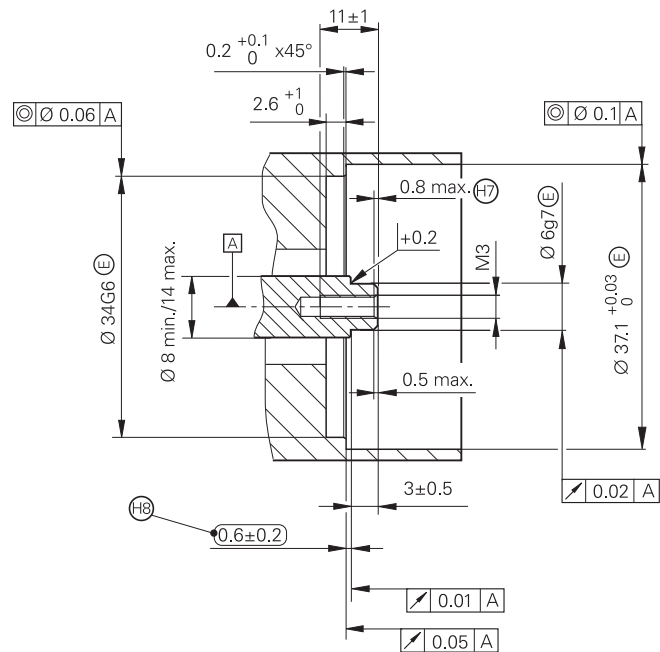
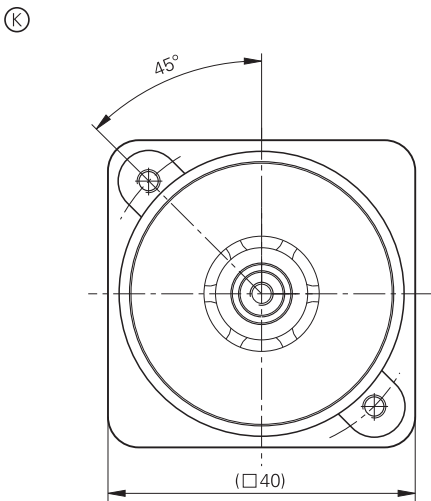
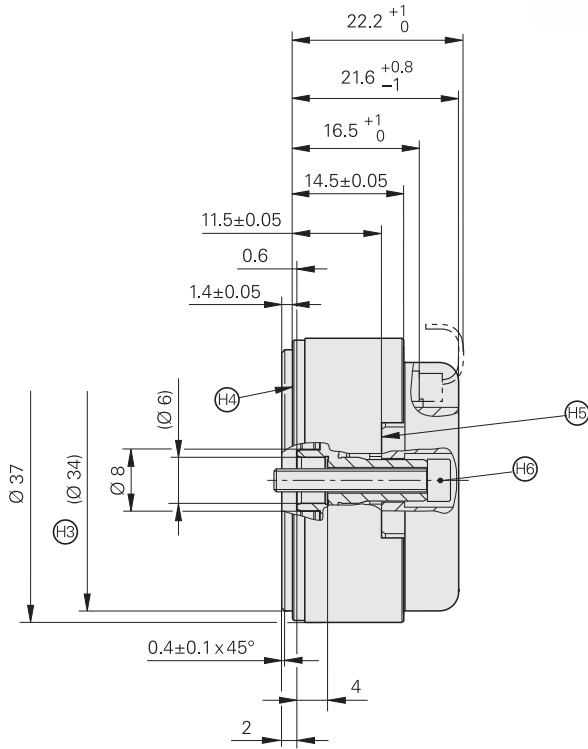
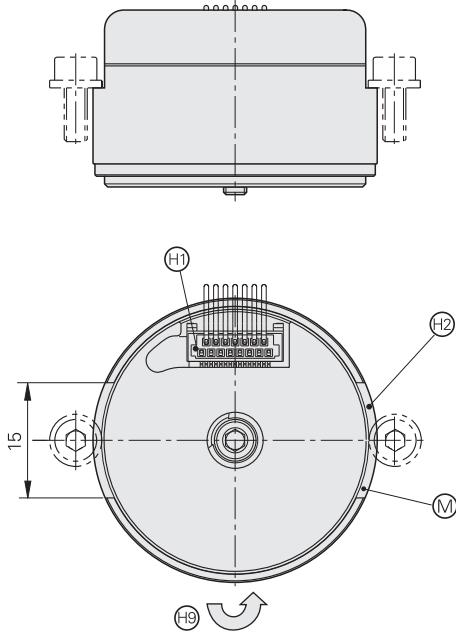


ECI/EQI 1100 Series

Rotary encoders without integral bearing for integration in motors

- Installation diameter 37 mm
- Blind hollow shaft



mm

 Tolerancing ISO 8015
 ISO 2768 - m H
 < 6 mm: ±0.2 mm

- = Bearing of mating shaft
- ⊙ = Required mating dimensions
- Ⓜ = Measuring point for operating temperature
- Ⓢ = PCB connector, 15-pin
- Ⓣ = Permissible surface pressure (material: aluminum 230 N/mm²)
- Ⓤ = Centering collar
- Ⓦ = Bearing surface
- Ⓧ = Clamping surfaces
- Ⓨ = Self-locking screw M3 x 20, ISO 4762, width A/F 2.5, tightening torque: 1.2 ± 0.1 Nm
- Ⓩ = Start of thread
- ⓐ = Maximum permissible deviation between shaft and flange surfaces.
- ⓑ = Compensation of mounting tolerances and thermal expansion, no dynamic motion permitted
- ⓓ = Direction of shaft rotation for output signals as per the interface description

	Absolute			
	ECI 1118		EQI 1130	
Incremental signals	$\sim 1 V_{PP}$	None	$\sim 1 V_{PP}$	None
Line count	16	–	16	–
Cutoff frequency –3 dB	≥ 6 kHz typical	–	≥ 6 kHz typical	–
Absolute position values	EnDat 2.1			
Ordering designation*	EnDat 01	EnDat 21	EnDat 01	EnDat 21
Position values/rev	262 144 (18 bits)			
Revolutions	–		4096 (12 bits)	
Elec. permissible speed/ deviations ¹⁾	4000 min ⁻¹ /± 400 LSB 15000 min ⁻¹ /± 800 LSB	15000 min ⁻¹ (for continuous position value)	4000 min ⁻¹ /± 400 LSB 12000 min ⁻¹ /± 800 LSB	12000 min ⁻¹ (for continuous position value)
Calculation time t_{cal}	$\leq 8 \mu s$			
System accuracy	$\pm 280''$			
Power supply	5 V DC $\pm 5\%$			
Power consumption (maximum)	≤ 0.85 W		≤ 1.00 W	
Current consumption (typical)	120 mA (without load)		145 mA (without load)	
Electrical connection	Via PCB connector, 15-pin			
Shaft	Blind hollow shaft $\varnothing 6$ mm, axial clamping			
Mech. permiss. speed n	≤ 15000 min ⁻¹		≤ 12000 min ⁻¹	
Moment of inertia of rotor	$0.76 \cdot 10^{-6}$ kgm ²			
Permissible axial motion of measured shaft	± 0.2 mm			
Vibration 55 Hz to 2000 Hz Shock 6 ms	≤ 300 m/s ² (EN 60068-2-6) ≤ 1000 m/s ² (EN 60068-2-27)			
Max. operating temp.	115 °C			
Min. operating temp.	–20 °C			
Protection EN 60529	IP 20 when mounted			
Weight	Approx. 0.06 kg			

* Please select when ordering

¹⁾ Velocity-dependent deviation between the absolute and incremental signals

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