

**Premium absolute hollow shaft encoder**

- 99,5mm diameter
- Extremely robust design
- Shock and vibration protected Inductive scanning
- Hybrid bearings for extended lifetime
- Electrically insulated up to 2.5 kV

**Encoder configuration**

Type	PHE
Model	901
Shaft type	Ø12 mm blind hollow shaft
Flange type	86-flange
Output interface	EtherCAT®
Absolute resolution	35 bit (19 bit singleturn + 16 bit multiturn)
Connection type	3xM12 connectors
Connecting direction	Radial

Mechanical data

Operating temperature	-40 °C...+85 °C
Ingress protection class [IEC 60529]	IP67/IP66 (Encoder body/Shaft inlet)
Vibration [IEC 60068-2-6]	≤ 200 m/s ²
Shock [IEC 60068-2-27]	≤ 1500 m/s ²
Shaft load (axial/radial)	210 N / 420 N
Rotational speed max	6000 rpm
Shaft material	Stainless steel with insulated hybrid bearings
Cover material	Aluminium (anodized)
Weight	1700 g
Torque support	120° degrees torque bracket

Electrical data

Polarity protected	Yes
Current consumption	100 mA at 24 Vdc
Absolute accuracy	± 100 arcsec
Supported profile	CIA DS-406 v.4.0
Baud rate	100 Mbit/s
Cycle time	32.5 us...32 ms, Distributed Clocks (DC)
Power supply	9...36 Vdc

