

## Heavy Duty : Analog Rotary Position Sensor

RotaCol® **Diamondline** is the best choice for heavy duty applications. Robust aluminium housing with housing diameters of 40 mm, 50 mm & 58 mm are available. Stainless steel shaft with 8 mm  $\varnothing$  & 10 mm  $\varnothing$  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 accommodate 8mm  $\varnothing$  shaft diameter. Complex bearings allow the use in construction machines, railways & trucks. For analog output, supply voltages of 5VDC  $\pm$  10% ; 9 - 30 VDC & 15 - 30 VDC and output signals of 0 - 5VDC (ratiometric) ; 0 - 5VDC ; 0 - 10VDC ; 0 - 20 mA & 4 - 20 mA are provided. Single and dual channel outputs for voltage outputs are available. At the output of the sensor a variable voltage is provided proportional to the position of the shaft / axis over a complete angle range of 360° or a subrange.

### 40A DRCW

### Heavy Duty : 40mm $\varnothing$ *Diamondline* Analog Rotary Position Sensor



Interconnection : 2.5 mtr round cable with rubber grommet

[Link for Datasheet :](http://www.rotacol.info/40adrcw.pdf)  
[www.rotacol.info/40adrcw.pdf](http://www.rotacol.info/40adrcw.pdf)

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

Type	40A DRCW
Electrical angle	0° - 20° to 0° - 360° in 1° steps prog. (std 360°)
Supply Voltage	5V $\pm$ 10% / 9-30VDC/ 15-30 VDC
Output signal	0-5V ratiometric; 0-5V ; 0-10V DC Single/dual channel, 0 -20mA; 4-20mA
Resolution	4096 steps(12 bit)
Mech.Speed (max)	5000 rpm
Elec.Speed (max)	160 rpm (std) / 800rpm (option)
Life (rotations)	~ 75 million

### 50A DRCW

### Heavy Duty : 50mm $\varnothing$ *Diamondline* Analog Rotary Position Sensor



Interconnection : 2.5 mtr round cable with rubber grommet

[Link for Datasheet :](http://www.rotacol.info/50adrcw.pdf)  
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- 50mm  $\varnothing$  rugged metal housing
- Clamping flange with 3 mounting screws
- Two ball bearings
- 360° Mechanical & electrical angle
- 8mm  $\varnothing$  shaft diameter
- Heavy duty applications
- Stainless steel shaft
- Interconnection : 3 core round cable 2.5 mtr long with rubber grommet

Type	50A DRCW
Electrical angle	0° - 20° to 0° - 360° in 1° steps prog. (std 360°)
Supply Voltage	5V $\pm$ 10% / 9-30VDC/ 15-30 VDC
Output signal	0-5V ratiometric; 0-5V ; 0-10V DC Single/dual channel, 0 -20mA; 4-20mA
Resolution	4096 steps(12 bit)
Mech.Speed (max)	5000 rpm
Elec.Speed (max)	160 rpm (std) / 800rpm (option)
Life (rotations)	~ 75 million

### 50A DRCH

### Heavy Duty : 50mm $\varnothing$ *Diamondline* Analog Rotary Position Sensor



Interconnection : 3 core round cable with rubber grommet 2.5 mtr

[Link for Datasheet :](http://www.rotacol.info/50adrch.pdf)  
[www.rotacol.info/50adrch.pdf](http://www.rotacol.info/50adrch.pdf)

- 50mm  $\varnothing$  rugged metal housing
- Clamping flange with 2 screws
- Mounting flange (optional)
- Two ball bearings
- 360° Mechanical & electrical angle
- Can accommodate 8mm  $\varnothing$  shaft diameter
- Heavy duty applications
- Interconnection : 3 core round cable 2.5 mtr long with rubber grommet

Type	50A DRCH
Electrical angle	0° - 20° to 0° - 360° in 1° steps prog. (std 360°)
Supply Voltage	5V $\pm$ 10% / 9-30VDC/ 15-30 VDC
Output signal	0-5V ratiometric; 0-5V ; 0-10V DC Single/dual channel, 0 -20mA; 4-20mA
Resolution	4096 steps(12 bit)
Mech.Speed (max)	5000 rpm
Elec. Speed (max)	160 rpm (std) / 800 rpm (option)
Life (rotations)	~ 75 million

## 58A DRCW

## Heavy Duty Clamping Flange : 58mm $\varnothing$ *Diamondline* Analog Rotary Position Sensor



Interconnection : 2.5 mtr round cable

**Link for Datasheet :**  
[www.rotacol.info/58adrcw.pdf](http://www.rotacol.info/58adrcw.pdf)

- 58mm  $\varnothing$  rugged metal housing
- Clamping flange with 3 mounting screws
- Two ball bearings
- 360° Mechanical & electrical angle
- 10mm  $\varnothing$  shaft diameter
- Heavy duty applications
- Stainless steel shaft
- Interconnection : 3 core round cable 2.5 mtr long with rubber grommet

Type	58A DRCW
Electrical angle	0° - 20° to 0° - 360° in 1° steps prog. (std 360°)
Supply Voltage	5V $\pm$ 10% / 9-30VDC/ 15-30 VDC
Output signal	0-5V ratiometric; 0-5V ; 0-10V DC Single/dual channel, 0 -20mA; 4-20mA
Resolution	4096 steps(12 bit)
Mech.Speed (max)	5000 rpm
Elec.Speed (max)	160 rpm (std) / 800rpm (option)
Life (rotations)	~ 75 million

## 58A DRCS

## Heavy Duty Synchro Flange : 58mm $\varnothing$ *Diamondline* Analog Rotary Position Sensor



Interconnection : 2.5 mtr round cable

**Link for Datasheet :**  
[www.rotacol.info/58adracs.pdf](http://www.rotacol.info/58adracs.pdf)

- 58mm  $\varnothing$  rugged metal housing
- Synchro flange with 3 mounting screws
- 360° Mechanical & electrical angle
- 10mm  $\varnothing$  shaft diameter
- Heavy duty applications
- Stainless steel shaft
- Interconnection : 3 core round cable 2.5 mtr long with rubber grommet

Type	58A DRCS
Electrical angle	0° - 20° to 0° - 360° in 1° steps prog. (std 360°)
Supply Voltage	5V $\pm$ 10% / 9-30VDC/ 15-30 VDC
Output signal	0-5V ratiometric; 0-5V ; 0-10V DC Single/dual channel, 0 -20mA; 4-20mA
Resolution	4096 steps(12 bit)
Mech.Speed (max)	5000 rpm
Elec.Speed (max)	160 rpm (std) / 800rpm (option)
Life (rotations)	~ 75 million