

RO6344

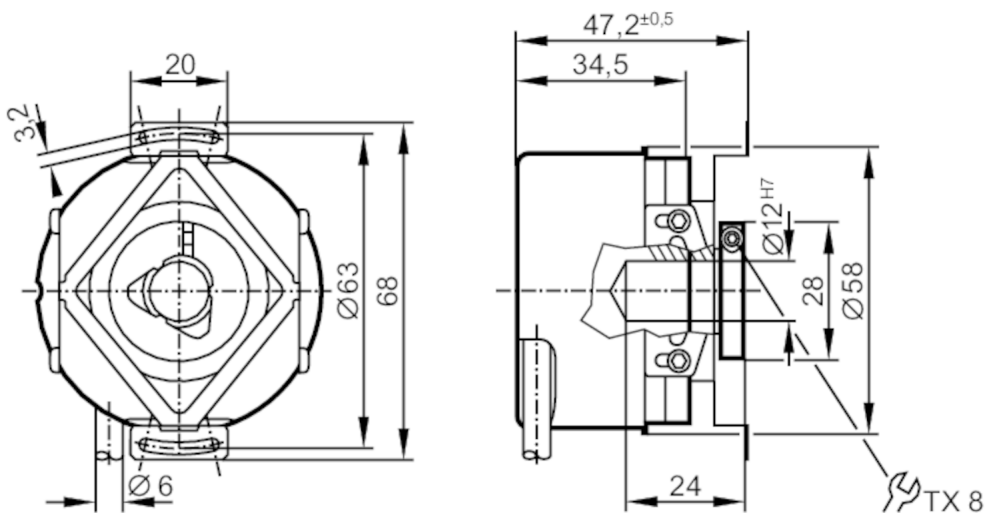
Incremental encoder with hollow shaft

RO-0500-I24/N1U



Status Archive

/ROP521 + E12402



Application

Function principle incremental

Electrical data

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

Outputs

Electrical design HTL
Max. current load per output [mA] 50
Switching frequency [kHz] 300
Type of short-circuit protection < 60 s
Phase difference A und B [°] 90

Measuring/setting range

Resolution 500 resolution

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



Incremental encoder with hollow shaft

RO-0500-I24/N1U

Mechanical data		
Weight	[g]	445.6
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)

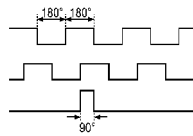
Remarks	
Notes	discontinued article

Electrical connection

Cable: 1 m, PUR; Maximum cable length: 300 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)
screen	housing
lilac	failure inverted

Diagrams and graphs

Pulse diagram	 Output A Output B 0 index
---------------	---

Status Archive

/ROP521 + E12402