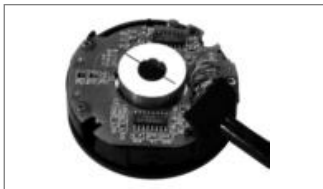


## Motor Feedback - Incremental Types

### AC-Synchronous & BLDC Motors



Type	M 53
<b>Special features</b>	<ul style="list-style-type: none"> <li>■ Modular hollow shaft encoder, ideal for BLDC, DC-Servo and Stepper feedback</li> <li>■ Through hollow shaft Ø 6 ... 12,7 mm</li> <li>■ Incremental + Commutation</li> <li>■ Incremental signals A, B, N and 4, 6 or 8 pole</li> <li>■ Outside diameter 53 mm</li> <li>■ Mounting depth: only 23 mm</li> <li>■ Maximum speed: 12 000 rpm</li> <li>■ Standard Operating temperature: -40 ... +120°C</li> <li>■ Easy installation and alignment</li> </ul>
<b>Technical Data - mechanical</b>	
Housing diameter	53 mm
Mounting depth	22.9 mm
Shaft diameter	6 mm ... 12.7 mm (Hub shaft)
Protection class shaft input	IP50
Protection class housing	with cover: IP50
Max. speed	max. 12 000 rpm
Vibration resistance	25 m/s <sup>2</sup> (5 ... 2000 Hz)
Shock resistance	500 m/s <sup>2</sup> (11 msec)
Operating temperature	-40 °C ... +120 °C
Connection	Shielded cable or dual row connector
<b>Technical Data - electrical</b>	
Supply voltage	DC 5 V or DC 12 V ±10 %
Max. current w/o load	max. 75 mA
Max. pulse frequency	200 kHz
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