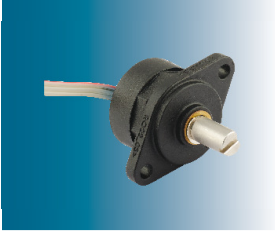


## Flange Mount : SPI Rotary Position Sensor

RotaCol® Flange mount precision contactless SPI interface rotary position sensors range are available in plastic housing with 22, 25, 28 & 30 mm  $\varnothing$  housing diameter. Flange mounting has shaft diameter of 6mm  $\varnothing$ . Mechanical angle is 360° without stop as default version. Flange has polymer sleeve bearing. The Serial Peripheral Interface (SPI) is a bus system for a serial synchronous data transmission between different integrated circuits. The bus consists of a) 3 lines MOSI (Master Out --> Slave In) / MISO (Master In <-- Slave Out)- one common line, SCLK -(Serial Clock, output from master) and SS - Slave Select (active low; output from master) or b) 4 lines MOSI (Master Out --> Slave In), MISO (Master In <-- Slave Out), SCLK -(Serial Clock, output from master) and SS - Slave Select (active low; output from master). By these signal lines the master selects the slave for communication. With supply voltage of 5V  $\pm$ 10% output signal of SPI is provided. Dual channel SPI output is also available. Full duplex with 4 wire or half duplex with 3 wire are available.

### 22P ERCF



Interconnection - Flat cable

[Link for Datasheet :](http://www.rotacol.info/22percf.pdf)  
[www.rotacol.info/22percf.pdf](http://www.rotacol.info/22percf.pdf)

### Flange Mount : 22mm $\varnothing$ *Ecoline* SPI Rotary Position Sensor

- 22mm  $\varnothing$  plastic housing
- Hall CMOS technology
- SPI output - 3 wire
- Shaft diameter : 6mm  $\varnothing$
- Mechanical angle : 360° without stop
- Stainless steel shaft
- Polymer bearing
- Shock and vibration proof
- Interconnection :  
5 core flat cable 0.15 mtr long

#### Type

#### 22P ERCF

Electrical angle	0 - 360°
Supply voltage	5V $\pm$ 10%
Output signal	Absolute SPI - (3 wire) Single/dual channel
Resolution steps	16383 (14 bit)
Mech.speed (max)	3000 rpm
Elec. speed (max)	800 rpm
Life (Rotations)	~ 15 mil. rotations

### 28P ERCF



Interconnection - Flat cable

[Link for Datasheet :](http://www.rotacol.info/28percf.pdf)  
[www.rotacol.info/28percf.pdf](http://www.rotacol.info/28percf.pdf)

### Flange Mount : 28mm $\varnothing$ *Ecoline* SPI Rotary Position Sensor

- 28mm  $\varnothing$  plastic housing
- Hall CMOS technology
- SPI output - 3 wire
- Shaft diameter : 6mm  $\varnothing$
- Mechanical angle : 360° without stop
- Stainless steel shaft
- Polymer bearing
- Shock and vibration proof
- Interconnection :  
5 core flat cable 0.15 mtr long

#### Type

#### 28P ERCF

Electrical angle	0 - 360°
Supply voltage	5V $\pm$ 10%
Output signal	Absolute SPI - (3 wire) Single/dual channel
Resolution steps	16383 (14 bit)
Mech.speed (max)	3000 rpm
Elec. speed (max)	800 rpm
Life (Rotations)	~ 15 mil. rotations

### 25P RSF



Interconnection -  
Mini. push-pull connector

[Link for Datasheet :](http://www.rotacol.info/25prsf.pdf)  
[www.rotacol.info/25prsf.pdf](http://www.rotacol.info/25prsf.pdf)

### Flange Mount : 25mm $\varnothing$ *RS Speed Connect* SPI Rotary Position Sensor

- 25mm  $\varnothing$  plastic housing
- Hall CMOS technology
- SPI output - 3 wire
- Shaft diameter : 6mm  $\varnothing$
- Mechanical angle : 360° without stop
- Stainless steel shaft
- polymer bearing
- Shock and vibration proof
- Interconnection : cable gland (OCG),  
Miniature push-pull connector (OCM),  
terminal block axial (OCTA) / radial (OCTR)

#### Type

#### 25P RSF

Electrical angle	0 - 360°
Supply voltage	5V $\pm$ 10%
Output signal	Absolute SPI - (3 wire) Single / dual channel
Resolution Steps	16383 (14 bit)
Mech.speed (max.)	3000 rpm
Elec. speed (max.)	800 rpm
Life (rotations)	~ 15 mil rotations

## 30P RSF

## Flange Mount : 30mm Ø *RS Speed Connect* SPI Rotary Position Sensor



Interconnection - terminal block

**Link for Datasheet :**  
[www.rotacol.info/30prsf.pdf](http://www.rotacol.info/30prsf.pdf)

- 30mm Ø plastic housing
- Hall CMOS technology
- SPI output - 3 wire
- Shaft diameter : 6mm Ø
- Mechanical angle : 360° without stop
- Stainless steel shaft
- polymer bearing
- Shock and vibration proof
- Interconnection : cable gland (OCG), Miniature push-pull connector (OCM), terminal block axial (OCTA) / radial (OCTR)

### Type **30P RSF**

Electrical angle	0 - 360°
Supply voltage	5V ± 10%
Output signal	Absolute SPI - (3 wire) Single/dual channel
Resolution Steps	16383 (14 bit)
Mech.speed (max.)	3000 rpm
Elec. speed (max.)	800 rpm
Life (rotations)	~ 15 mil rotations

## 30P LOCF

## Flange Mount : 30mm Ø *Locoline* SPI Rotary Position Sensor



Interconnection : Round Cable with rubber grommet -OCR

**Link for Datasheet :**  
[www.rotacol.info/30plocf.pdf](http://www.rotacol.info/30plocf.pdf)

- 30mm Ø plastic housing
- Low cost
- SPI output - 4 wire
- Shaft diameter : 6mm Ø
- Mechanical angle : 360° without stop continuous type
- Polymer bearings
- Default version with medium torque
- Interconnection : 6 core round cable

### Type **30P LOCF**

Electrical angle	0 - 360°
Supply voltage	3.3V±10% / 5V ± 10%
Output signal	Absolute SPI - (4 wire) 3.3V / 5V Single channel
Resolution steps	16383 (14 bit)
Mech.speed (max.)	3000 rpm
Elec. speed (max.)	800 rpm
Life (rotations)	~ 15 mil. rotations