Heavy Duty: SPI Rotary Position Sensors

RotaCol® Diamondline is the best choice for heavy duty applications. Robust aluminium housing with housing diameters of 40 mm, 50 mm & 58 mm ø are available. Stainless steel shaft with 8 mm ø & 10 mm ø shaft diameters are available. It has two ball bearings. Clamping flange has 3 mounting screws.It also has synchro flange and hollow shaft version. Hollow shaft housing can accomadate 8mm ø shaft diameter. Complex bearings allow the use in construction machines, railways & trucks. The Serial Peripheral Interface (SPI) is a bus system for a serial synchronous data transmission between different integrated circuits. The bus consists of 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). By these signal lines the master selects the slave for communication. With supply voltage of 5V ±10% output signal of SPI is provided. Dual channel SPI output is also available. Half duplex 3 wire is standard

40P DRCW



Interconnection: 5 core round cable with rubber grommet 2.5 mtr

Link for Datasheet: www.rotacol.info/40pdrcw.pdf

Heavy Duty: 40mm ø Diamondline SPI Rotary Position Sensor

Heavy Duty: 50mm ø Diamondline SPI Rotary Position Sensor

Heavy Duty: 50mm Ø Diamondline SPI Rotary Position Sensor

- 40mm ø rugged aluminium housing
- · Clamping flange with 3 mounting screws
- Two ball bearings
- · SPI output 3 wire
- · 360° Mechanical & electrical angle
- 8mm ø shaft diameter
- · Heavy duty applications
- · Stainless steel shaft
- · Interconnection: 5 core round cable 2.5 mtr long with rubber grommet

Туре	40P DRCW
Electrical angle	0 - 360°
Supply voltage	5V ± 10%
Output signal	Absolute SPI - (3 wire) Single/dual channel
Resolution	16383 step (14 bit)
Mech.speed (max)	5000 rpm
Elec. speed (max)	800 rpm
Life rotations	~ 75 mil rotations

50P DRCW

50mm ø rugged aluminium housing

- · Clamping flange with 3 mounting screws • Two ball bearings
- · SPI output 3 wire
- · 360° Mechanical & electrical angle
- · 8mm ø shaft diameter
- · Heavy duty applications
- Stainless steel shaft
- · Interconnection : 5 core round cable 2.5 mtr long with rubber grommet

Туре	50P DRCW
Electrical angle	0 - 360°
Supply voltage	5V ± 10%
Output signal	Absolute SPI - (3 wire) Single/dual channel
Resolution	16383 step (14 bit)
Mech.speed (max)	5000 rpm
Elec. speed (max)	800 rpm
Life rotations	~ 75 mil rotations

Link for Datasheet:

cable with rubber grommet

2.5 mtr

Interconnection: 5 core round

www.rotacol.info/50pdrcw.pdf

50P DRCH

· 50mm ø rugged metal housing · Clamping flange with 2 mounting



- Mounting flange (optional)
- · Two ball bearings

screws

- · SPI output 3 wire
- 360° Mechanical & electrical angle
- · Can accomodate 8mm ø shaft diameter
- Heavy duty applications
- · Interconnection: 5 core round cable 2.5 mtr long with rubber grommet

Туре	50P DRCH
Electrical angle	0 - 360°
Supply voltage	5V ± 10%
Output signal	Absolute SPI - (3 wire) Single/dual channel
Resolution	16383 step (14 bit)
Mech.speed (max)	5000 rpm
Elec. speed (max)	800 rpm
Life rotations	~ 75 mil. rotations



Interconnection: 2.5 mtr round cable with rubbergrommet

Link for Datasheet: www.rotacol.info/50pdrch.pdf

58P DRCW

Interconnection : 5 core round cable with rubber grommet 2.5 mtr

Link for Datasheet : www.rotacol.info/58pdrcw.pdf

Heavy Duty Clamping Flange: 58mm Ø Diamondline SPI Rotary Position Sensor

- 58mmø rugged metal housing
- Clamping flange with 3 mounting screws
- Two ball bearings
- SPI output 3 wire
- 360° Mechanical & electrical angle
- 10mm ø shaft diameter
- · Heavy duty applications
- · Stainless steel shaft
- Interconnection: 5 core round cable
 2.5 mtr long with rubber grommet

Туре	58P DRCW
Electrical angle	0 - 360°
Supply voltage	5V ± 10%
Output signal	Absolute SPI - (3 wire) Single/dual channel
Resolution	16383 step (14 bit)
Mech.speed (max)	5000 rpm
Elec. speed (max)	800 rpm
Life rotations	~ 75 mil. rotations

58P DRCS

Heavy Duty Synchro Flange: 58mm ø Diamondline SPI Rotary Position Sensor



Interconnection: 2.5 mtr round cable

Link for Datasheet : www.rotacol.info/58pdrcs.pdf

- 58mm ø metal housing
- · Synchro flange
- Two ball bearings
- SPI output 3 wire
- 360° Mechanical & electrical angle
- Shaft diameter : 10mm ø
- · Heavy duty applications
- Stainless steel shaft
- Interconnection : 5 core round cable 2.5 mtr long with rubber grommet

Туре	58P DRCS
Electrical angle	0 - 360°
Supply voltage	5V ± 10%
Output signal	Absolute SPI - (3 wire) Single/dual channel
Resolution	16383 step (14 bit)
Mech.speed (max)	5000 rpm
Elec. speed (max)	800 rpm
Life rotations	~ 75 mil. rotations