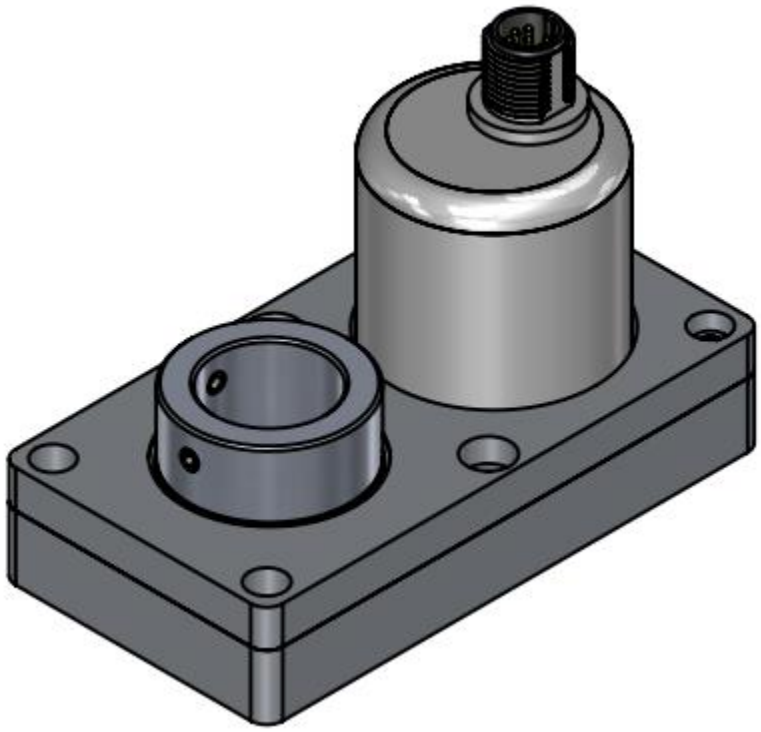
POSITAL UCD-….-H200- Series

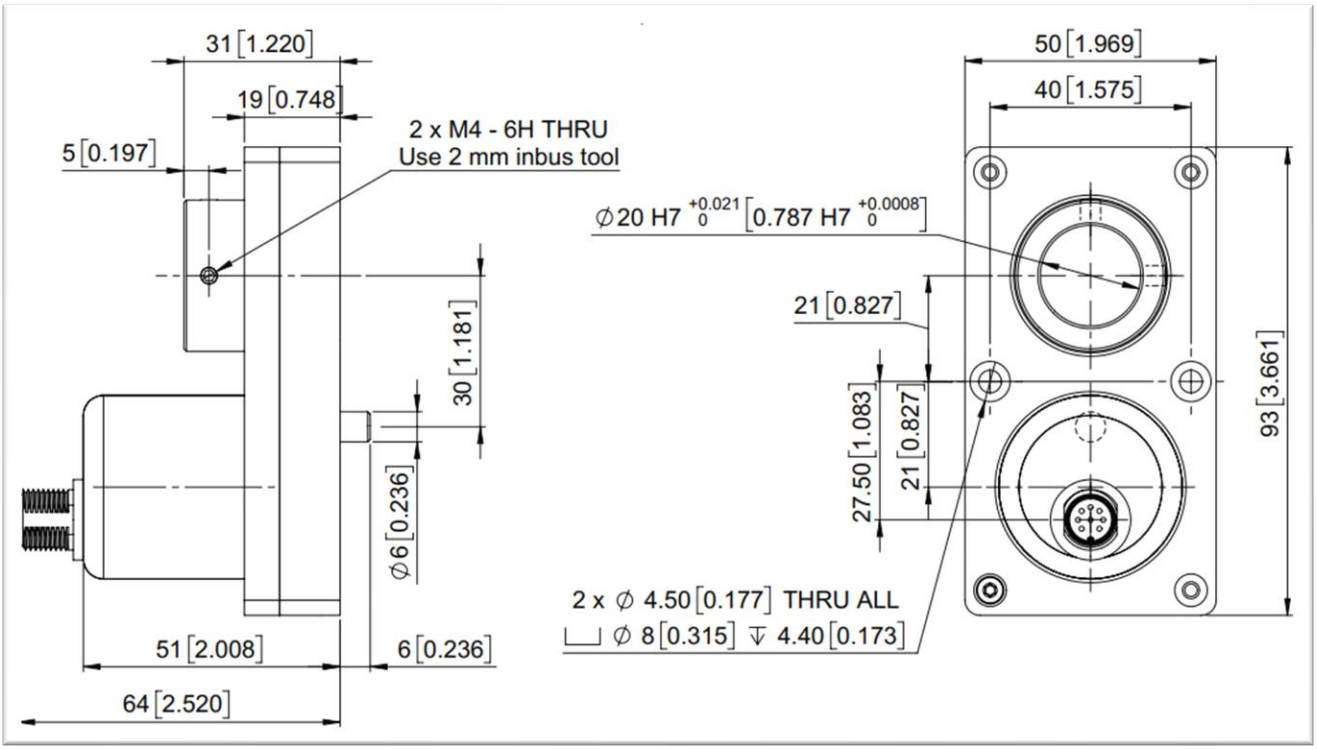


The POSITAL UCD-…-H200 series is a robust, flexible alternative to geared potentiometers such as the GP09. Rather than relying on a contact-based potentiometer, the H200 uses an internal non-contact based Hall-effect sensor. This provides not only more reliable readings, but the flexibility to scale the output range during installation via the SET 1 and SET 2 pins/wires or integrated pushbuttons featuring LED feedback. Offering analog voltage and current (4-20mA), SSI, MODBUS RTU, CANopen and incremental interfaces, it is an easy way to upgrade existing machinery to modern control systems. Through-hole shafts up to 20mm in diameter can easily be accommodated. A variety of connector and cable exit options are available and can be specified by the customer.

Electrical Data	
Supply Voltage	8 – 32 VDC Analog/ CANopen, 5V-32V SSI
Start-Up Time	<500 ms
Max Load Resistance	500 Ω
Analog Accuracy	@ 20 mA = ±20 µA (with an ideal power supply)
Linearity	0.15%
Settling Time	32 ms (from min value to max value jump)
Reverse Polarity Protection	Yes
Short Circuit Protection	Yes
EMC: Emitted Interference	DIN EN 61000-6-4
EMC: Noise Immunity	DIN EN 61000-6-2
MTTF	240.8 years @ 40 °C

Sensor	
Technology	Magnetic
Resolution Singleturn	13 bit Analog, digital up to 16 bit
Resolution Multiturn	Up to 12 bit
Multiturn Technology	Self powered magnetic pulse counter (no battery, no gear)
Accuracy (INL)	±0.0878° (≤ 12 bit)

Environmental Specifications	
Protection Class (Shaft)	IP65
Protection Class (Housing)	IP65
Operating Temperature	-40 °C (-40 °F) - +85 °C (+185 °F)
Humidity	98% RH, no condensation


31 [1.220]
19 [0.748]
5 [0.197]
2 x M4 - 6H THRU
Use 2 mm inbus tool
30 [1.181]
Ø6 [0.236]
51 [2.008]
6 [0.236]
64 [2.520]
50 [1.969]
40 [1.575]
Ø20 H7 +0.021 0 [0.787 H7 +0.0008 0]
21 [0.827]
27.50 [1.083]
21 [0.827]
93 [3.661]
2 x Ø 4.50 [0.177] THRU ALL
⌴ Ø 8 [0.315] ↧ 4.40 [0.173]