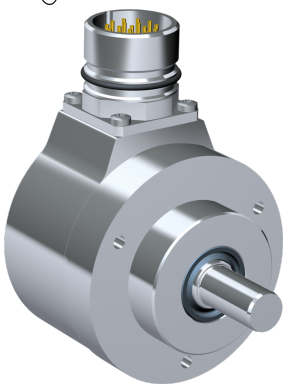
Encoder model

ISA 637

Part number

1152546-01



Inductive Shaft encoder, Absolute

- 58mm diameter
- Extremely robust design
- Shock and vibration protected
- Inductive scanning
- Stainless steel EN 1.4404/AISI 316L

Mechanical data

Operating temperature	-40 °C...+100 °C
Ingress protection class [IEC 60529]	IP 66 and IP 67
Vibration [IEC 60068-2-64]	≤ 300 m/s²
Shock [IEC 60068-2-27]	≤ 2000 m/s²
Shaft load max (axial/radial)	100 / 125 N
Rotational speed max	12000 rpm
Shaft material	Stainless steel
Cover material	Stainless steel A4, AISI 316L/EN 1.4404
Weight	640 g

Encoder configuration

Code key	63732709
Type	ISA
Model	637 Singleturn stainless steel
Shaft type	Ø10 mm round
Flange type	Clamping flange (61sp-type)
Incremental signal resolution	32 ppr 1Vpp (Sinusoidal)
Power supply	5-30 Vdc
Output interface	SSI Binary
Absolute resolution	13 bit singleturn
Connection type	M23 connector 17-pin
Connecting direction	Radial

Electrical data

Polarity protected	Yes
Current consumption (No load)	30 mA at 24 Vdc
Cable length max	Max. 100 m
Absolute accuracy	± 180 arcsec

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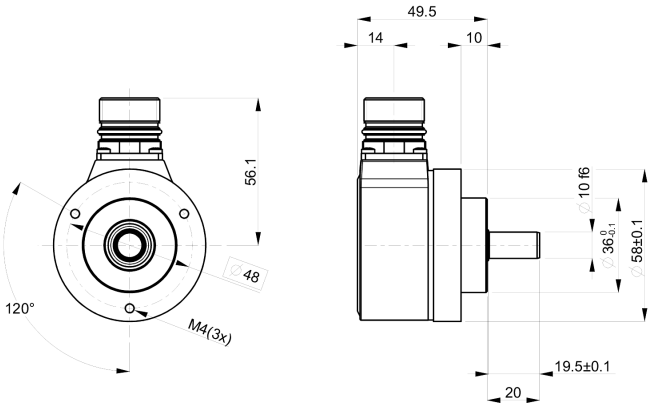
Dimensions

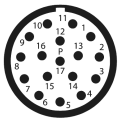


Supported functions

Code sequence- Active high If not connected or connected to 0V the position will increase when the shaft is turned clockwise (CW) seen from the shaft end. If connected to a high logic level the position will increase while turned counter clockwise (CCW). Preset- Active high When connected to a high level for minimum 1ms the position value is set to zero (0)

Pin Configuration

Function	Pin / Colour
0 Volt	10 / White-Green
0V sense	4 / White
+E Volt	7 / Brown-Green
+EV sense	1 / Blue
A	15 / Green-Black
A inverted	16 / Yellow-Black
B	12 / Blue-Black
B inverted	13 / Red-Black
Data	14 / Grey
Data inverted	17 / Pink
Clock	8 / Violett
Clock inverted	9 / Yellow
Code sequence	2 / Black
Zeroset	5 / Green
Note:	**Accessory cable wire colours are different from encoder cable wires**



Order information

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