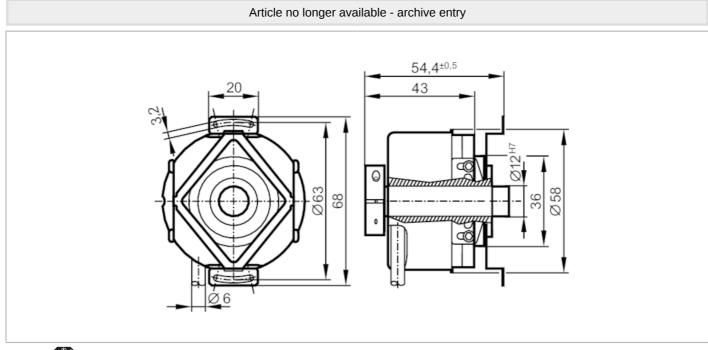
RO1375

Incremental encoder with hollow shaft



RO-1024-V05/N12



Product characteristics			
Resolution		1024 resolution	
Shaft design		continuous hollow shaft	
Shaft diameter	[mm]	12	
Application			
Function principle		incremental	
Electrical data			
Operating voltage tolerance	[%]	10	
Operating voltage	[V]	5 DC	
Current consumption	[mA]	< 150	
Outputs			
Electrical design		1 Vss; (sinusoidal)	
Switching frequency	[kHz]	300	
Phase difference A and B	[°]	90	
Measuring/setting range			
Resolution		1024 resolution	
Operating conditions			
Ambient temperature	[°C]	-40100	
Max. relative air humidity	[%]	98	
Protection		IP 64; (on the housing: IP 66; on the shaft: IP 64)	
Tests / approvals			
Shock resistance		200 g (2 ms) / 100 g (6 ms)	
Vibration resistance		30 g (552000 Hz)	

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Mechanical data					
Weight	[g]	445			
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	t [mm]	1; (max. radial shaft alignment: ± 0,05 mm)			
Electrical connection					
Cable: 1 m, PUR; radial, can also be used axially					

pink	B inverted
blue	+5V sensor
red	0 index
black	0 index inverted
brown	А
green	A inverted
lilac	failure inverted
grey	В
brown/green	+5V Up
white/green	0V Un
white	0V sensor
Screen	housing

Diagrams and graphs

Pulse diagram

