

RO3110



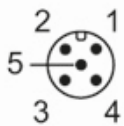
Incremental encoder with hollow shaft

INCREMENTAL ENCODER

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
SIO mode	yes
Min. process cycle time	[ms] 2.3
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] 665
Dimensions	[mm] Ø 58.5
Material	flange: stainless steel (1.4571/316Ti); housing: stainless steel (1.4521 / 444); NBR
Tightening torque	[Nm] < 0.7; (Mounting screw)
Max. revolution, mechanical	[U/min] 12000
Max. starting torque	[Nm] 2
Reference temperature torque	[°C] 20
Shaft design	hollow shaft open to one side
Shaft diameter	[mm] 15
Shaft material	stainless steel (1.4571/316Ti)
Installation depth/shaft	[mm] 27
Max. axial shaft misalignment	[mm] 0,5

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)



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IO-Link

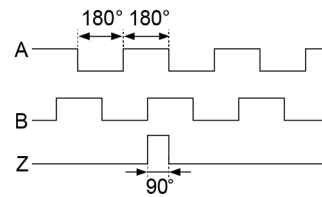
1	L+
2	not to be used
3	L-
4	IO-Link
5	not to be used
screen	plug

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)