



**DYNAPAR**

INNOVATION - CUSTOMIZATION - DELIVERY



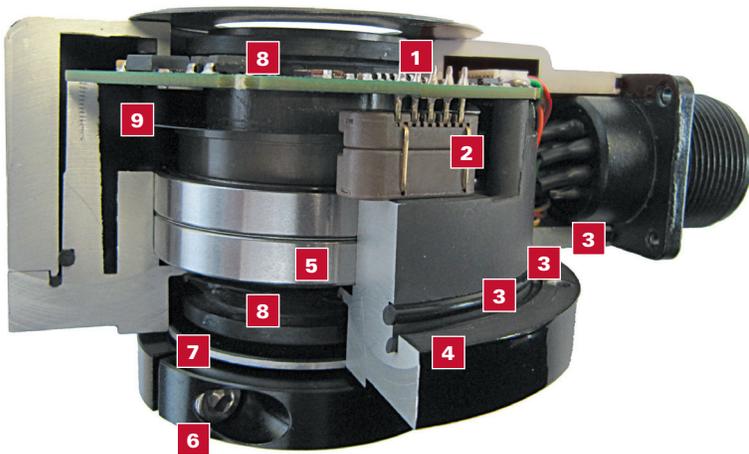
A N N O U N C I N G   T H E   N E W

# HS35R

**THE MOST RUGGED HOLLOW SHAFT ENCODER**

The HS35R is uniquely different from existing encoder solutions in the Vector Motor Industry

# The new HS35R incorporates numerous design upgrades to increase reliability and maximize equipment uptime.



## HS35R NEW FEATURES

- 1** Fewer PCB Components
- 2** Wide Gap Phased Array Sensor Module
- 3** Multiple O-Ring Seals
- 4** Powder Coat Over Hard Anodizing
- 5** Larger Mechanically-Held Bearings
- 6** Dual Split Clamp
- 7** Protective Seal Plate
- 8** Dual V-Seals
- 9** Non-Glass Disk

## HS35R FEATURE-BENEFIT COMAPRISON

FEATURE	BENEFIT
Wide Gap Phased Array sensor increases air gap over 10x compared to traditional mask-on sensor design	More resistant to shock up to 400g
Wide Gap Phased Array sensor eliminates many PCB components including trimpots	Increases lifetime and eliminates signal drift due to time and temperature
Elimination of glass discs in favor of unbreakable disc	Higher reliability in high shock and vibration applications
Larger, mechanically captured bearings instead of adhesive-applied	Increased lifetime and resistance to run-out and wobble
Improved housing and shaft seals provide IP67 protection	More resistant to wash-down and contamination
Increased resolution up to 5000PPR	Able to suit a wider range of applications previously not attainable with HS35
Wide -40° to 100°C optional temperature range	Reliable in extreme temperature applications
More rugged feature-set at the same or lower price as HS35	Greater value and lower total cost of ownership

## TARGET APPLICATION – VECTOR MOTOR FEEDBACK



### COMMON MOTOR CUSTOMER CHALLENGES:

**ISSUE:** Run-out (wobble) is common on non-drive end stub shafts

**OUR SOLUTION:** New design is more resistant to shaft run-out

**ISSUE:** Encoders considered too fragile for the environment

**OUR SOLUTION:** Beefier coating, bearings, and seals make for a tougher design

**ISSUE:** Reliable feedback is required for proper drive speed control

**OUR SOLUTION:** Robust, wide-gap opto-ASIC and simplified PCB improve durability

**ISSUE:** Customers demand fast delivery and expert technical support

**OUR SOLUTION:** Call 1-800-873-8731 for 3-Day lead-times and encoder expertise

For additional information contact Jeff Nemeth at 847-782-5282. or visit our microsite [www.dynapar.com/hs35r](http://www.dynapar.com/hs35r)

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