ANNOUNCING THE NEW

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 FEATURE-BENEFIT COMPARISON

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

### 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

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