# **RU1024**

#### Incremental encoder with solid shaft

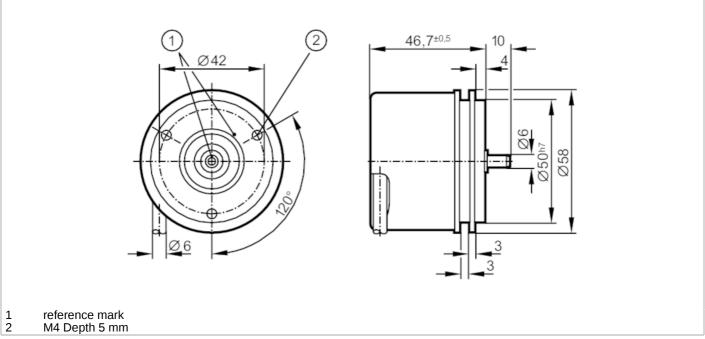




### Article no longer available - archive entry

#### Alternative articles: RUP500 + E12402

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





Product characteristics		
Resolution		1000 resolution
Shaft design		solid shaft
Shaft diameter	[mm]	6
Application		
Function principle		incremental
Electrical data		
Operating voltage tolerance	[%]	10
Operating voltage	[V]	5 DC
Current consumption	[mA]	< 120
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		1000 resolution
Operating conditions		
Ambient temperature	[°C]	-40100
Note on ambient temperature	!	for firmly laid cable: -40 °C

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### Incremental encoder with solid shaft



RU-1000-I05/L2

Max. relative air humidity	[%]	98
Protection		IP 64; (on the housing: IP 67; on the shaft: IP 64)
Tests / approvals		
Shock resistance		200 g
Vibration resistance		30 g
Mechanical data		
Weight	[g]	494.8
Dimensions	[mm]	Ø 58 / L = 46.7
Materials		aluminium
Max. revolution, mechanical	[U/min]	16000
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)	e [N]	20
Fixing flange		synchro-flange
Electrical connection		
	cable length	n: 100 m; radial, can also be used axially
	cable length	n: 100 m; radial, can also be used axially
Cable: 2 m, PUR; Maximum brown A green A inverte		n: 100 m; radial, can also be used axially
Cable: 2 m, PUR; Maximum brown A green A inverte grey B	d	n: 100 m; radial, can also be used axially
Cable: 2 m, PUR; Maximum brown A green A inverte grey B pink B inverte	d	n: 100 m; radial, can also be used axially
Cable: 2 m, PUR; Maximum brown A green A inverte grey B pink B inverte red 0 index	d	n: 100 m; radial, can also be used axially
Cable: 2 m, PUR; Maximum brown A green A inverte grey B pink B inverte red 0 index black 0 index in	d d nverted	n: 100 m; radial, can also be used axially
Cable: 2 m, PUR; Maximum brown A green A inverte grey B pink B inverte red 0 index black 0 index is blue L+ senso	d d nverted or	n: 100 m; radial, can also be used axially
Cable: 2 m, PUR; Maximum brown A green A inverte grey B pink B inverte red 0 index black 0 index is blue L+ senso white OV senso	d d nverted or	n: 100 m; radial, can also be used axially
Cable: 2 m, PUR; Maximum brown A green A inverte grey B pink B inverte red 0 index black 0 index in blue L+ senso white 0V senso brown/green L+ (Up)	d d nverted or	n: 100 m; radial, can also be used axially
Cable: 2 m, PUR; Maximum brown A green A inverte grey B pink B inverte red 0 index black 0 index is blue L+ senso white OV senso	d d nverted or or	n: 100 m; radial, can also be used axially
Cable: 2 m, PUR; Maximum brown A green A inverte grey B pink B inverte red 0 index black 0 index is blue L+ senso white 0V senso brown/green L+ (Up) white/green 0V (Un)	d d nverted or or	n: 100 m; radial, can also be used axially
Cable: 2 m, PUR; Maximum brown A green A inverte grey B pink B inverte red 0 index black 0 index i blue L+ senso white 0V senso brown/green L+ (Up) white/green 0V (Un) lilac failure inv	d d nverted or or	n: 100 m; radial, can also be used axially
Cable: 2 m, PUR; Maximum brown A green A inverte grey B pink B inverte red O index black O index ib blue L+ senso white OV senso brown/green L+ (Up) white/green OV (Un) lilac failure in screen housing  Diagrams and graphs	d d nverted or or	n: 100 m; radial, can also be used axially
Cable: 2 m, PUR; Maximum brown A green A inverte grey B pink B inverte red 0 index black 0 index is blue L+ senso white 0V senso brown/green L+ (Up) white/green 0V (Un) lilac failure intersection	d d nverted or or	a: 100 m; radial, can also be used axially