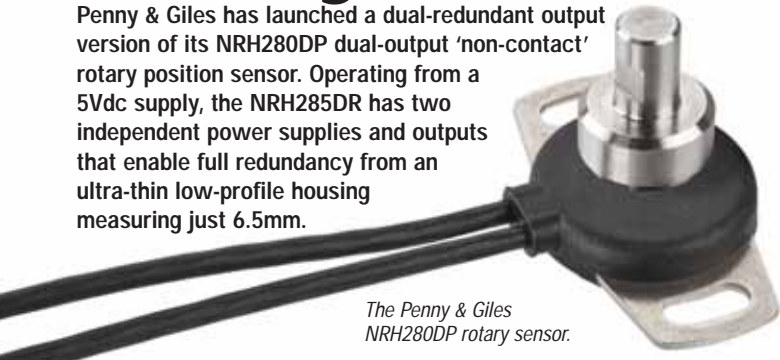


# New dual redundant rotary sensor

Penny & Giles has launched a dual-redundant output version of its NRH280DP dual-output 'non-contact' rotary position sensor. Operating from a 5Vdc supply, the NRH285DR has two independent power supplies and outputs that enable full redundancy from an ultra-thin low-profile housing measuring just 6.5mm.



The Penny & Giles NRH280DP rotary sensor.

The IP69K-rated rotary position sensor provides numerous factory-programmable options and is able to cope with extreme temperatures from - 40 to + 140°C. It can also withstand temperatures up to + 170°C for 72 hours. A separate magnet assembly that activates the fully encapsulated Hall effect sensor also allows it to be used where shocks and vibrations are likely to be present. The NRH285DR provides a wide range of options including measurement ranges from 20 to

360 degrees - available in one degree increments - and clockwise or anticlockwise output direction. The flexibility of the NRH285DR also provides manufacturers with the ability to configure the sensor to suit individual requirements and achieve maximum performance. For example, the sensor can be configured for one signal to be used in a control function while the other can be used for position monitoring or display purposes.

# New high precision battery monitor

Dutch-based manufacturer WhisperPower has launched the Whisper Battery Monitor for mobile battery powered equipment, recreational vehicles, commercial trucks, yachts and commercial vessels. Available in three models, the company says that the new monitors provide accurate monitoring of one or two battery banks, information readouts include precise battery life remaining, ampere hours consumed, current voltage and the percent state of the charge indication. It also features various programmable alarms and is easy to use thanks to full plug & play installation.

The monitor not only provides a readout of current data, but also holds historical data for use in diagnostics. The range consists of three products: the WBM Basic with essential

read-out functions, the WBP Pro, with the capacity to calculate remaining power with a high degree of accuracy and the WBM-Pro HV high voltage unit, designed for electrica propulsion systems.

All units include a large backlit LC display, fully programmable alarm relay, shunt selection capability enabling flexible system integration, a communication/expansion port and internal memory for storing product use history and full plug & play installation.

The company says that the accuracy of the new indicators can save power on hybrid type applications by reducing generator running time. It can also provide advance warning of when a battery is reaching the end of its useful life.



The new Whisper Battery Monitor.



Some examples of Moba's innovative new HM modular control system

# Customised controls for low volume production runs

Overload and electronics manufacturer Moba has announced a new concept of control station that allows manufacturers to create customised controllers quickly and inexpensively even for low production runs such as 'specials'.

The CAN bus-based modules allow the open configuration of graphics, buttons and joystick modules to meet specific customer requirements by combining up to six square modules which can be linked together and to the machine via plug connections. The display screen is available in black and white or as a programmable CoDeSys colour display. In addition, the module is equipped with three freely-programmable soft key buttons and an encoder, which can be attached to the side of the module, to facilitate menu navigation.

The joystick module is available in two versions, one lockable, the other non-lockable and come with a wrist rest rail. The joystick mechanics are contact-free and assembled separately from the electronic part of the controller. This means that the joystick does not penetrate the control panel surface, allowing the mechanical part to be exchanged rapidly and inexpensively in the case of damage, without the need to re-programme. The button module, with up to nine buttons, can be assigned to any function. Customers can also integrate up to four of their own operating and display elements, such as key switches and emergency stop buttons etc...

The modules are contained in robust cast housings, sealed with potting compound to protect the electronic components from dust, moisture and vibration. They also incorporate an additional cover to protect the display from damage. Each module can be controlled separately with CAN-open making the extension of the HMI possible at any time, allowing the manufacturer to react quickly when additional options are requested and individual modules to be easily exchanged.

enquiries

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