



Incremental encoder with solid shaft

RU10000-I05/L6

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Alternative articles: RUP500 + E11855

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	10000 resolution
Shaft design	solid shaft
Shaft diameter [mm]	6

Application

Function principle	incremental
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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 und B [°]	90

Measuring/setting range

Resolution	10000 resolution
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Operating conditions

Ambient temperature [°C]	-30...100
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Note on ambient temperature		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]	740
Dimensions	[mm]	Ø 58 / L = 46
Material		aluminum
Max. revolution, mechanical	[U/min]	12000
Max. starting torque	[Nm]	1
Reference temperature	[°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

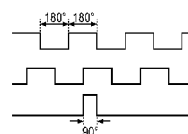
Electrical connection

Cable: 6 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	error inverted
screen	housing

Diagrams and graphs

Pulse diagram



Direction of rotation clockwise (looking at the shaft)