# **RV1033**

### Incremental encoder with solid shaft

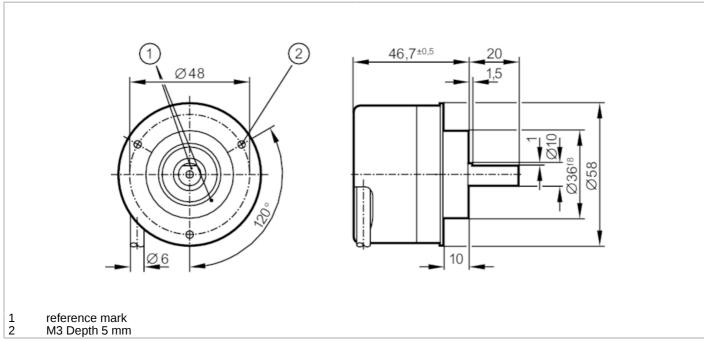




### Article no longer available - archive entry

#### Alternative articles: RV3500

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





Product characteristics		
Resolution		2000 resolution
Shaft design		solid shaft
Shaft diameter	[mm]	10
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		2000 resolution
Operating conditions		
Ambient temperature	[°C]	-40100
Note on ambient temperature		for firmly laid cable: -40 °C

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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]	468.1	
Dimensions	[mm]	Ø 58 / L = 46.7	
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]	10	
Shaft material		steel (1.4104)	
Max. shaft load axial (at t shaft end)	the [N]	10	
Max. shaft load radial (at shaft end)	the [N]	20	
Electrical connection			
Cable: 2 m, PUR; Maximum cable length: 100 m; radial, can also be used axially			
brown A			
green A inve	erted		
grey B			
pink B inve			
red 0 inde			
	ex inverted		
blue L+ se white OV se			
white 0V se brown/green L+ (U			
white/green 0V (U			
	e inverted		
screen housi			
Diagrams and graphs	<u> </u>		
Pulse diagram			
		direction of rotation clockwise (looking at the shaft)	