



SECURE CONNECTION

Amphenol Industrial, a global leader in interconnect systems, has amended its Traction Motor Power Connector (TMPC) to include a colour-coded power mounting flange with built-in locking keys to prevent the contact cable from slipping during use.

These new single-pin connectors are ideal for power distribution equipment and traction motor power supply applications. Utilising patented RADSOK technology, the TMPC allows for higher amperage, lower T-rise and insertion/removal forces than any other connector on the market. Its increased amperage allows for more current to go through a single connection, increasing the efficiency of the power to the end use application.

The connector's thermoplastic moulded panel mounting flanges have four mounting holes that enable users to bolt the connector directly to an aluminium or stainless steel panel without needing mounting boards, eliminating the need for additional mounting fixtures.

Amphenol Industrial Operations Europe

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SOLUTION TO FAST INCREASING TECHNICAL REQUIREMENTS

Energy chain innovator igus UK has developed a solution to the fast increasing technical requirements of energy chain; specifically those travelling at extreme distances and speed with very heavy cable loads.

Many applications worldwide, such as cranes and conveyors, are already operating with the conventional roller e-chain systems, but naturally over time the demands on these machines increase and the technical limits, including noise reduction, are increasing. P4 rol-e-chain has been designed by igus to fulfil the new challenges that come with extreme travels of energy chain of up to 800 meters.

igus P4 rol e-chain is designed with tribo-optimised plastic rollers, which have been integrated perfectly in between the links of the chain to ensure that the pitch of the energy-chain is even throughout.

igus

01604 677240

www.igus.co.uk



LOW VOLTAGE SWITCHGEAR

Eaton has launched its new Power Xpert CX, an IEC low voltage switchgear with a range up to 4000 amperes (A). Power Xpert CX is compact, ergonomic and flexible and provides reliable motor control and power distribution functionality for industrial and commercial installations.

The innovative design, combined with Eaton's expertise in low voltage applications, brings a new, reliable platform that can be at the heart of any motor control or power distribution system and is especially suitable for applications where the delivery of electrical energy is business critical such as those found in the water, pharmaceutical, food and beverage, infrastructure, pulp and paper, mining and steel industries, as well as industrial facilities and commercial buildings.

Eaton

0161 655 8900

www.eaton.com/cx



CLEAN, AFFORDABLE ENERGY

Practically infinite reliability was the defining requirement when researchers wanted to run a



TorqSense torque transducer under the sea as part of extensive trials of a green energy turbine.

Dependable, affordable energy from tidal streams and ocean currents could soon be a reality, with scale models of the innovative Evopod demonstrating the viability of the oceans as an energy source.

The Evopod employs a fixed pitch turbine driving a permanent magnet generator through a gearbox. Power control and data capture are essential for reliable energy generation. For an effective sensing solution to measure the torque and rotational speed of the turbine, Oceanflow Energy turned to Sensor Technology and its TorqSense torque sensor.

Torque is a critical measurement as it indicates the power that can be derived from the system as well as giving an indication of the stresses on the turbine. But the marine environment and the nature of the turbine's operation places unique performance requirements on the sensing equipment.

Sensor Technology

01869 238400

www.sensors.co.uk/er



SOLAR SITE-SURVEY TOOL

A new high specification instrument combines irradiance measurement with a host of other features to enable solar PV and solar thermal contractors carry out site surveys quickly and easily.

The versatile Seaward Solar Survey 100 uses a precision PV cell sensor for the highly accurate irradiance measurement, displaying results in either Wm-2 or BTU/h/ft2 and making it ideal for both solar PV and solar thermal site installations.

Uniquely, the new multi function unit also incorporates a digital compass, a digital tilt meter and a dual channel precision thermometer.

These special features enable the user to quickly identify the location where maximum levels of solar power can be collected and accurately measure irradiance, roof pitch, orientation and both ambient air and PV module temperature.

The rugged and compact instrument is battery powered and incorporates a display hold feature which enables site readings to be captured in difficult locations.

Seaward Electronic

0191 586 3511

www.sewardsolar.com

HIGH VOLTAGE DC ELECTRONIC LOADS

Telonic Instruments has introduced a new range of high quality multifunctional electronic and evaluation equipment manufactured by Japan based Kikusui. Designated the PLZ-4WH series they are designed primarily for use in the automotive industry with electric vehicles (EV) and hybrid electric vehicles (HEV)

The range supports input voltages up to 650V and is used to evaluate EV and HEV in vehicle chargers, DC/DC converters, battery cells and power supplies for high voltage DC electric supply systems. It is able to operate PFC tests on European and other three phase 400V system input power supplies as well as evaluating and testing high voltage parts relating to such equipment.

This innovative range has six operation modes, constant current, resistance, voltage, power, constant current + constant voltage and constant resistance + constant voltage modes

The range comprises of four models with an operating voltage of 650V and current of 100A with power of 165/1000W. Up to 9kW/450A can be obtained by connecting with the maximum of four PIZ2004WHB boosters.

Telonic

0118 978 6911

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