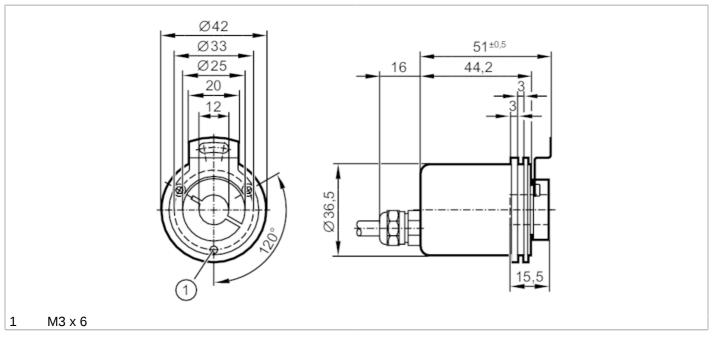
RM8003

Absolute multiturn encoder with solid shaft

RMS4096-S24/L2U





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Product characteristics			
Resolution		4096 resolution; 4096 revolutions; 24 bit	
Communication interface		SSI data interface	
Shaft design		hollow shaft open to one side	
Shaft diameter	[mm]	12	
Application			
Function principle		absolute	
Revolution type		multiturn	
Electrical data			
Operating voltage [V]		4.530 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; 4096 revolutions; 24 bit	
Interfaces			
Communication interface		SSI data interface	
Operating conditions			
Ambient temperature	[°C]	-4085	
Max. relative air humidity	[%]	98	
Protection		IP 65; (on the housing: IP 65; on the shaft: IP 64)	

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Tests / approvals					
Shock resistance			< 300 g (6 ms)		
Vibration resistance			30 g (101000 Hz)		
MTTF	[years]	381			
Mechanical data					
Weight	[g]	336.5			
Dimensions	[mm]	Ø 36.5 / L = 67			
Material		flange: aluminum; housing: steel powder-coated			
Max. revolution, mechanical [U/min]		12000			
Max. starting torque [Nm]		3			
Reference temperature torque	[°C]	25			
Shaft design		hollow shaft open to one side			
Shaft diameter	[mm]	12			
Shaft material		steel			
Max. shaft load axial (at the shaft end) [N]		40			
Max. shaft load radial (at the shaft end)	[N]	1:	10		
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 U	sensor Ub				
green clock	clock				
yellow clock (inv	clock (inv.)				
grey data	data				
pink data (inv.	data (inv.)				
blue reset to z	reset to zero				
red reversal o	reversal of direction of rotation				
screen housing	housing				

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