

Inductive Hollow shaft encoder, Absolute

- Certified according to ATEX and IECEx*
- 78 mm diameter
- 13 bit Singleturn resolution
- Inductive scanning
- Stainless steel A4, EN 1.4404/AISI 316L
- *Please refer to web page for other possible options/performances



Mechanical data

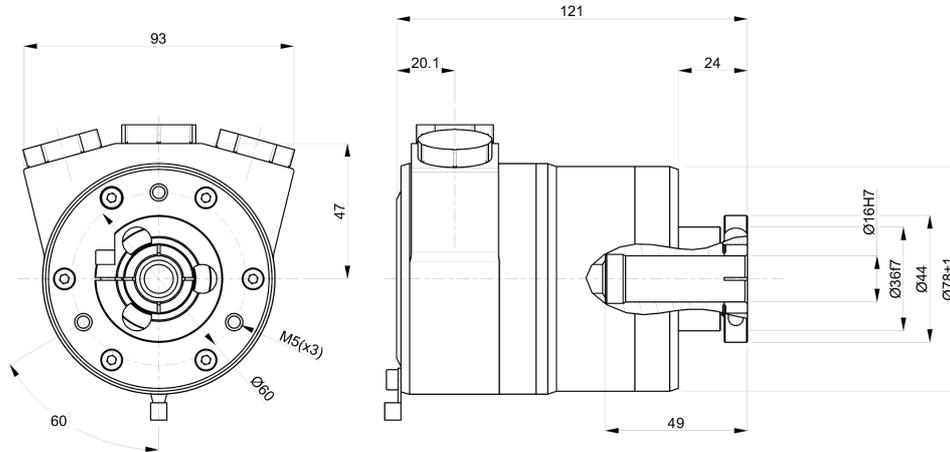
Operating temperature	-40 °C...+50 °C
Ingress protection class [IEC 60529]	IP 66 and IP 67
Vibration [IEC 60068-2-64]	≤ 20 g, 55-2000 Hz
Shock [IEC 60068-2-27]	100 g, 11 ms / 200 g, 6 ms
Shaft load max (axial/radial)	50 / 60 N
Rotational speed max	1600 rpm
Shaft material	Stainless steel A4, AISI 316L/EN 1.4404
Cover material	Stainless steel A4, AISI 316L/EN 1.4404
Weight	3000 g

Encoder configuration

Code key	647160250
Type	IHA
Model	647 Singleturn stainless steel
Shaft type	Ø16 mm blind hollow shaft
Flange type	Clamping flange
Power supply	9-30 Vdc
Output interface	SSI Gray with 1Vpp signals
Absolute resolution	13 bit singleturn
Incremental signal resolution	32 ppr 1Vpp (Sinusoidal)
Connection type	3 x M20 entries for Ex-certified cable glands
Connecting direction	Radial
Certification ATEX	EX II 2G Ex db IIC T6, EX II 2D Ex tb IIIC T85 °C
Certification IECEx	Ex db IIC T6, Ex tb IIIC T85 °C

Electrical data

Polarity protected	Yes
Current consumption (No load)	30 mA at 24 Vdc
Absolute accuracy	± 180 arcsec
Frequency range	100 kHz...1 MHz

Dimensions**Pin Configuration**

Function	Pin
8 Pin	
0 Volt	1
0 V Sense	2
+E Volt	3
+E V Sense	4
Data	5
Data inverted	6
Clock	7
Clock inverted	8
6 Pin	
A+	1
A-	2
B+	3
B-	4
Not used	5
Not used	6

Order information

Part number

1128670-02