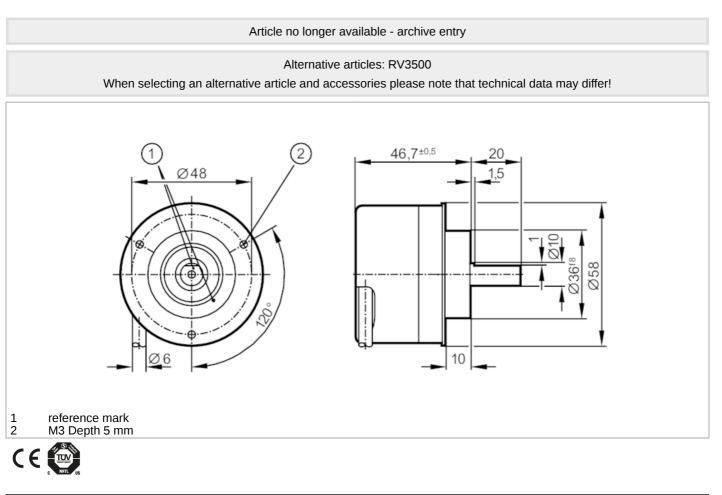
RV6024

Incremental encoder with solid shaft

RV-1000-I24/L2





Product characteristics		
Resolution		1000 resolution
Shaft design		solid shaft
Shaft diameter	[mm]	10
Application		
Function principle		incremental
Electrical data		
Operating voltage	[V]	1030 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		1000 resolution
Operating conditions		
Ambient temperature	[°C]	-40100
Note on ambient temperature		for firmly laid cable: -40 °C

ifm electronic gmbh • Friedrichstraße 1 • 45128 Essen — We reserve the right to make technical alterations without prior notice. — EN-GB — RV6024-03 — 01.09.2010 — 🗵

RV6024

Incremental encoder with solid shaft



RV-1000-I24/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]	467.8		
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: 300 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			
	direction of rotation clockwise (looking at the shaft)		