

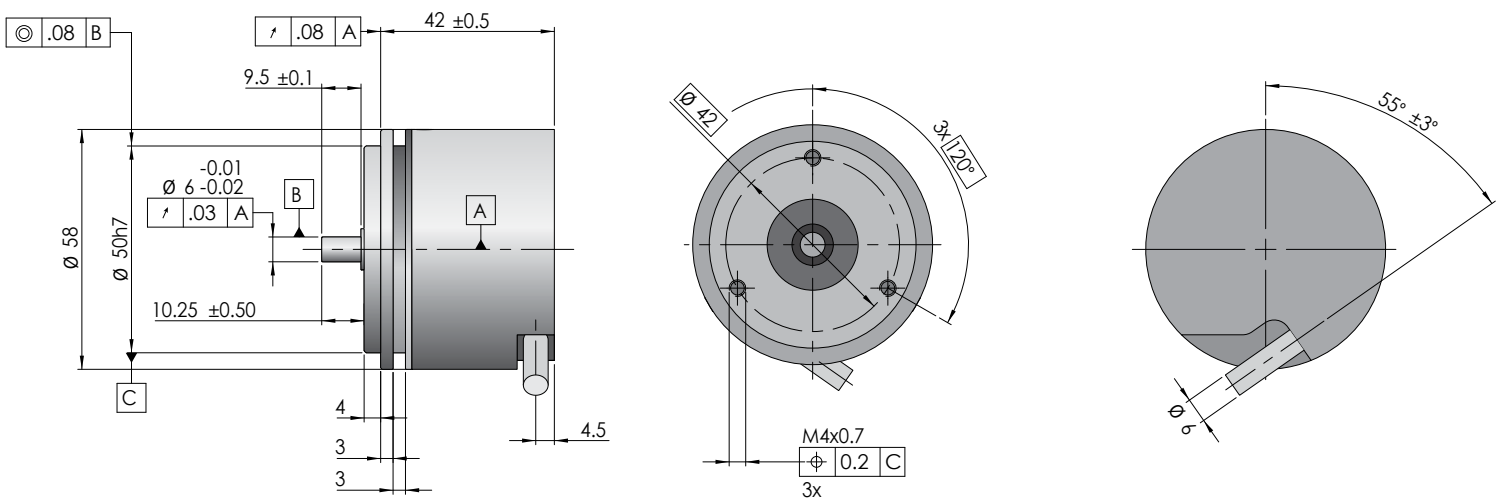
## RSA 58 series



- Absolute position data
- Binary or Gray code output
- Up to 20 bits single turn
- Up to 44 bits multiturn
- Synchro-Flange mounting
- 6mm solid shaft
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### Compatible with:

- Heidenhain ROC 400 Series - ROC 410, ROC 412, ROC 415, ROC 417
- Heidenhain ROQ 400 Series - ROQ 424, ROQ 425



# RSA 58 series

	RSA 5800	RSA 5812	RSA 5816	RSA 5820	RSA 5824
<b>Single turn resolution</b>	10, 12, 13, 16, 18, 20 bits				
<b>Multiturn resolution</b>	N/A	12 bits	16 bits	20 bits	24 bits
<b>Output signal</b>	SSI (option "S") or BiSS (option "i")				
<b>Number of revolutions</b>	1	4096	65,536	~1M	~16.8M
<b>Output code</b>	Gray (Option "G") or binary (Option "B")				
<b>Maximum clock frequency</b>	10 MHz for BiSS, 4 MHz for SSI				
<b>Max. mechanical speed</b>	12,000 RPM				
<b>Scanning accuracy</b>	+/-1 LSB @19bits				
<b>System accuracy</b>	20 arc seconds				
<b>Complimentary output</b>	2048 PPR, 1Vpp				
<b>Max. axial load</b>	1 kg				
<b>Max. radial load</b>	2 kg				
<b>Supply voltage</b>	5 V ± 5%				
<b>Supply current (without load)</b>	≤ 150 mA				
<b>Outlet type</b>	Cable				
<b>Max. cable length</b>	100 m				
<b>Environmental protection</b>	IP64 (IEC 60529)				
<b>Operating temperature range*</b>	-20°C...+70°C				
<b>Storage temperature range</b>	-30°C...+80°C				
<b>Humidity</b>	98% (non-condensing)				
<b>Vibration (55 ÷ 2000 Hz)</b>	≤ 100 m/s <sup>2</sup> (IEC 60068-2-6)				
<b>Shock (6 ms)</b>	≤ 1,000 m/s <sup>2</sup> (IEC 60068-2-27)				
<b>Weight (without cable)</b>	Approx. 0.3 kg (0.7 lb)				
<b>Rotor moment of inertia</b>	≤ 2.5 · 10 <sup>-6</sup> kgm <sup>2</sup>				
<b>Starting torque</b>	≤ 0.01 Nm				

\*for best accuracy, operating outside 0°C...+50°C is not recommended

\*\*combined length from encoder to interpolator box and from the interpolator to controller

How to Order	example: RSA 5800-13GS		
RSA 58XX	-XX	X	X
<b>Model</b>	<b>Resolution</b>	<b>Output Code</b>	<b>Interface</b>
<ul style="list-style-type: none"> <li>• RSA 5800</li> <li>• RSA 5812</li> <li>• RSA 5816</li> <li>• ...</li> </ul>	<ul style="list-style-type: none"> <li>• 10, 12, 13, 16, 18, 20</li> </ul>	<ul style="list-style-type: none"> <li>• G - Gray</li> <li>• B - Binary</li> </ul>	<ul style="list-style-type: none"> <li>• S - SSI</li> <li>• i - BiSS</li> </ul>