RO1377

Incremental encoder with hollow shaft

RO-0360-I05/N6

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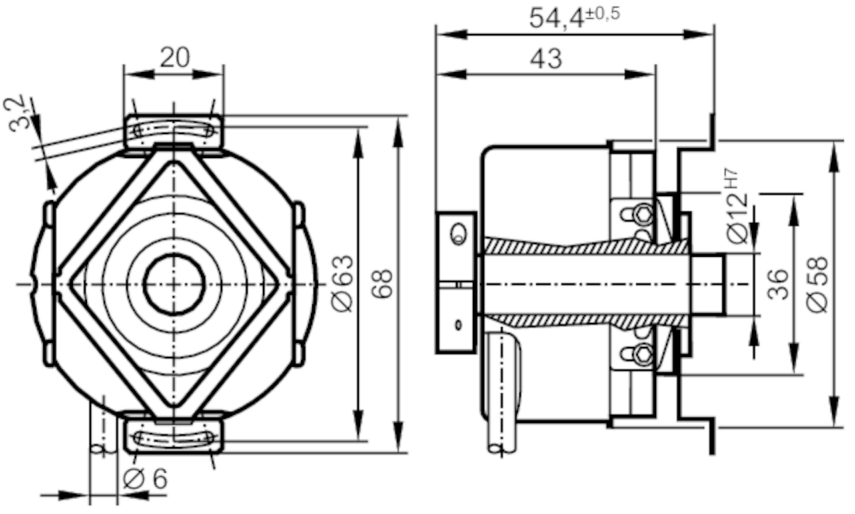

Product characteristics		
Resolution		360 resolution
Shaft design		continuous hollow shaft
Shaft diameter	[mm]	12
Application		
Function principle		incremental
Detection system		photoelectric
Electrical data		
Operating voltage tolerance	[%]	10
Operating voltage	[V]	5 DC
Current consumption	[mA]	< 150
Outputs		
Electrical design		TTL
Max. current load per output	[mA]	20
Switching frequency	[kHz]	300
Phase difference A and B	[°]	90
Measuring/setting range		
Resolution		360 resolution
Operating conditions		
Ambient temperature	[°C]	-30...100
Max. relative air humidity	[%]	98

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Protection		IP 64; (on the housing: IP 66; on the shaft: IP 64)

Tests / approvals

Shock resistance		200 g
Vibration resistance		30 g

Mechanical data

Weight	[g]	724.2
Dimensions	[mm]	Ø 58 / L = 54.4
Materials		aluminium
Max. revolution, mechanical	[U/min]	12000; (when using both shaft clamping rings)
Max. starting torque	[Nm]	2.5
Reference temperature torque	[°C]	20
Shaft design		continuous hollow shaft
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)

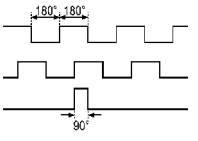
Electrical connection

Cable: 6 m, PUR; radial, can also be used axially

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

Diagrams and graphs

Pulse diagram



direction of rotation clockwise (looking at the shaft)