

	Absolute			
	RCN 228 RCN 226		RCN 227 F RCN 223 F	RCN 227 M RCN 223 M
<b>Absolute position values</b>	EnDat 2.2	EnDat 2.2	Fanuc serial interface	Mitsubishi high-speed serial interface
Ordering designation*	EnDat 22	EnDat 02	Fanuc 02	Mit 02-4
Positions per revolution	RCN 228: 268 435 456 (28 bits) RCN 226: 67 108 864 (26 bits)		RCN 227: 134 217 728 (27 bits) RCN 223: 8 388 608 (23 bits)	
Elec. permissible speed	≤ 1500 rpm			
Clock frequency	≤ 8 MHz	≤ 2 MHz	-	
Calculation time $t_{cal}$	5 μs		-	
<b>Incremental signals</b>	-	~ 1 V <sub>PP</sub>	-	
Line count	-	16384	-	
Cutoff frequency -3 dB	-	≥ 180 kHz	-	
<b>Recommended meas. step</b> for position capture	0.0001°			
<b>System accuracy*</b>	RCN 228: ± 2.5" RCN 226: ± 5"		RCN 227 F: ± 2.5" RCN 223 F: ± 5"	RCN 227 M: ± 2.5" RCN 223 M: ± 5"
<b>Power supply</b> without load	3.6 V to 5.25 V at encoder/max. 350 mA			
<b>Electrical connection</b>	Cable 1 m, with M12 coupling	Cable 1 m, with M23 coupling	Cable 1 m, with M23 coupling	
<b>Max. cable length<sup>1)</sup></b>	150 m		30 m	25 m
<b>Shaft</b>	Hollow through shaft D= 20 mm			
<b>Mech. permissible speed</b>	≤ 3000 rpm			
<b>Starting torque</b>	≤ 0.08 Nm at 20 °C			
<b>Moment of inertia</b> of rotor	$73 \cdot 10^{-6} \text{ kgm}^2$			
<b>Natural frequency</b>	≥ 1200 Hz			
<b>Permissible axial motion</b> of measured shaft	± 0.1 mm			
<b>Vibration</b> 55 to 2000 Hz <b>Shock</b> 6 ms	≤ 100 m/s <sup>2</sup> (IEC 60068-2-6) ≤ 1000 m/s <sup>2</sup> (IEC 60068-2-27)			
<b>Operating temperature</b>	For accuracy of ± 2.5": 0 to 50 °C For accuracy of ± 5": Moving cable -10 to 70 °C Stationary cable -20 to 70 °C			
<b>Protection</b> IEC 60529	IP 64			
<b>Weight</b>	Approx. 0.8 kg			

\* Please indicate when ordering

<sup>1)</sup>With HEIDENHAIN cable