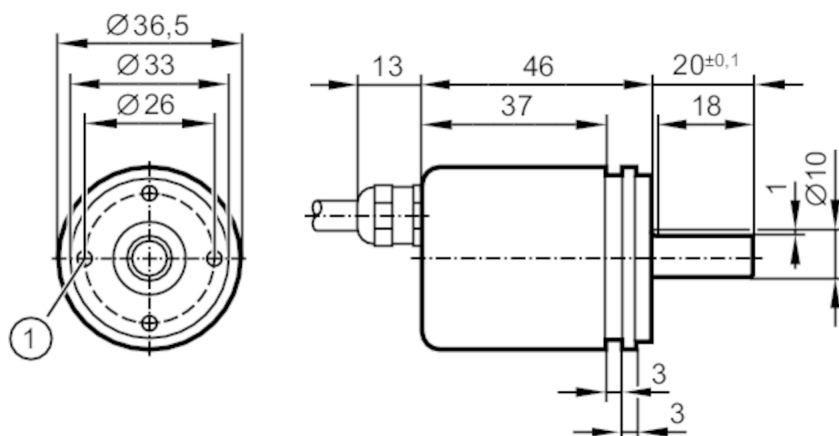


RM8002



Absolute multiturn encoder with solid shaft

RMS4096-S24/L21



M3 Depth 6 mm



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
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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 signals, data, and data (inv.)

Measuring/setting range

Resolution	4096 resolution; 8192 revolutions; 25 bit
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Interfaces

Communication interface	SSI data interface
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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]	381



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Mechanical data		
Weight	[g]	388.6
Dimensions	[mm]	Ø 36.5 / L = 79
Materials		flange: aluminium; housing: steel powder-coated
Max. revolution, mechanical	[U/min]	12000
Max. starting torque	[Nm]	3
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

Remarks	
Remarks	Wires/pins not connected (n.c.) must not be used.

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

