



Incremental encoder with solid shaft

INCREMENTAL ENCODER BASIC LINE

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

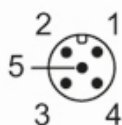
Operating conditions	
Ambient temperature [°C]	-40...85
Storage temperature [°C]	-40...85
Max. relative air humidity [%]	95; (condensation not permissible)
Protection	IP 65; IP 66; (on the housing: IP 67; on the shaft: IP 64)

Tests / approvals	
Shock resistance	100 g
Vibration resistance	20 g
MTTF [years]	292

Mechanical data	
Weight [g]	245
Dimensions [mm]	Ø 36.5 / L = 65
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]	10
Max. shaft load radial (at the shaft end) [N]	20
Fixing flange	Ø 36.5 mm

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)





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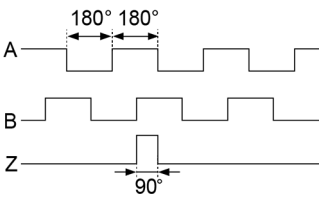
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IO-Link	
1	L+
2	not to be used
3	L-
4	IO-Link
5	not to be used
Screen	plug

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)