

RO1364

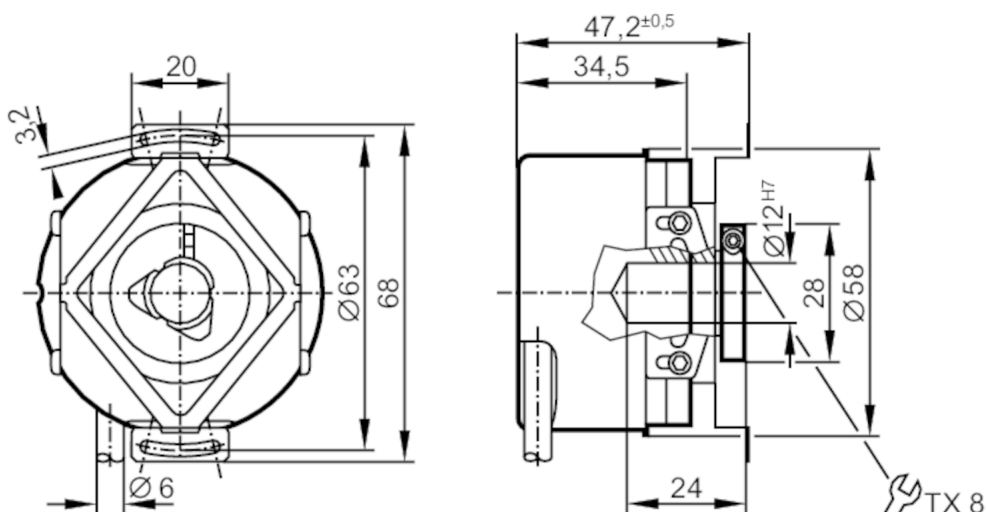
Incremental encoder with hollow shaft

RO-2048-I05/N1U



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Application

Function principle	incremental
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Electrical data

Operating voltage tolerance	[%]	10
Operating voltage	[V]	5 DC
Current consumption	[mA]	< 120

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	2048 resolution
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Operating conditions

Ambient temperature	[°C]	-40...100
Max. relative air humidity	[%]	98
Protection	IP 64; (on the housing: IP 67; on the shaft: IP 64)	

Tests / approvals

Shock resistance	200 g	
Vibration resistance	30 g	
MTTF	[years]	190



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Mechanical data		
Weight	[g]	448.2
Dimensions	[mm]	Ø 58 / L = 35.5
Materials		aluminium
Max. revolution, mechanical	[U/min]	12000
Max. starting torque	[Nm]	1
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)

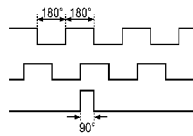
Remarks	
Notes	discontinued article

Electrical connection

Cable: 1 m, PUR; Maximum cable length: 100 m; 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	 Output A Output B 0 index
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