

**Inductive Shaft encoder, Absolute**

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

**Encoder configuration**

Code key description	648100160
Type	ISA
Model	648 Multiturn stainless steel
Shaft type	Ø10 mm with partial flat
Flange type	Synchro flange
Power supply	9-30 Vdc
Output interface	EnDat 2.2 with additional 1Vpp signals
Absolute resolution	31 bit (19 bit singleturn + 12 bit multiturn)
Incremental signal resolution	32 ppr 1Vpp
Connection type	1 x M20 entry for Ex d-certified cable glands
Connecting direction	Radial

Mechanical data

Operating temperature	-40° C.+60° C
Ingress protection class [IEC 60529]	IP67 / IP66 (Encoder body/Shaft inlet)
Vibration [IEC 60068-2-6]	≤ 20 g, 55-2000 Hz
Shock [IEC 60068-2-27]	100 g, 11 ms / 200 g, 6 ms
Shaft load (axial/radial)	50 / 60 N
Rotational speed max	500 rpm
Shaft material	Stainless steel A4, AISI 316L/EN 1.4404
Cover material	Stainless steel A4, AISI 316L/EN 1.4404
Weight	2600 g
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	No
Current consumption	100 mA at 5 Vdc
Absolute accuracy	± 100 arcsec

Pin Configuration

Function	Pin
8 pin	
0 V Sense	1
0 Volt	2
+E Volt	3
+EV Sense	4
Data	5
Data inverted	6
Clock	7
Clock inverted	8
6 Pin	
A+	1
A-	2
B+	3
B-	4

Order information

Part number	1111448-01
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