

**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	648110140
Type	ISA
Model	648 Multiturn stainless steel
Shaft type	Ø11 mm with key nut
Flange type	Synchro flange
Power supply	9-30 Vdc
Output interface	CANopen
Absolute resolution	31 bit (19 bit singleturn + 12 bit multiturn)
Connection type	3 x M20 entries 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	3000 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	Yes
Current consumption	90 mA at 24 Vdc
Absolute accuracy	± 100 arcsec
Supported profile	Encoder profile DS406 v.3,2
Node adress	Settable via DIP switches, 0...99
Baud rate	Settable via switch, max. 1 Mbit/s

## Supported functions

Preset, Scaling, Code sequence, Velocity, Acceleration, PDO mapping, Heartbeat, Node Guarding

## Pin Configuration

Function	Terminal
+E Volt	1 (+)
0 Volt	2 (-)
CAN_H	3 (H)
CAN_L	4 (L)
CAN_GND	5 (G)
CAN_GND	6 (G)
CAN_L	7 (L)
CAN_H	8 (H)

## Order information

Part number	1128707-01
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