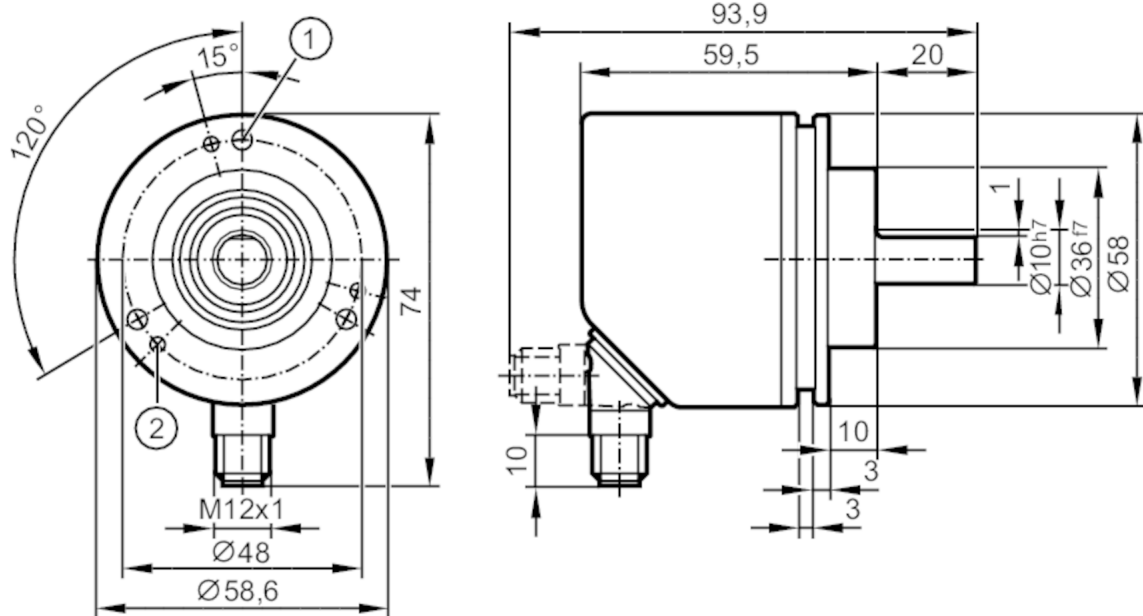




- | | |
|---|---------------------|
| 1 | M4 x 0.7 Depth 6 mm |
| 2 | M3 x 0.5 Depth 6 mm |



Product characteristics

Resolution	1...10000; (parameterisable; Factory setting: 1024) resolution
Communication interface	IO-Link
Shaft design	solid shaft
Shaft diameter [mm]	10

Application

Function principle	incremental
Detection system	magnetic

Electrical data

Operating voltage	[V]	4.75...30 DC
Current consumption	[mA]	< 150
Protection class		III
Reverse polarity protection		yes
Power-on delay time	[s]	0.5
Max. revolution electrical	[U/min]	12000

Outputs

Electrical design	HTL/TTL
Max. current load per output [mA]	50
Switching frequency [kHz]	1000
Factory setting	Output function: HTL (50 mA)
Short-circuit protection	yes
Phase difference A and B [°]	90



Incremental encoder with solid shaft

INCREMENTAL ENCODER

Measuring/setting range		
Resolution	1...10000; (parameterisable; Factory setting: 1024) resolution	
Accuracy / deviations		
Accuracy	[°]	0.1
Software / programming		
Parameter setting options	Resolution; direction of rotation; HTL; TTL	
Interfaces		
Communication interface	IO-Link	
Transmission type	COM2 (38,4 kBaud)	
IO-Link revision	1.1	
Profiles	Smart Sensor - SSP 0	Generic Profiled Sensor
	Function	Device identification
	Function	Process data variable
	Function	Device diagnosis
SIO mode	yes	
Min. process cycle time	[ms]	2.3
Supported DeviceIDs	Type of operation	DeviceID
	default	499
Operating conditions		
Ambient temperature	[°C]	-40...85
Storage temperature	[°C]	-40...85
Max. relative air humidity	[%]	95; (condensation not permissible)
Protection	IP 67; (on the housing: IP 67; on the shaft: IP 67)	
Tests / approvals		
Shock resistance		100 g
Vibration resistance		20 g
MTTF	[years]	292
Mechanical data		
Weight	[g]	591.5
Housing	cylindrical	
Dimensions	[mm]	Ø 58.6 / L = 79.5
Materials	flange: stainless steel (316Ti/1.4571); housing: stainless steel (444/1.4521); NBR	
Max. revolution, mechanical [U/min]	12000	
Max. starting torque	[Nm]	0.01
Reference temperature torque	[°C]	20
Shaft design	solid shaft	
Shaft diameter	[mm]	10
Shaft material	stainless steel (316Ti/1.4571)	
Max. shaft load axial (at the shaft end)	[N]	40
Max. shaft load radial (at the shaft end)	[N]	60
Fixing flange	clamping flange	

RV3110



Incremental encoder with solid shaft

INCREMENTAL ENCODER

Remarks

Pack quantity	1 pcs.
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Electrical connection

Connector: 1 x M12, radial, can also be used axially; coding: A; Moulded body: stainless steel (316 / 1.4401); Maximum cable length: 100 m; (IO-Link: max. 20 m)



IO-Link

1	L+
2	not to be used
3	L-
4	IO-Link
5	not to be used
Screen	plug

encoder

1	UB
2	A
3	GND
4	Z/0-Pulse (90 deg)
5	B
Screen	plug

Diagrams and graphs

Pulse diagram

direction of rotation clockwise (looking at the shaft)