



Incremental encoder with solid shaft

RU-2048-I24/L2

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Alternative articles: RUP500 + E12402

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



- 1 reference mark
2 M4 Depth 5 mm



Product characteristics

Resolution	2048 resolution
Shaft design	solid shaft
Shaft diameter [mm]	6

Application

Function principle	incremental
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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	2048 resolution
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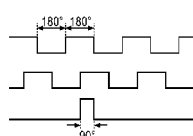
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Operating conditions		
Ambient temperature	[°C]	-30...85
Note on ambient temperature		for firmly laid cable: -30 °C
Storage temperature	[°C]	-30...100
Max. relative air humidity	[%]	98
Protection		IP 64

Tests / approvals		
Shock resistance		100 g (6 ms)
Vibration resistance		10 g (55...2000 Hz)

Mechanical data		
Weight	[g]	492.8
Dimensions	[mm]	Ø 58 / L = 46
Materials		aluminium
Max. revolution, mechanical	[U/min]	12000
Max. starting torque	[Nm]	1
Reference temperature torque	[°C]	20
Shaft design		solid shaft
Shaft diameter	[mm]	6
Shaft material		steel (1.4104)
Max. shaft load axial (at the shaft end)	[N]	10
Max. shaft load radial (at the shaft end)	[N]	20
Fixing flange		synchro-flange

Electrical connection		
Cable: 2 m, PUR; axial		
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)