

RV3110



Incremental encoder with solid shaft

INCREMENTAL ENCODER

Measuring/setting range		
Resolution	1...10000; (configurable; 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	tubular	
Dimensions	[mm] Ø 58.6 / L = 79.5	
Material	flange: stainless steel (1.4571/316Ti); housing: stainless steel (1.4521 / 444); 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 (1.4571/316Ti)	
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

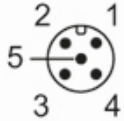
INCREMENTAL ENCODER

Remarks

Pack quantity 1 pcs.

Electrical connection

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



IO-Link

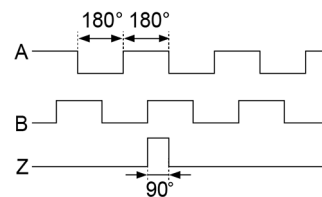
1	L+
2	not to be used
3	L-
4	IO-Link
5	not to be used
screen	plug

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)