	B inverted	
red	0 index	
black	0 index inverted	
blue	10...30V sensor	
white	0V sensor	
brown/green	10...30V (Up)	
white/green	0V (Un)	
screen	housing	
Diagrams and graphs		
Pulse diagram	 direction of rotation clockwise (looking at the shaft)	