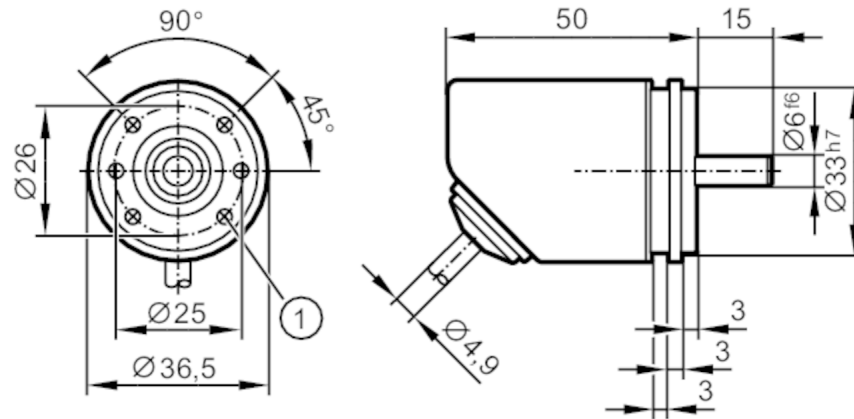




1 M3 x 0.5 Depth 6 mm



Product characteristics

Resolution	1...10000; (configurable; Factory setting: 1024) resolution
Communication interface	IO-Link
Shaft design	solid shaft
Shaft diameter [mm]	6

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
Switching frequency [kHz]	1000
Factory setting	Output function: HTL (50 mA)
Short-circuit protection	yes
Phase difference A und B [°]	90

Measuring/setting range

Resolution	1...10000; (configurable; Factory setting: 1024) resolution
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Accuracy / deviations

Accuracy	[°]	0.1
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Software / programming

Parameter setting options	Resolution; Direction of rotation; HTL; TTL
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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
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 default
		DeviceID 499
Operating conditions		
Ambient temperature	[°C]	-40...80
Note on ambient temperature		for flexibly laid cable: -25 °C
Storage temperature	[°C]	-40...80
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]	293
Housing		tubular
Dimensions	[mm]	Ø 36.5 / L = 65
Material		flange: aluminum; housing: stainless steel (1.4521 / 444); cable plug: PA
Max. revolution, mechanical [U/min]		12000
Max. starting torque	[Nm]	0.01
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]	40
Max. shaft load radial (at the shaft end)	[N]	60
Fixing flange		Ø 36.5 mm
Remarks		
Pack quantity		1 pcs.



Incremental encoder with solid shaft

INCREMENTAL ENCODER BASIC LINE

Electrical connection

Cable: 2 m, Ø 4.9 mm; radial, can also be used axially; 5 x 0.14 mm²

IO-Link

brown	L+
white	not to be used
blue	L-
grey	not to be used
black	IO-Link
screen	housing

encoder

brown	UB
white	A
blue	GND
grey	B
black	Z/0-Pulse (90 deg)
screen	housing

Diagrams and graphs

Pulse diagram

