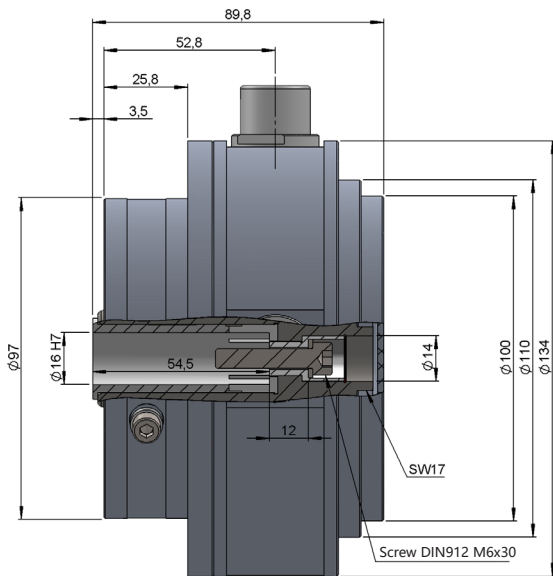
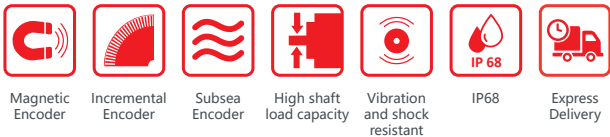




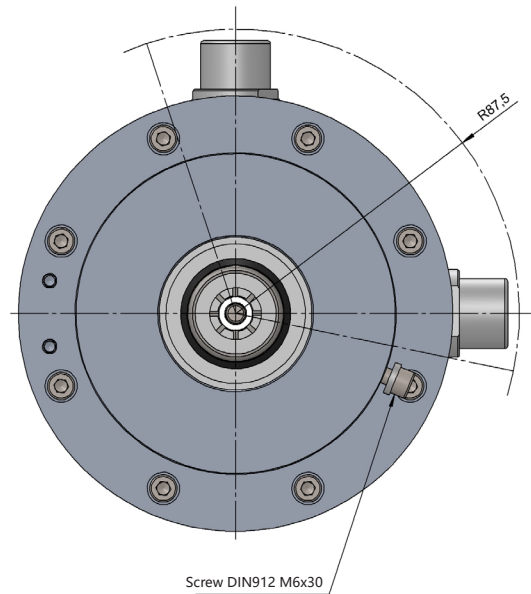
SERIE 130M

INCREMENTAL ENCODER FOR HEAVY DUTY INDUSTRIAL APPLICATIONS

- Resolution up to 2048 pulses per turn
- External diameter 134 mm
- Hollow shaft from Ø 16 to 25 mm
- Isolated shaft
- Protection class IP68 according to DIN EN 60529
- Oil-immersion operation up to 90°C / 10 bar
- HTL and TTL output signals available
- Redundant magnetic sensing
- Solid aluminium housing for high vibration and shock resistance



Drawing hollow shaft type 16, connection type 1



REFERENCE

Reference example: 130M-1-016211-2048

Serie	Immersion type	Anti-rotation system	Hollow shaft	Output signals	Connection	Power Supply / Electronic output	Pulses number	Special customer
130M -	<input type="checkbox"/> -	<input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> -	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
	1. Hydraulic oil	0. None (***)	16. Ø 16 mm Isolated (**)	1. ABZ, \overline{ABZ} 2. Redundant ABZ, \overline{ABZ}	1. Connector 8p IP68 Hermetic sealing	1. 9...30 VDC / HTL 2. 5 VDC $\pm 5\%$ / TTL RS422	(*)	

Order your reference
Step file 3D

info@encoderhohner.com
service available in 24 h

(*) 128, 256, 512, 1024, 2048

(**) Hollow shaft diameter up to 25 mm available, upon request (≤ 20 mm with shaft isolation).

(***) Our engineering department adapts to the specific needs of assembly and anti-rotation systems.

Assembly and disassembly instruction manual available in:
www.encoderhohner.com/product/serie-130m/



SERIE 130M

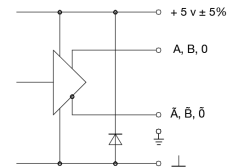
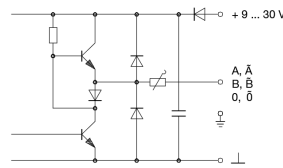
INCREMENTAL ENCODER FOR HEAVY DUTY INDUSTRIAL APPLICATIONS

MECHANICAL SPECIFICATIONS

Materials	Housing: Anodized aluminium 20 µm Shaft: Stainless Steel AISI316
Bearings	Dual set of hybrid bearings with ceramic balls
Immersion type	Hydraulic oil (*)
Shaft fixing	Screw M6x30
Hollow shaft diameter	16 to 25 mm (≤ 20 mm with shaft isolation)
Maximum number of revolutions permitted mechanically	2800 rpm
Protection against dust and splashes according to DIN EN 60529	IP68
Rotor inertia moment	4,7 Kgcm ²
Starting torque at 20°C (68°F)	≈ 0.5 Nm
Maximum load permitted on axial shaft	150 N
Maximum load permitted on radial shaft	200 N
Weight	≈ 2.4 Kg
Operating temperature range	-20°C to +90°C
Vibration according to DIN EN 60068-2-6	150 m/s ² (15g) (10Hz...2000Hz)
Shock according to DIN EN 60068-2-27	2000 m/s ² (12ms)
Maximum pulses per turn	128, 256, 512, 1024, 2048
Connection	Industrial connector 8p (Female contacts) IP68; Hermetic sealing Mating connectors not included

(*) Shell Tellus S2 V 46

OUTPUT SIGNALS



OUTPUT CIRCUIT	HTL	TTL RS422
Reference code	1	2
Power supply	9...30 VDC	5 VDC ± 5%
Consumption (without load)	≤ 90 mA (each system)	≤ 90 mA (each system)
Frequency	100 kHz	100 kHz
Channel A leads (90° electric) channel B, view from the shaft, shaft rotating clockwise		

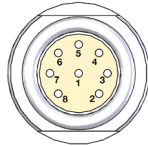
The encoder complies with the Electromagnetic Compatibility standards (EMC):

- > Emission in residential, commercial and light industry environments (UNE-EN 61000-6-3:2007 + A1: 2012).
- > Immunity in industrial environments (UNE-EN 61000-6-2:2006 + ERR:2009).

SERIE 130M

INCREMENTAL ENCODER FOR HEAVY DUTY INDUSTRIAL APPLICATIONS

CONNECTION



	Connector
	Industrial connector 8p (Female contacts) IP68 Hermetic sealing
GND	2
+UB	1
A	7
B	3
\bar{A}	5
\bar{B}	6
Z	4
\bar{Z}	8
Case	Case

ACCESSORIES

(not included)



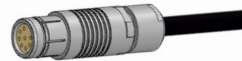
A1

89.060.022.080.00.5
Pre-assembled cable with male connectors (0,5 m)



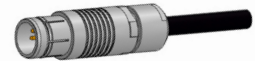
A2

95.0007370
Bulkhead feedthrough connector (Female-Male)



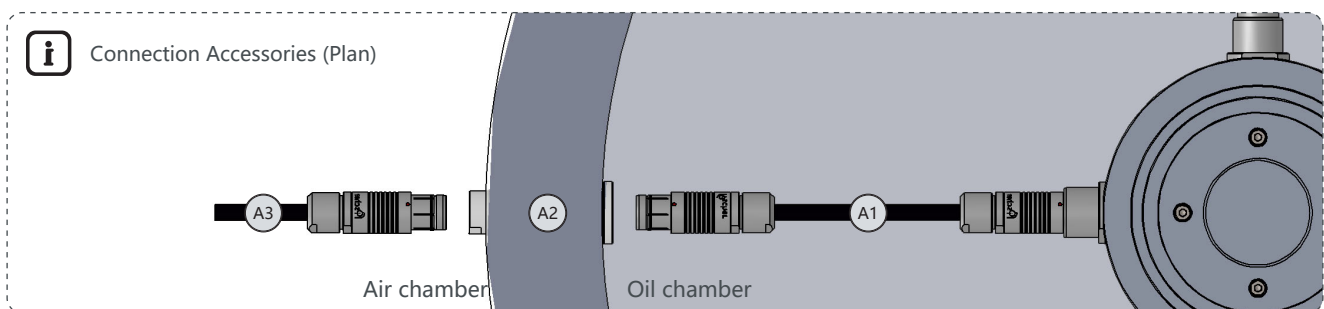
A3

89.061.022.080.00.5
Pre-assembled cable with female connector (0,5 m)



A4

89.084.022.080.XX.X
Pre-assembled cable with male connector



A4 Pre-assembled cable with male connector available, according to specific needs of assembly.