**Inductive Shaft encoder, Absolute**

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

**Encoder configuration**

Type	ISA
Model	638 Multiturn stainless steel
Shaft type	Ø10 mm shaft with face
Flange type	Clamping flange (61sp-type)
Power supply	9-36 Vdc
Output interface	PROFINET IRT
Absolute resolution	25 bit (13 bit singleturn + 12 bit multiturn)
Connection type	3xM12 connectors
Connecting direction	Radial

**Mechanical data**

Operating temperature	-40 °C...+70 °C
Ingress protection class [IEC 60529]	IP67
Vibration [IEC 60068-2-6]	≤ 300 m/s <sup>2</sup>
Shock [IEC 60068-2-27]	≤ 2000 m/s <sup>2</sup>
Shaft load (axial/radial)	100 / 125 N
Rotational speed max	12000 rpm
Shaft material	Stainless steel (A4, AISI 316L, EN 1.4404)
Cover material	Stainless steel (A4, AISI 316L, EN 1.4404)
Weight	750 g

**Electrical data**

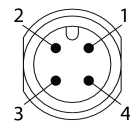
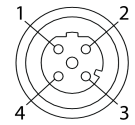
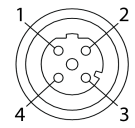
Polarity protected	Yes
Current consumption	100 mA at 24 Vdc
Absolute accuracy	± 180 arcsec
Supported profile	Encoder profile 3.162 v.4.1
Baud rate	100 Mbit/s
IP Adress	Assigned dynamically via DCP

### Supported functions

Preset, Scaling, Code sequence, Isosynchronous mode, I&M functions, Velocity

### Pin Configuration

Function	Pin
<b>4p D-coded M12 (Port 2)</b>	
Tx+	1
Rx+	2
Tx-	3
Rx-	4
<b>4p D-coded M12 (Port 1)</b>	
Tx+	1
Rx+	2
Tx-	3
RX-	4
<b>4p A-coded M12 (Supply)</b>	
+E Volt	1
0 Volt	3



### Order information

Part number	1072404-01
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