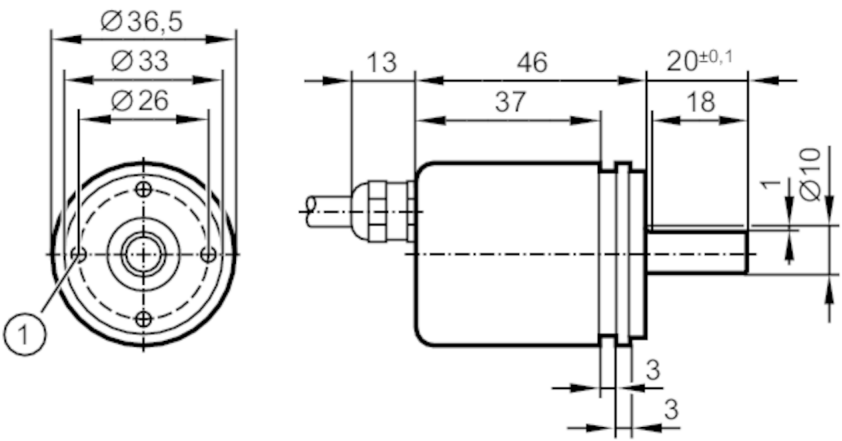


RM8002



Absolute multiturn encoder with solid shaft

RMS4096-S24/L21



M3 Depth 6 mm



Product characteristics		
Resolution		4096 resolution; 8192 revolutions; 25 bit
Communication interface		SSI data interface
Shaft design		solid shaft
Shaft diameter	[mm]	10
Application		
Function principle		absolute
Revolution type		multiturn
Electrical data		
Operating voltage	[V]	4.5...30 DC
Current consumption	[mA]	< 30
Inputs		
Inputs		reversal of direction of rotation; reset to zero
Outputs		
Code		Gray code; (increasing code values when turned clockwise (seen on the shaft))
Code signal		Clock input; TTL-compatible signals; clock and clock (inv.) from drivers to RS 422; data output; synchronous serial; TTL-compatible signal data and data (inv.)
Measuring/setting range		
Resolution		4096 resolution; 8192 revolutions; 25 bit
Interfaces		
Communication interface		SSI data interface
Operating conditions		
Ambient temperature	[°C]	-40...85
Max. relative air humidity	[%]	98
Protection		IP 65
Tests / approvals		
Shock resistance		< 300 g (6 ms)
Vibration resistance		30 g (10...1000 Hz)
MTTF	[years]	350

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Mechanical data		
Weight	[g]	332
Housing		tubular
Dimensions	[mm]	Ø 36.5 / L = 79
Material		flange: aluminum; housing: steel powder-coated
Max. revolution, mechanical	[U/min]	12000
Max. starting torque	[Nm]	0.03
Reference temperature torque	[°C]	25
Shaft design		solid shaft
Shaft diameter	[mm]	10
Shaft material		steel
Max. shaft load axial (at the shaft end)	[N]	40
Max. shaft load radial (at the shaft end)	[N]	110
Fixing flange		Ø 36.5 mm

Remarks	
Remarks	Wires/pins not connected (n.c.) must not be used.
Pack quantity	1 pcs.

Electrical connection	
Cable: 2 m, PUR; Maximum cable length: 100 m; axial	
white	sensor 0 V
brown	sensor Ub
green	clock
yellow	clock (inv.)
grey	data
pink	data (inv.)
blue	reset to zero
red	reversal of direction of rotation
screen	housing

Diagrams and graphs	
Pulse diagram	1 clock 2 data