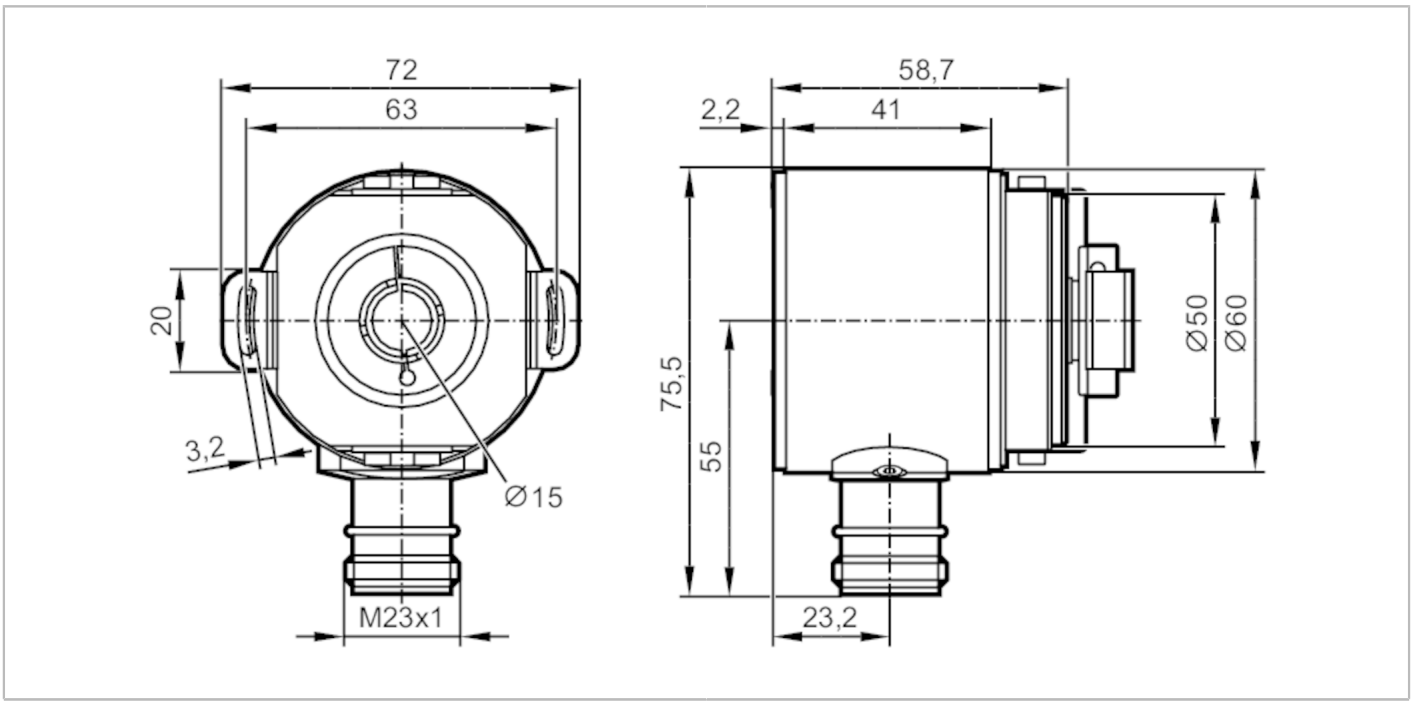
RM6121

Absolute multiturn encoder with solid shaft

RM-8192-S24/S



CE

Application		
Function principle		absolute
Revolution type		multiturn
Electrical data		
Operating voltage	[V]	4.5...30 DC
Reverse polarity protection		yes
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		8192 resolution; 8192 steps; 4096 revolutions; 25 bit
Interfaces		
Communication interface		SSI data interface
Operating conditions		
Ambient temperature	[°C]	-40...85
Storage temperature	[°C]	-40...85
Max. relative air humidity	[%]	98
Protection		IP 64
Tests / approvals		
Shock resistance		100 g (6 ms)
Vibration resistance		20 g (10...2000 Hz)
MTTF	[years]	16

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Mechanical data		
Weight	[g]	197.6
Materials		stainless steel; flange: stainless steel
Max. revolution, mechanical	[U/min]	12000
Shaft design		hollow shaft open to one side
Shaft diameter	[mm]	12
Shaft material		steel (1.4104)
Max. shaft load axial (at the shaft end)	[N]	40
Max. shaft load radial (at the shaft end)	[N]	110

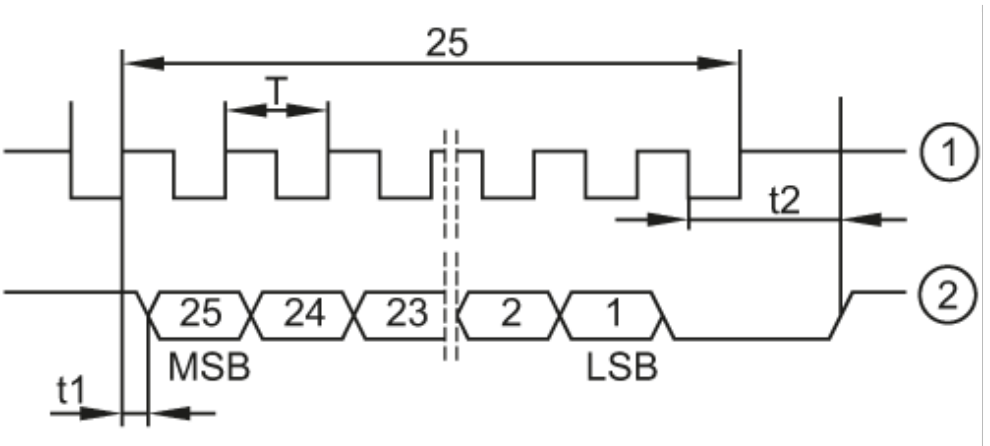
Displays / operating elements		
Display	voltage supply	LED, green
	error	LED, red

Electrical connection

1	clock -
2	clock +
3	data +
4	data -
5	not used
6	not used
7	not used
8	direction of rotation
9	reset to zero
10	not used
11	4.5...30 V UB
12	GND

Diagrams and graphs

Pulse diagram



1 clock

2 data