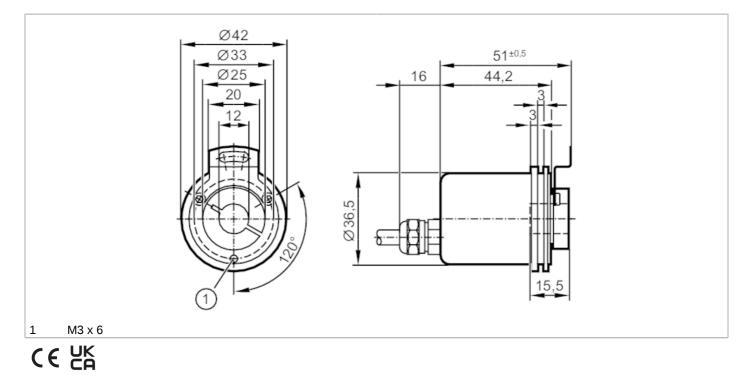
RM8003

Absolute multiturn encoder with hollow shaft



RMS4096-S24/L2U



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 [ye	ars]	350		
Mechanical data				
Weight	[g]	336.5		
Dimensions [r	mm]	Ø 36.5 / L = 67		
Material		flange: aluminum; housing: steel powder-coated		
Max. revolution, mechanical [U/r	min]	12000		
Max. starting torque [I	Nm]	3		
Reference temperature torque	[°C]	25		
Shaft design		hollow shaft open to one side		
Shaft diameter [r	mm]	12		
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				
green clock yellow clock (inv.)				
grey data				
pink data (inv.)				
blue reset to zero red reversal of direction		of rotation		
red reversal of direction of rotation screen housing				
Diagrams and graphs				
Pulse diagram		<u></u>		
		1 MSB LSB		
		╩┲┼┤╼╾		
	1			
	2	data		