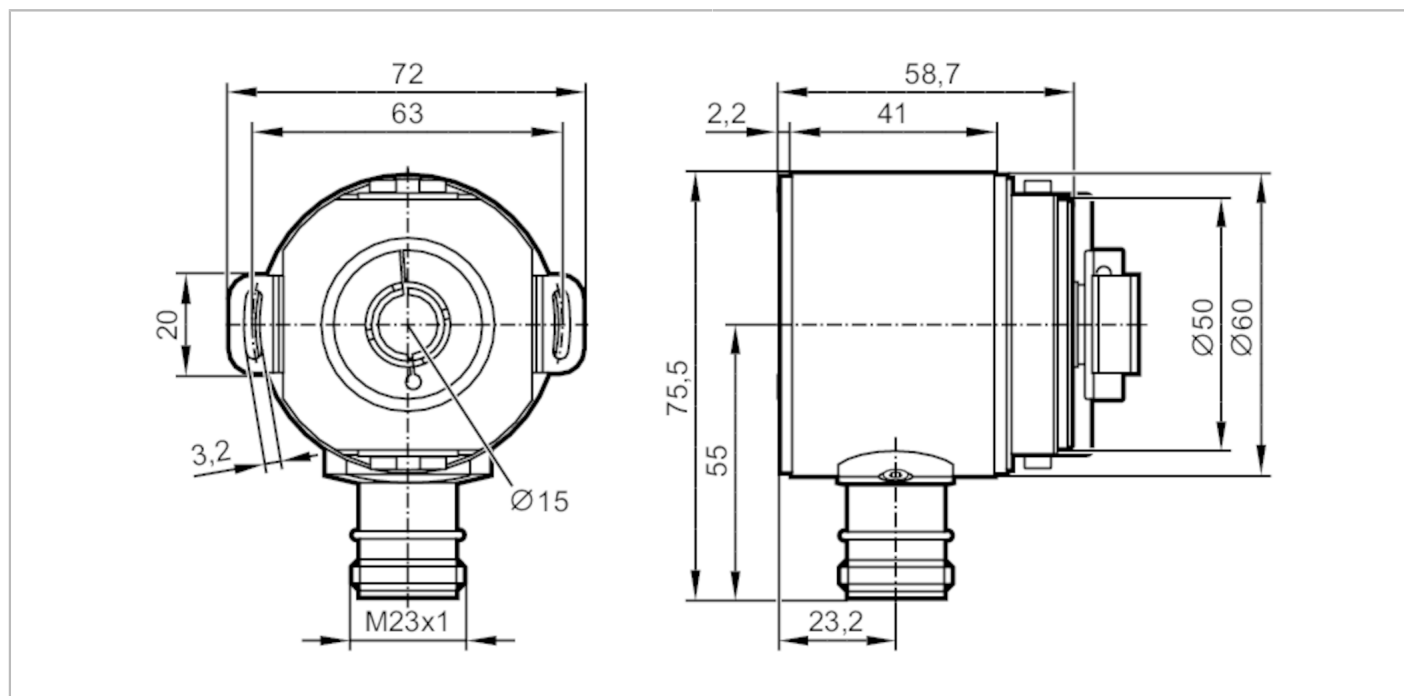


RM6121



Absolute multiturn encoder with hollow shaft

RM-8192-S24/S



Product characteristics

Resolution	8192 resolution; 8192 steps; 4096 revolutions; 25 bit
Communication interface	SSI data interface
Shaft design	hollow shaft open to one side
Shaft diameter [mm]	15

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
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Interfaces

Communication interface	SSI data interface
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Operating conditions

Ambient temperature [°C]	-40...85
Storage temperature [°C]	-40...85
Max. relative air humidity [%]	98
Protection	IP 64

RM6121



Absolute multiturn encoder with hollow shaft

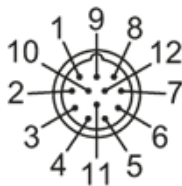
RM-8192-S24/S

Tests / approvals		
Shock resistance		100 g (6 ms)
Vibration resistance		20 g (10...2000 Hz)
MTTF	[years]	16

Mechanical data		
Weight	[g]	774
Materials		stainless steel; flange: stainless steel
Max. revolution, mechanical [U/min]		12000
Shaft design		hollow shaft open to one side
Shaft diameter	[mm]	15
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	power 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

