RU1048

Incremental encoder with solid shaft

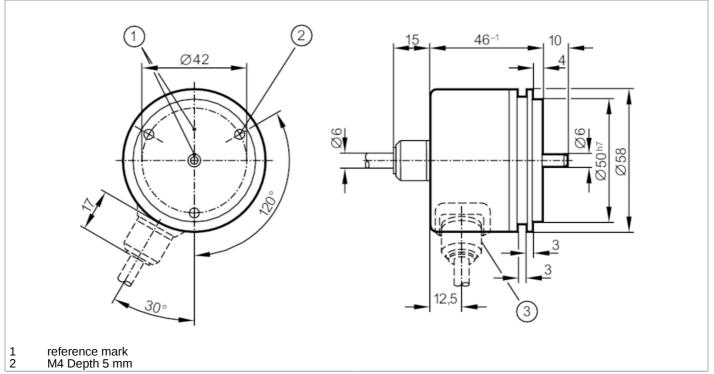




Article no longer available - archive entry

Alternative articles: RUP500 + E12402

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



Product characteristics		
Resolution		9000 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]	150
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		9000 resolution
Operating conditions		
Ambient temperature	[°C]	-30100

ifm electronic gmbh • Friedrichstraße 1 • 45128 Essen — We reserve the right to make technical alterations without prior notice. — EN-GB — RU1048-02 — 01.09.2010 — 🗵

RU1048

Incremental encoder with solid shaft



RU-9000-105/L2

Note on ambient temperature	for firmly laid cable: -30 °C		
Storage temperature [°C]	-30100		
Max. relative air humidity [%]	98		
Protection	IP 64		
Tests / approvals			
Shock resistance	100 g (6 ms)		
Vibration resistance	10 g (552000 Hz)		
Mechanical data			
Weight [g]	487.6		
Dimensions [mm]	Ø 58 / L = 46		
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]	6		
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		
Fixing flange	synchro-flange		
Electrical connection			
Cable: 2 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 OV (Un)			
lilac failure inverted			
screen housing			
Diagrams and graphs			
Pulse diagram			
~			
	direction of rotation clockwise (looking at the shaft)		