

Absolute Hall Effect Encoders

SSI Output



EHE322

Size 22 mm
Hall Effect

Cable shielded 6 wires

AWG 24 L : 1000 mm

Electrical Specifications

Measurement range	360°
Supply voltage	+5 ± 0,25 Vdc
Maximum supply current	< 13 mA
Power-on settlement time	< 0,150 s
Resolution (Factory programmed)	12 to 16 bits
Non-linearity	± 0,75°
Temperature coefficient	< 50 ppm/°C
Hysteresis (Factory programmed)	0,02° min
Sample rate	10 KHz
Input/output delay (Factory programmed)	0,6 ms < td < 1,8 ms
Insulation resistance	≥ 1000 MΩ - 500 Vdc
Dielectric withstanding voltage	750 Veff (50 Hz 1min)

Mechanical Specifications

Mechanical angle	360°
Operating torque	IP54 ≤ 30 cN.cm IP64 & IP67 ≤ 300 cN.cm
Max rotating speed	6000 rpm
Weight	< 100 gr
Mounting	See drawing

For any further information, please contact our sales department :



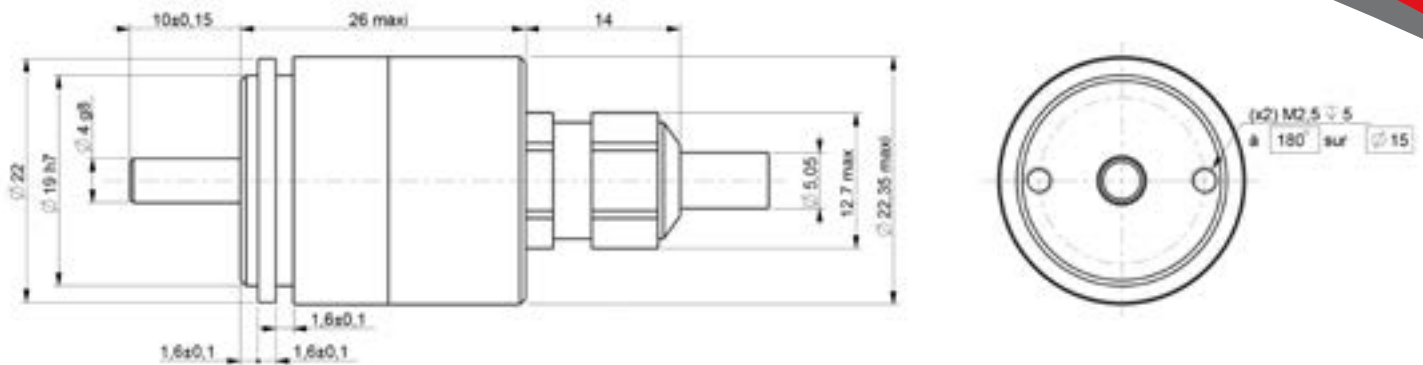
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EHE322
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Drawing



Environment

Protection class	IP54-IP64-IP67
Life contactless sensor	Essentially infinite > 350 millions cycles
Operating & storage temperatures	-40° C to + 85° C
Vibration IEC 68-2-6	20 g max at 50 to 2000 Hz
Shock IEC 68-2-27	50 g 11 ms 1/2 sinus
EMC immunity BS EN 61000-4-3	100 V/m 80MHZ to 1 GHz
Max permitted axial shaft load	20 N
Max permitted radial shaft load	10 N

Options

Output direction for increasing output	Clockwise or anticlockwise shaft rotation (Factory programmed)
Length of cable	L : 2 m
OEM options	On request
Redundancy	On request
Non linearity with external EEPROM	± 0,25°
Operation temperatures with wires	- 55° C to + 150 °C
Shaft diameter	4 to 10 mm
Housing diameter	19 to 36 mm

SSI Output

Data output	RS 422A
Data input	Clock (RS 422A)
Output code	Binary

Timing diagram

Clock H	1 KHz to 2 MHz
Data SS (Factory programmed) + parity	12 to 16 bits

