



SERIE CM26M

ABSOLUTE MULTITURN MAGNETIC ENCODER

- Mechanically 100% interchangeable with available potentiometers in the market
- System contactless Hall effect which guarantees over 25 million turns of life
- Programmable up to 200 turns
- External diameter 22mm
- Resolution of 12 bits
- Analog output 0...5V o 0...10V
- Easily programmable output range from 10° to 72.000° (200 turns)



The CM26M series enables easy, flexible and perfect adjustment of start and end points of the analog output signal and the sense of rotation direction by the user. Previous assembly and installation reading "Programming Manual CM26M" is recommended. The programming cycle counter is stored in nonvolatile memory so that it can reach up to 10,000 cycles of the encoder's configuration. During the disconnection of the encoder, the shaft can be rotated $\pm 179^\circ$ without losing the value of the absolute position.

MECHANICAL SPECIFICATIONS

| | |
|--------------------------------------|---|
| Mechanical angle | Endless. |
| Maximum RPM | 4000 rpm. |
| Bearing material | Polímero |
| Life time standard | >1x10 ⁶ TURNS (depending on application) |
| Protecction | IP65 |
| Working temperature | -40...+85 °C (fixed installation) |
| Max. torque nut assembly | 1 Nm |
| Material body | Nylon 6.6+30GF |
| Material shaft | Stainless steel |
| Mounting parts (included in product) | Hexagonal nut (14 mm wrench), lock washer |
| Weight | Aprox 20 gr. |
| Strating torque | <0,3 Ncm |

ELECTRICAL SPECIFICATIONS

| | |
|---|---|
| Measuring range (electrical angle) | Minimum 0°-10°; Maximum 0°-72000° (200 turns) |
| To detect the absolute position of the sensor can not be turned more than $\pm 179^\circ$ without voltage | |
| Linearity | $\pm 0.3\%$ (@360°) |
| Resolution (adjusted angle $\geq 360^\circ$) | 12 bits |
| Resolution (adjusted angle $< 360^\circ$) | 4096 pulses x adjusted angle[°] / 360° |
| Updated signal output value | Every 5 ms |
| Maximum number of programming cycles | 10.000 |
| Output signal | 0-5 V; 0-10 V |
| Supply voltage | 16-30 VDC |
| Current input | < 15mA (tip. 5-6 mA) |
| Output load | > 5K Ω |
| Length of cable (other lengths available and cable connectors) | 0.5 m |



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CONNECTION



| | Cable AWG28 RM / 1.27 |
|---|-----------------------|
| GND (Blue) | 1 |
| Output signal | 2 |
| Vcc | 3 |
| Set START (programming cable) | 4 |
| Set END (programming cable) | 5 |
| DIR (rotation change to CCW; programming cable) by default CW | 6 |

REFERENCE

Example of reference: **CM26M-12-72000**

| Serie | Mechanical option | Electronic output | Number of turns (in degrees) | Special execution |
|---------|--|---------------------------------------|--|---|
| CM26M - | <input type="checkbox"/> | <input type="checkbox"/> - | <input type="text" value="7"/> <input type="text" value="2"/> <input type="text" value="0"/> <input type="text" value="0"/> <input type="text" value="0"/> | <input type="checkbox"/> <input type="checkbox"/> |
| | 1. Thread M10x0.75mm. Shaft \varnothing 6 mm. | 1. Analog 0...5V 2. Analog 0...10V | Configurable by the user * From the factory 0... 3600 (10 vueltas) | * To be defined by the manufacturer |

DIMENSIONS

