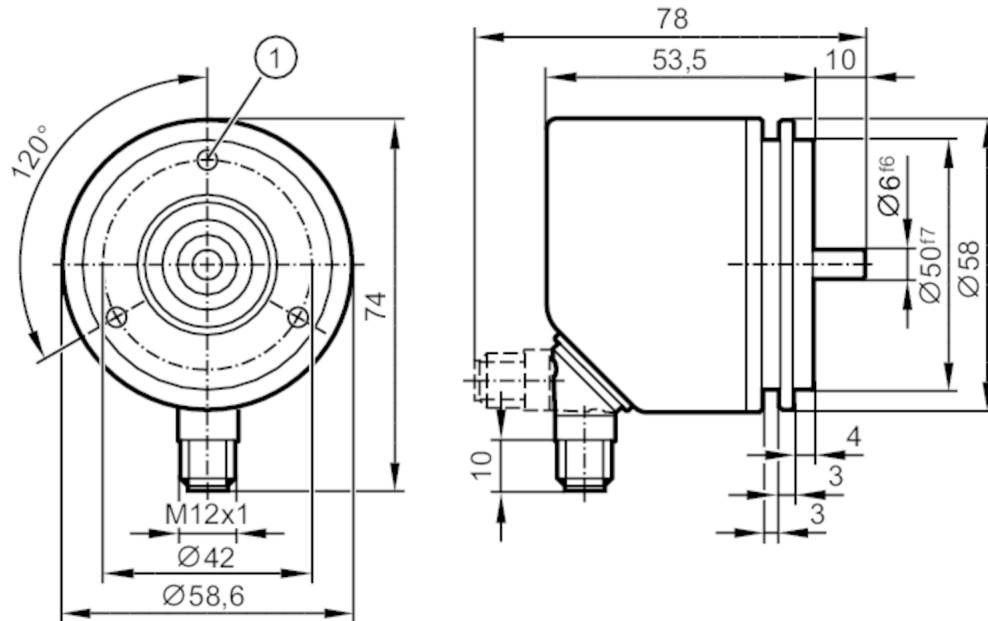


RMU400



Absolute multiturn encoder as 24 bit version

RMU06SVU81212bSSI



1 M4 x 0.7 Depth 6 mm

Product characteristics

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

Application

Function principle	absolute
Detection system	magnetic

Electrical data

Operating voltage [V]	4.5...30 DC
Protection class	III
Reverse polarity protection	yes
Max. power-on delay time [ms]	500
Settling time [ms]	32
Max. revolution electrical [U/min]	12000

Outputs

Short-circuit protection	yes
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	4096 steps; 4096 revolutions
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Accuracy / deviations

Accuracy	±0.1 INL
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Absolute multiturn encoder as 24 bit version

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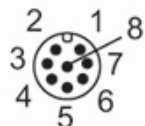
Software / programming		
Parameter setting options		zero point; direction of rotation
Interfaces		
Communication interface		SSI data interface
Operating conditions		
Ambient temperature	[°C]	-40...85
Storage temperature	[°C]	-40...85
Max. relative air humidity	[%]	95; (condensation not permissible)
Protection		IP 65; (on the housing: IP67)
Tests / approvals		
Shock resistance		EN 60068-2-27100 g half-sine / 6 ms
Vibration resistance		EN 60068-2-2910 g half-sine / 16 ms
MTTF	[years]	350
Mechanical data		
Weight	[g]	348.1
Dimensions	[mm]	Ø 58.6 / L = 63.5
Materials		flange: aluminium; housing: stainless steel (444/1.4521)
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		stainless steel
Max. shaft load axial (at the shaft end)	[N]	40
Max. shaft load radial (at the shaft end)	[N]	60
Fixing flange		synchro-flange

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Electrical connection - plug

Connector: 1 x M12, radial, can also be used axially; coding: A; Moulded body: stainless steel (316 / 1.4401); Maximum cable length: 100 m



1	L+
2	clock
3	L-
4	clock (inv.)
5	data
6	data (inv.)
7	reset to zero
8	reversal of direction of rotation
	Screen plug

Diagrams and graphs

Pulse diagram

