

Heavy Duty : PWM 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. PWM as a output is pulse width modulated signal based on constant carrier frequency which defines high to low ratio. The ratio between high & low corresponds to the signal characteristics. Within one period of this frequency the change in duty cycle indicates the angle. Single and dual channel outputs are available.

40W DRCW

Heavy Duty : 40mm \varnothing *Diamondline* PWM Rotary Position Sensor



Interconnection : 2.5 mtr round cable with rubber grommet
[Link for Datasheet :](http://www.rotacol.info/40wdrcw.pdf)
www.rotacol.info/40wdrcw.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	40W DRCW
Electrical angle	0°-20° to 0° - 360° in 1° steps prog. (std 360°)
Supply Voltage	5V \pm 10%
Output signal	PWM Single / dual channel
Resolution	4096 steps(12 bit)
Mech. Speed (max.)	5000 rpm (mech);
Elec. speed (max)	160 rpm
Life (rotations)	~ 75 million

50W DRCW

Heavy Duty : 50mm \varnothing *Diamondline* PWM Rotary Position Sensor



Interconnection : 2.5 mtr round cable with rubber grommet

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

- 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	50W DRCW
Electrical angle	0°-20° to 0° - 360° in 1° steps prog. (std 360°)
Supply Voltage	5V \pm 10%
Output signal	PWM Single / dual channel
Resolution	4096 steps(12 bit)
Mech. Speed (max.)	5000 rpm (mech);
Elec. speed (max)	160 rpm
Life (rotations)	~ 75 million

50W DRCH

Heavy Duty : 50mm \varnothing *Diamondline* PWM Rotary Position Sensor



Interconnection : 3 core round cable with rubber-grommet 2.5 mtr

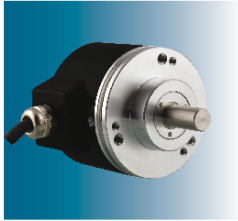
[Link for Datasheet :](http://www.rotacol.info/50wdrch.pdf)
www.rotacol.info/50wdrch.pdf

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

Type	50W DRCH
Electrical angle	0°-20° to 0° - 360° in 1° steps prog. (std 360°)
Supply Voltage	5V \pm 10%
Output signal	PWM Single / dual channel
Resolution	4096 steps(12 bit)
Mech. Speed (max.)	5000 rpm (mech);
Elec. speed (max)	160 rpm
Life (rotations)	~ 75 million

58W DRCW

Heavy duty Clamping Flange : 58 mm \varnothing *Diamondline* PWM Rotary Position Sensor



Interconnection : 2.5 mtr round cable

Link for Datasheet :
www.rotacol.info/58wdrcw.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	58W DRCW
Electrical angle	0°-20° to 0°-360° in 1° steps prog. (std 360°)
Supply voltage	5V \pm 10%
Output signal	PWM Single/dual channel
Resolution	4096 steps (12 bit)
Mech. Speed (max)	5000 rpm
Elec. speed (max)	160 rpm
Life (rotations)	~ 75 million

58W DRCS

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



Interconnection :
2.5 mtr round cable

Link for Datasheet :
www.rotacol.info/58wdrcs.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	58W DRCS
Electrical angle	0°-20° to 0°-360° in 1° steps prog. (std 360°)
Supply voltage	5V \pm 10%
Output signal	PWM Single/dual channel
Resolution	4096 steps (12 bit)
Mech.Speed (max)	5000 rpm
Elec. speed (max)	160 rpm
Life (rotations)	~ 75 million