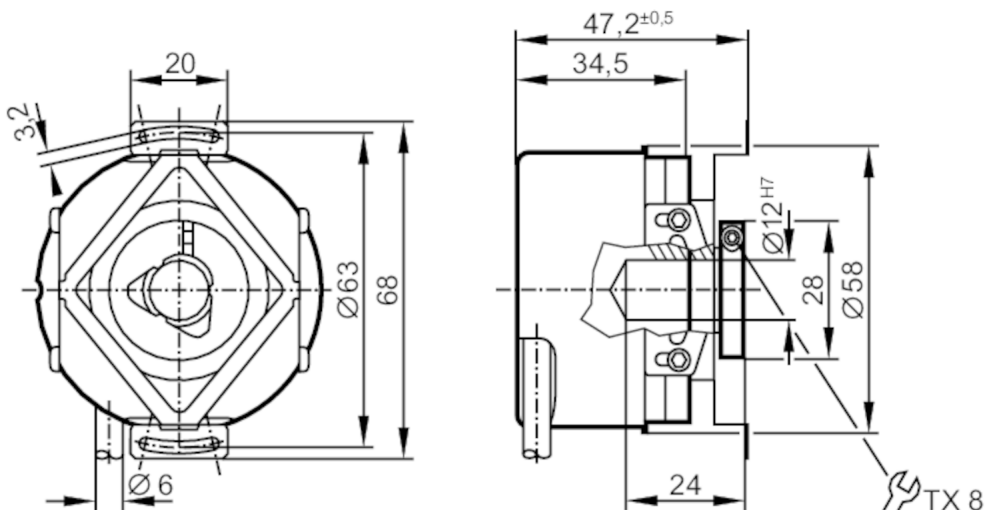# RO6345

Incremental encoder with hollow shaft

RO-1024-I24/N1U

Article no longer available - archive entry

Alternative articles: ROP521 + E12402
When selecting an alternative article and accessories please note that technical data may differ!

Product characteristics	
Resolution	1024 resolution
Shaft design	hollow shaft open to one side
Shaft diameter [mm]	12

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 and B [°]	90

Measuring/setting range	
Resolution	1024 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)

RO6345

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Tests / approvals	
Shock resistance	200 g
Vibration resistance	30 g

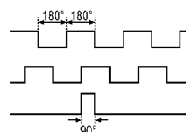| Mechanical data		
Weight	[g]	448
Dimensions	[mm]	Ø 58 / L = 35.5
Materials		aluminium
Max. revolution, mechanical [U/min]		12000
Max. starting torque	[Nm]	1
Reference temperature torque	[°C]	20
Shaft design		hollow shaft open to one side
Shaft diameter	[mm]	12
Shaft fit		H7
Shaft material		stainless steel
Installation depth of shaft	[mm]	10
Max. axial shaft misalignment	[mm]	1; (max. radial shaft alignment: ± 0,05 mm)

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	 direction of rotation clockwise (looking at the shaft)