



- Performance hollow shaft encoder for heavy duty industries
- Hybrid bearings for extended lifetime
- High vibration and shock resistance
- Electrically insulated shaft; up to 2,5 kV



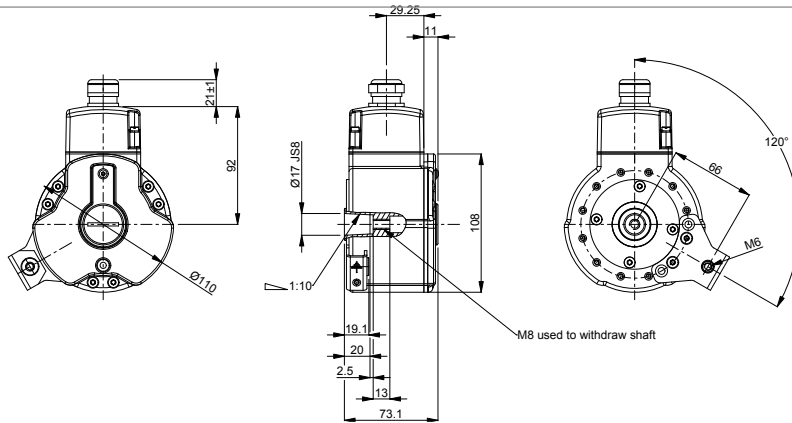
## Technical data

Operating temperature	-40 °C .. +85 °C
Ingress protection class [IEC 60529]	IP67 (IP66 at shaft inlet)
Vibration [IEC 60068-2-6]	≤ 200 m/s <sup>2</sup>
Shock [IEC 60068-2-27]	≤ 1500 m/s <sup>2</sup>
Cover material	Aluminium (anodized)
Weight	1400 g
Shaft load (axial/radial)	100 N / 300 N
Rotational speed max	6000 rpm
Shaft material	Stainless steel with insulated hybrid bearings
Short circuit protected	Yes
Polarity protected	Yes
Current consumption	60 mA at 24 Vdc (Max. 80 mA)
Output load	± 40 mA
Output frequency max	200 kHz
Cable length max	100 m at 100 kHz
Channel separation	90° el ± 25° el
Dividing error	±50° el

## Encoder configuration

Type	XHI
Model	801 Extra robust
Shaft type	Ø17 mm taper hollow shaft
Flange type	86-flange
Resolution	2048
Power supply	9-30 Vdc
Output signal	HTL
Connection type	Cable gland
Connecting direction	Radial
Cable gland dimension	M20 for Ø8-11 mm cables
Number of channels	6
Overvoltage protection	Available upon request
Torque support	120 degrees torque bracket
Advanced Diagnostic System	ADS Classic

## Dimensions



## Output signals



## Pin configuration

Function	Pin
+E Volt	K
0 Volt	H
S <sub>ref</sub>	B
S <sub>ref</sub> \	A
S <sub>90</sub>	D
S <sub>90</sub> \	C
S <sub>00</sub>	F
S <sub>00</sub> \	E
Alarm+	L
Alarm-	M
RXD	N
TXD	O
Chassis	G
Shield	Chassis

## Ordering information

Part number

817145-02