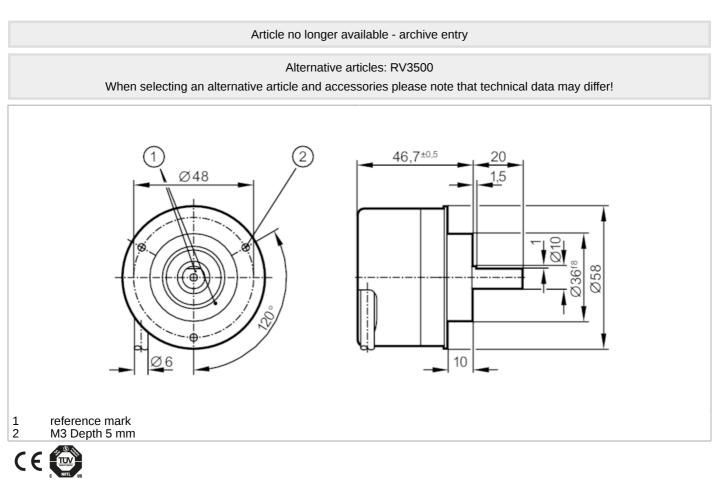
## RV1016

## Incremental encoder with solid shaft

RV-0500-105/L2





Product characteristics		
Resolution		500 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		500 resolution
Operating conditions		
Ambient temperature	[°C]	-40100
Note on ambient temperature		for firmly laid cable: -40 °C

## RV1016

## Incremental encoder with solid shaft



RV-0500-105/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]	468		
Dimensions [mm]	Ø 58 / L = 46.7		
Materials	aluminium		
Max. revolution, mechanical [U/min]	12000		
Max. starting torque [Nm]	1		
Reference temperature [°C] torque	20		
Shaft design	solid shaft		
Shaft diameter [mm]	10		
Shaft material	steel (1.4104)		
Max. shaft load axial (at the [N] shaft end)	10		
Max. shaft load radial (at the [N] shaft end)	20		
Electrical connection			
Cable: 2 m, PUR; Maximum cable length: 100 m; radial, can also be used axially			
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	$\frac{1}{9}$		