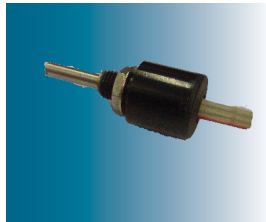


Miniature : I²C Rotary Position Sensor

RotaCol® Miniature type contactless rotary position sensors range are available in plastic and metal housing with 12 mm housing diameter in bush, no shaft flange and servo type. Bushing size : M6X0.75 / 1/4"X32 UNEF / 3/8"X32 TPI with shaft diameters of 3mm / 6mm / 1/4" and 1/8" are available.

I²C interface has bidirectional Master- slave communication. The I²C address is fixed. It is "0x36" or "0110110". With I²C interface, sensor acts as slave and microcontroller is the master. The SDA signal is the bidirectional data line. The SCL signal is the clock generated by the I²C bus master to synchronize sampling data from SDA. The change in the state of SDA from high to low while SCL is high defines the START condition. A change in the state of SDA from low to high while SCL is high defines the STOP condition.

12C M/Z MCB



Interconnection :
4 core flat cable

Link for Datasheet :
www.rotacol.info/12cmmcb.pdf
www.rotacol.info/12czmcb.pdf

Bush Mount : 12mm Ø *Miniline* I²C Rotary Position Sensor

- 12 mm Ø metal housing
- Precision Miniature bushing mount
- I²C : Master- slave communication
- Low cost , Hall effect technology
- Bushing :
Metric M6 X 0.75 (MMCB)
Inch 1/4" X 32 UNEF (ZMCB)
- shaft diameter :
Metric : 3mm (MMCB)
Inch : 1/8" (ZMCB)
- Interconnection :
4 core flat cable 0.15 mtr long

Type

12C M/Z MCB

Electrical angle	0-360°
Supply voltage	3.3V±10% / 5V DC
Output signal	I ² C Bidirectional SDA, always slave transmitter or receiver, NXP UM 10204 Prot., Master initiates data transfer
Resolution steps	4096 (12 bit)
Mech.speed (max)	800 rpm
Elec. speed (max)	800 rpm
Life (rotations)	~ 5 mil. rotations

12C M/Z MCS



Interconnection -
4 core flat cable

Link for Datasheet :
www.rotacol.info/12cmmcs.pdf
www.rotacol.info/12czmcs.pdf

Servo mount : 12mm Ø *Miniline* I²C Rotary Position Sensor

- 12 mm Ø metal housing
- Precision Miniature servo mount
- 2 Precision Ball bearings
- I²C : Master- slave communication.
- Hall effect technology
- Aluminium housing with stainless steel shaft
- Shaft diameter :
Metric : 3mm Ø (MMCS)
Inch : 1/8" Ø (ZMCS)
- Interconnection :
4 core flat cable 0.15 mtr long

Type

12C M/Z MCS

Electrical angle	0-360°
Supply voltage	3.3V±10% / 5V DC
Output signal	I ² C Bidirectional SDA, always slave transmitter or receiver, NXP UM 10204 Prot., Master initiates data transfer
Resolution steps	4096 (12 bit)
Mech.speed (max)	3000 rpm
Elec. speed (max)	800 rpm
Rotary Life	~ 15 mil. rotations

13C M/Z MCB



Interconnection :
Terminal block

Link for Datasheet :
www.rotacol.info/13cmmcb.pdf
www.rotacol.info/13czmcb.pdf

Bush Mount : 12mm Ø *Miniline* I²C Rotary Position Sensor

- 12 mm Ø metal housing
- Precision Miniature bushing mount
- I²C : Master- slave communication
- Low cost , Hall effect technology
- Master slave communication
- Bushing : 3/8" X 32 UNEF (MMCB)
- Shaft diameter :
Metric 6mm (MMCB)
Inch 1/4" (ZMCB)
- Compact size, long life
- Sleeve bearing
- Interconnection : terminal block.

Type

13C M/Z MCB

Electrical angle	0-360°
Supply voltage	3.3V±10% / 5V DC
Output signal	I ² C Bidirectional SDA, always slave transmitter or receiver, NXP UM 10204 Prot., Master initiates data transfer
Resolution steps	16384 (14 bit)
Elec.speed (max)	800 rpm
Life (rotations)	~ 5 mil. rotations

13C MCK

No Shaft Flange : 12mm Ø *Miniline* I²C Rotary Position Sensor



Interconnection - Terminal block

Link for Datasheet :
www.rotacol.info/13cmck.pdf

- 12mm Ø plastic housing
- Miniature type
- Contactless Hall effect technology
- I²C : Master- slave communication
- Magnet on user shaft
- No bearings, no wear, long life
- Blind hole diameter : 9.5mm Ø
- Interconnection : Terminal block

Type

13C MCK

Electrical angle	0-360°
Supply voltage	3.3V±10% / 5V DC
Output signal	I ² C Bidirectional SDA, always slave transmitter or receiver, NXP UM 10204 Prot., Master initiates data transfer .
Resolution steps	16384 (14 bit)
Elec.speed (max)	800 rpm