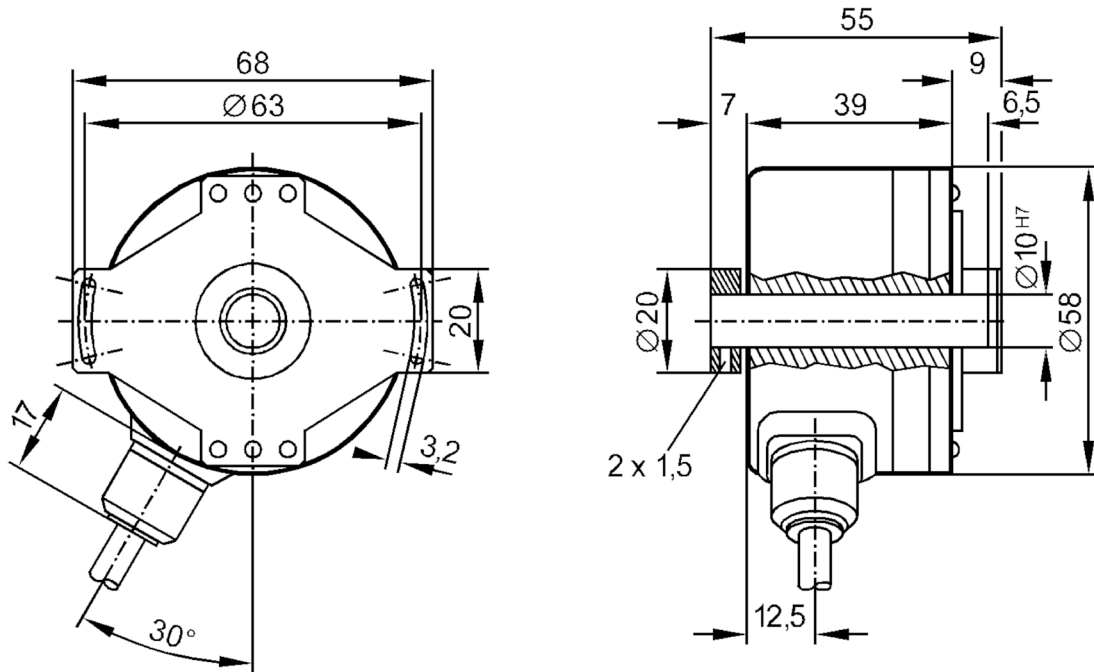


Incremental encoder with hollow shaft

RO-2500-I05/N11

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Product characteristics

Resolution	2500 resolution
Shaft design	continuous hollow shaft
Shaft diameter [mm]	10

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	2500 resolution
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Operating conditions

Ambient temperature	[°C]	-30...100
Storage temperature	[°C]	-30...100
Max. relative air humidity	[%]	98
Protection		IP 64

Tests / approvals

Shock resistance	100 g (6 ms)
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RO1339



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Vibration resistance	10 g (55...2000 Hz)
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Mechanical data

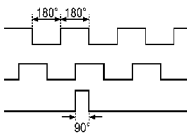
Dimensions [mm]	Ø 58 / L = 55
Material	aluminum
Max. revolution, mechanical [U/min]	12000
Max. starting torque [Nm]	2.5
Reference temperature torque [°C]	20
Shaft design	continuous hollow shaft
Shaft diameter [mm]	10
Shaft fit	H7
Shaft material	stainless steel
Installation depth/shaft [mm]	10
Max. axial 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	L+ sensor
white	0V sensor
brown/green	L+ (Up)
white/green	0V (Un)
lilac	error inverted
screen	housing

Diagrams and graphs

Pulse diagram	 <p>Direction of rotation clockwise (looking at the shaft)</p>
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