

# On the level?

Penny + Giles, has launched a new tilt sensor. The compact - just 28mm diameter main body - and competitively priced STT280 features low power consumption and a rugged, IP68 sealed housing, making it ideal for more demanding applications. It has no moving parts and is claimed to have excellent resistance to shock and vibration.

The STT280 measures up to plus or minus 60 degrees, with an output

range from 0.5 to 4.5Vdc over the full inclination angle.

Using proven solid-state technology, the new sensor can be used in hard-wired or battery-powered systems giving OEMs maximum flexibility. The manufacturer claims that the technology in the STT280 provides distinct advantages in reliability, stability and compactness over fluid based, electrolytic and pendulum operated sensors.



# In total control

Devices and systems utilising magnetorheologica (MR) technology from Lord Corporation are already widely used in car suspension systems and in construction/agricultural drivers seats, as well as steer-by-wire operator controls in industrial and marine vehicles.

Thousands of MR equipped vehicles and more than 500,000 MR enabled devices are in use worldwide. Lord is the world's leading supplier of commercial magnetorheological fluid, magnetic devices and systems. The Lord Tactile Feedback Device (TFD) is a cost-effective and design-efficient feedback solution for improving by-wire control and safety. Unlike pure sensing or other types of feedback devices, the TFD produces a continuously variable resistive steering torque, delivering high-fidelity 'feel' and maximum control for the operator.

Available in standard 12 Nm and 5 Nm torque configurations, these devices are ready for immediate integration and evaluation in steer-by-wire design projects.

# No struts or supports

The ability to position and hold doors or other components open without gas struts or mechanical supports, helps to reduce manufacturing costs and differentiate product designs.

The recently expanded line of Cema E6 constant torque position control hinges available from Southco, provides greater torque-control functionality across a range of applications.

Multiple torque ranges, in symmetric and asymmetric configurations, make it easier for designers to satisfy the positioning, and 'feel' requirements of their applications. Cycle testing has shown these models to perform within 20 percent of their nominal torque specification for more than

20,000 cycles, allowing them to provide consistent performance without maintenance, service, or adjustment.

The compact 200 Series hinges feature aluminium construction and provide strong positioning torque in a lightweight package. Larger 400 Series hinges offer even greater strength and positioning torque. Both styles incorporate hardened steel shaft and torque elements and are O-ring sealed for long-lasting durability.

The standard hinges in these two lines are provided with black powder-coated finish, but are also available in other optional finishes. They are rated for an operating temperature range spanning from -20 to 65 degrees C.



# The heat is on

To maximise service life of rolling bearings and steel parts, Schaeffler has developed a range of bearing heaters for mounting bearings onto shafts.

The 'FAG PowerTherm' range of heaters are for bearings and ring-shaped metal components up to 3,000kg in weight. Induction heating is claimed to be superior to traditional methods, being faster, cleaner and ideal for batch heating. Mobile and fixed heaters and heater plates can be used to heat complete rolling bearings, rings of cylindrical roller or needle roller bearings and labyrinth rings, roll couplings and tyres.

Harmful temperature differences are prevented with uniform heating but non-metallic parts - and the device itself - remain cool. During the process, rolling bearing steels are automatically de-magnetised.

Maintenance costs are kept to a minimum using these heater devices. Due to their increased efficiency, the heaters can reduce heating times by up to 50 percent. Also, as the systems do not require oil to operate, they have the added advantage of being both clean and environmentally friendly.



# enquiries →

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Boom length 5.49m



**URW-095**

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Boom length 8.65m



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2.9t x 1.4m  
Boom length 8.65m



**URW-376**

2.9t x 2.5m  
Boom length 14.61m



**URW-506**

3.0t x 3.4m  
Boom length 15.71m



**URW-706**

6.0t x 3.0m  
Boom length 19.2m