

Heavy Duty : SSI 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 \varnothing 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. With the SSI interface the absolute angular position is provided serially and synchronous to a receiving electronic which has an input (PLC indicator etc.) The actual angular position is provided in 2 byte WORD Grey code with 12 bit over 360°. The receiving electronic provides pulse sequences and thus determines the transmission rate. Output signals of 5V SSI, 24V SSI are available.

40Y DRCW

Heavy Duty : 40mm \varnothing Diamondline SSI Rotary Position Sensor



Interconnection : 2.5 mtr round cable with rubber grommet

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

- 40mm \varnothing metal housing
- Two ball bearings
- Heavy duty applications
- Clamping flange with 3 screws
- 360° Mechanical & electrical angle
- Shaft diameter : 8mm \varnothing
- Heavy duty applications
- Stainless steel shaft
- Interconnection : 6 core round cable 2.5 mtr long with rubber grommet

Type **40Y DRCW**

Electrical angle	0 - 360°
Supply voltage	5V \pm 10% / 9-30 VDC
Output signal	5V / 24V SSI
Resolution	4096 steps (12 bit)
Mech. speed (max)	5000 rpm
Elec. speed (max)	1600 rpm
Life rotations	~ 75 mil. rotations.

50Y DRCW

Heavy Duty : 50mm \varnothing Diamondline SSI Rotary Position Sensor



Interconnection : 2.5 mtr round cable with rubber grommet

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

- 50mm \varnothing metal housing
- Two ball bearings
- Clamping flange with 3 screws
- 360° Mechanical & electrical angle
- Shaft diameter : 8mm \varnothing
- Heavy duty applications
- Stainless steel shaft
- Interconnection : 6 core round cable 2.5 mtr long with rubber grommet

Type **50Y DRCW**

Electrical angle	0 - 360°
Supply voltage	5V \pm 10% / 9-30 VDC
Output signal	5V / 24V SSI
Resolution	4096 steps (12 bit)
Mech. speed (max)	5000 rpm
Elec. speed (max)	1600 rpm
Life rotations	~ 75 mil. rotations.

50Y DRCH

Heavy Duty : 50mm \varnothing Diamondline SSI Rotary Position Sensor



Interconnection : 2.5 mtr round cable with rubber grommet

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

- 50mm \varnothing metal housing
- Two ball bearings
- Clamping flange with 2 screws
- Mounting flange (optional)
- 360° Mechanical & electrical angle
- Can accommodate 8mm \varnothing shaft
- Heavy duty applications
- Interconnection : 6 core round cable 2.5 mtr long with rubber grommet

Type **50Y DRCH**

Electrical angle	0 - 360°
Supply voltage	5V \pm 10% / 9-30 VDC
Output signal	5V / 24V SSI
Resolution	4096 steps (12 bit)
Mech. speed (max)	5000 rpm
Elec. speed (max)	1600 rpm
Life rotations	~ 75 mil. rotations.

58Y DRCW

Heavy Duty Clamping Flange : 58 mm \varnothing *Diamondline* SSI Rotary Position Sensor



Interconnection : 2.5 mtr round cable

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

- 58mm \varnothing metal housing
- Two ball bearings
- Clamping flange with 3 screws
- 360° Mechanical & electrical angle
- Shaft diameter : 10mm \varnothing
- Heavy duty applications
- Stainless steel shaft
- Interconnection : 6 core round cable 2.5 mtr long with rubber grommet

Type

58Y DRCW

Electrical angle	0 - 360°
Supply voltage	5V \pm 10% / 9-30 VDC
Output signal	5V / 24V SSI
Resolution	4096 step (12 bit)
Mech.speed (max)	5000 rpm
Elec. speed (max)	1600 rpm
Life rotations	~ 75 mil. rotations

58Y DRCS

Heavy Duty Synchro Flange : 58 mm \varnothing *Diamondline* SSI Rotary Position Sensor



Interconnection : 2.5 mtr round cable

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

- 58mm \varnothing metal housing
- Synchro flange
- 360° Mechanical & electrical angle
- Shaft diameter : 10mm \varnothing
- Heavy duty applications
- Stainless steel shaft
- Interconnection : 6 core round cable 2.5 mtr long with rubber grommet

Type

58Y DRCS

Electrical angle	0 - 360°
Supply voltage	5V \pm 10% / 9-30 VDC
Output signal	5V / 24V SSI
Resolution	4096 step (12 bit)
Mech.speed (max)	5000 rpm
Elec. speed (max)	1600 rpm
Life rotations	~ 75 mil. rotations