

RM6103



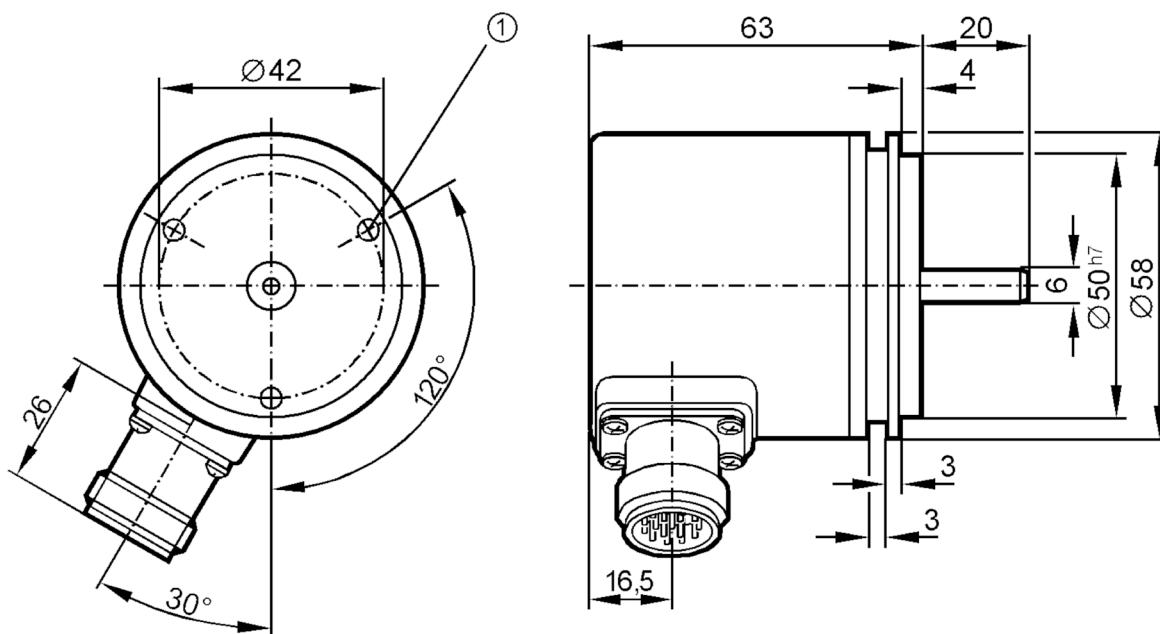
Absolute multiturn encoder with solid shaft

RM-8192-S24/K E

Article no longer available - archive entry

Alternative articles: RM6101

When selecting an alternative article and accessories please note that technical data may differ!



1 M4 Depth 6 mm



Product characteristics

Resolution	8192 steps; 4096 revolutions; 25 bit
Communication interface	SSI data interface
Shaft design	solid shaft
Shaft diameter [mm]	6

Electrical data

Operating voltage [V]	10...30 DC
Current consumption [mA]	< 200
Max. revolution electrical [U/min]	6000

Outputs

Code	Gray code; (increasing code values when turned clockwise (seen on the shaft))
Code signal	data input; TTL-compatible signals; clock and clock (inv.) from drivers to RS 485; data output; synchronous serial; TTL-compatible signals, data, and data (inv.); incremental signals; 2 sinusoidal incremental signals (A and B) ; phase shifted by 90°; 1 Vss 512 signal periods per revolution

Measuring/setting range

Resolution	8192 steps; 4096 revolutions; 25 bit
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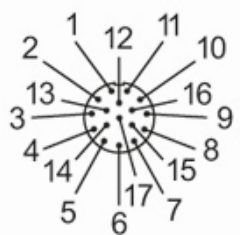
Interfaces

Communication interface	SSI data interface
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Operating conditions		
Ambient temperature	[°C]	-20...85
Storage temperature	[°C]	-30...80
Protection		IP 66
Tests / approvals		
Shock resistance		100 g (6 ms)
Vibration resistance		10 g (55...2000 Hz)
Mechanical data		
Dimensions	[mm]	Ø 58 / L = 83
Materials		aluminium
Max. revolution, mechanical [U/min]		12000
Max. starting torque	[Nm]	1
Reference temperature torque	[°C]	20
Shaft design		solid shaft
Shaft diameter	[mm]	6
Shaft material		steel (1.4104)
Max. shaft load axial (at the shaft end)	[N]	10
Max. shaft load radial (at the shaft end)	[N]	20
Remarks		
Remarks	Wires/pins not connected (n.c.) must not be used.	
Electrical connection		
Connector: 1 x M23 (ifm 1001.11), radial; Maximum cable length: 100 m		
		
1	n.c.	
2	n.c.	
3	n.c.	
4	n.c.	
5	n.c.	
6	n.c.	
7	L+ Up	
8	clock	
9	clock inverted	
10	0v Un	
11	housing	
12	B (+)	
13	B (-)	
14	data	
15	A (+)	
16	A (-)	
17	data inverted	

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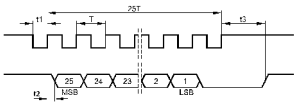


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Diagrams and graphs

Pulse diagram



clock
data