

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	COM 2
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; (IP 67: on the housing; IP 67: on the shaft)
Tests / approvals	
Shock resistance	100 g
Vibration resistance	20 g
Mechanical data	
Weight [g]	665
Dimensions [mm]	Ø 58.5
Materials	flange: stainless steel (1.4571/316Ti); housing: stainless steel (1.4521 / 444); plug: stainless steel (1.4401 / 316)
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 of shaft [mm]	27
Max. axial shaft misalignment [mm]	0,5
Electrical connection	
IO-Link	
1	L+
2	not to be used
3	L-
4	IO-Link
5	not to be used
Screen	plug

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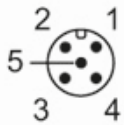
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encoder

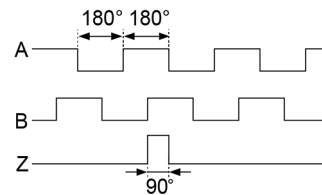
1	UB
2	A
3	GND
4	Z/0-Pulse (90 deg)
5	B
Screen	plug

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



Diagrams and graphs

Pulse diagram



direction of rotation clockwise (looking at the shaft)