RO1359

Incremental encoder with hollow shaft

RO-0500-I05/T U



Article no longer available - archive entry 46,2 35,5 20 20 2x 71,5

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Product characteristics		
Resolution		500 resolution
Shaft design		hollow shaft open to one side
Shaft diameter	[mm]	12
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]	-3096
Note on ambient temperature		Up < 18 V: -30100 °C
Storage temperature	[°C]	-30100
Max. relative air humidity	[%]	98
Protection		IP 64

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Tests / approvals		
Shock resistance		100 g (6 ms)
Vibration resistance		10 g (552000 Hz)
Mechanical data		
Dimensions	[mm]	Ø 58 / L = 46.2
Materials		aluminium
Max. revolution, mechanical [U	J/min]	12000
Max. starting torque	[Nm]	2.5
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

Connector: 1 x M18, radial



B Ub sensor
C 0 index
D 0 index inverted
E A
F A inverted
G failure inverted
H B

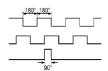
B inverted

K 0V Un
L 0V sensor
M L+ Up
screen housing

Diagrams and graphs

Pulse diagram

Α



direction of rotation clockwise (looking at the shaft)