

Application Note

1080HD Handlebar Control

1000+ combinations for heavy-duty applications

BACKGROUND

Honeywell Sensing and Control currently offers completely custom right and left hand controls for small vehicles and will continue to do so for those customers who desire it. However, a number of recent trends have prompted us to develop a platform approach to designing customized handlebar controls:

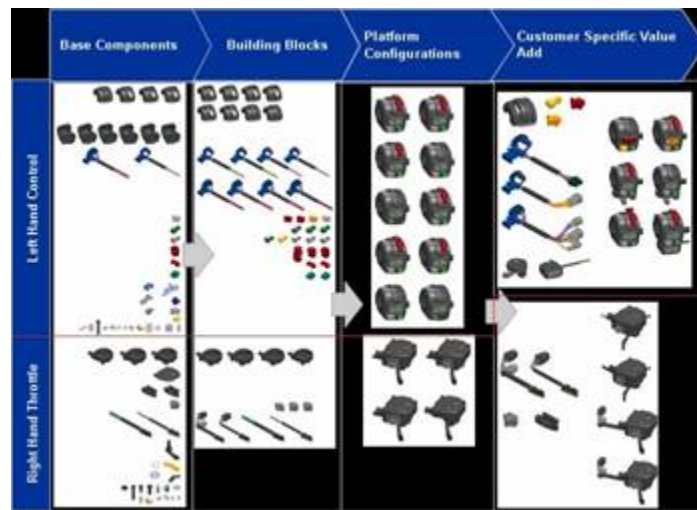
- Customers appear to be maintaining production volumes, but face strong pressure on final product pricing
- Speed to market requirements shorten design cycles
- Aesthetically differentiated handlebar designs by model
- Requirements for compact, high functional density designs that are easily customizable
- Shift from North American manufacturers of ATVs and smaller electrical vehicles to the AP region
- Honeywell small vehicle products still offered in Asia Pacific, North America and Europe

SOLUTION

A platform approach for handlebar control products allows us to produce over 1000 variations of this component, and in a much shorter timeframe than a completely custom approach.

Additionally, to meet customer demand for aesthetic differentiation, we have developed three patent-pending designs that can be applied to the control platform. This is enabled by our small form factor that accommodates 3-7 functions in common housings. The platform (shown below)

consists of base components that can be combined with building blocks and 4-10 different platform configurations. We can then add other customer-specific functions to create a customized right or left-hand control in a cost-efficient, SAE-J68 qualified control to meet global off-road vehicle requirements.



With little up-front investment for the OEM, our platform approach makes it easy to efficiently help our customers facing short product design cycles.

Table 1. 1080HD Handlebar Controls used in off-and-on road vehicle applications

1080HD Handlebar Controls	
<i>Left-Hand control</i>	<i>Right-hand control</i>
 	
Features and Benefits	
<ul style="list-style-type: none"> • Common components and inserted tooling to reduce OEM tooling investment, minimize procurement complexity, and improve manufacturability • Platform approach with common components configurable for multiple applications • Option for runaway prevention switch inclusion enhances safety features • Small form factor with compact, high functional density design • Patent-pending designs enable customers to develop aesthetically differentiated controls • Broad applicability – designed to meet most North American off-road and European on-road requirements • Standard circuitry and components to shorten product development time 	

1080HD Handlebar Controls

WARNING

PERSONAL INJURY

DO NOT USE these products as safety or emergency stop devices or in any other application where failure of the product could result in personal injury.

Failure to comply with these instructions could result in death or serious injury.

WARRANTY/REMEDY

Honeywell warrants goods of its manufacture as being free of defective materials and faulty workmanship. Honeywell's standard product warranty applies unless agreed to otherwise by Honeywell in writing; please refer to your order acknowledgement or consult your local sales office for specific warranty details. If warranted goods are returned to Honeywell during the period of coverage, Honeywell will repair or replace, at its option, without charge those items it finds defective. **The foregoing is buyer's sole remedy and is in lieu of all other warranties, expressed or implied, including those of merchantability and fitness for a particular purpose. In no event shall Honeywell be liable for consequential, special, or indirect damages.**

While we provide application assistance personally, through our literature and the Honeywell web site, it is up to the customer to determine the suitability of the product in the application. Specifications may change without notice. The information we supply is believed to be accurate and reliable as of this printing. We assume no responsibility for its use.

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WARNING

MISUSE OF DOCUMENTATION

- The information presented in this application note is for reference only. Do not use this document as a product installation guide.
- Complete installation, operation, and maintenance information is provided in the instructions supplied with each product.

Failure to comply with these instructions could result in death or serious injury.

SALES AND SERVICE

Honeywell serves its customers through a worldwide network of sales offices, representatives and distributors. For application assistance, current specifications, pricing or name of the nearest Authorized Distributor, contact your local sales office or:

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