RO6342

Incremental encoder with hollow shaft

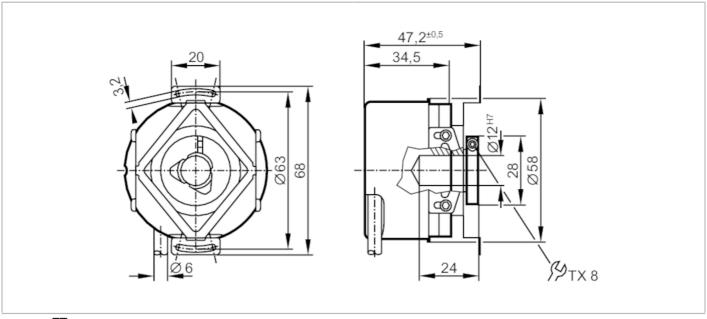
RO-0100-I24/N1U



phase-out article

Alternative articles: ROP521 + E12402

When selecting an alternative article and accessories please note that technical data may differ!





Product characteristics		
Resolution		100 resolution
Shaft design		hollow shaft open to one side
Shaft diameter	[mm]	12
Application		
Function principle		incremental
Electrical data		
Operating voltage	[V]	1030 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		100 resolution
Operating conditions		
Ambient temperature	[°C]	-40100
Max. relative air humidity	[%]	98
Protection		IP 64; (on the housing: IP 67; on the shaft: IP 64)

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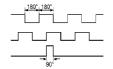


Tests / approv	als			
Shock resistant	ce	200 g		
Vibration resista	ance	30 g		
MTTF	[years]	190		
Mechanical da	ıta			
Weight	[g]	437.6		
Dimensions	[mm]	Ø 58 / L = 35.5		
Materials		aluminium		
Max. revolution, mechanical [U/min]		12000		
Max. starting to	rque [Nm]	1		
Reference temptorque	perature [°C]	20		
Shaft design		hollow shaft open to one side		
Shaft diameter	[mm]	12		
Shaft fit		H7		
Shaft material		stainless steel		
Installation dep	th of shaft [mm]	10		
Max. axial shaft	t misalignment [mm]	1; (max. radial shaft alignment: ± 0,05 mm)		
Electrical conr	nection			
Cable: 1 m, PUR; Maximum cable length: 300 m; radial, can also be used axially				
brown	Α			
green	A inverted			
grey	В			
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)