RO1319

Incremental encoder with hollow shaft





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Product characteristics		
Resolution		500 resolution
Shaft design		continuous hollow shaft
Shaft diameter	[mm]	10
Electrical data		
Operating voltage tolerance	[%]	10
Operating voltage	[V]	5 DC
Current consumption	[mA]	< 150
Outputs		
Electrical design		TTL
Max. current load per output	[mA]	20
Switching frequency	[kHz]	300
Phase difference A and B	[°]	90
Measuring/setting range		
Resolution		500 resolution
Operating conditions		
Ambient temperature	[°C]	-30100
Max. relative air humidity	[%]	98
Protection		IP 64; (on the housing: IP 66; on the shaft: IP 64)
Tests / approvals		
Shock resistance		200 g
Vibration resistance		30 g
Mechanical data		
Weight	[g]	450

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Dimensions	[mm]	Ø 58 / L = 54.4
Materials		aluminium
Max. revolution, mechanical [l	J/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]	10
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; radial, can also be used axially

brown A

green A inverted

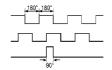
grey B

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



direction of rotation clockwise (looking at the shaft)