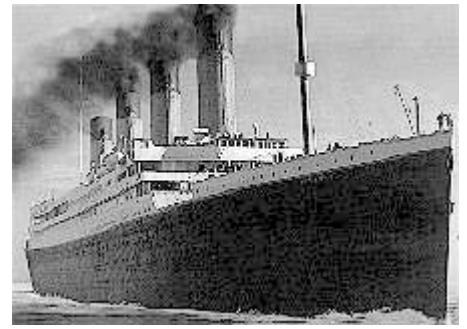


# TECHNOLOGY

## Sensors Employed for

### "TITANIC" Project



**W**hen engineers working on the *Titanic* movie set needed to reenact the sinking of the legendary ocean liner, they built scale models that required synchronized movement to within  $\pm 1$  in. The 90% scale model, used for close-up shots, was about the size of a 77-story building and weighed more than two million lbs. This massive set had to move in nearly perfect unison with that of its 20% scale counterpart - used for distance shots. For feedback signals capable of ensuring this required precision, the *Titanic* engineers chose Celesco's (Canoga Park, CA) PT9510 and PT8510 cable-extension position transducers. Using the Celesco PT8510 transducers on the 20% scale replica for measurements up to 60 in. and the PT9510 on the 90% scale model for measurements up to 400 in., engineers were able to synchronize movements with greater precision because their feedback signals were electrically identical. Due to the fact that these sensors are also NEMA 4X and IP67 rated, they were able to weather the harsh environment reenacted on the set. Celesco's 0.047-in. diameter cable was used for maximum

durability, and the cable tension was increased to improve dynamic response characteristics and assure reliability. Because the sensors do not require perfectly parallel alignment or need periodic adjustments, they are also easy to install and maintain.

These industrial-grade transducers can operate from a 13.5 to 50 VDC unregulated power supply or a 12 VDC battery and provide a regulated 0 to 10 VDC or 0 to 5VDC feedback signal.



For more information, contact **Celesco**, a division of Tedeo Huntleigh, 7800 Deering Ave, PO Box 7964, Canoga Park, CA 91309-7964. 800-423-5483. Or our Danish distributor: **Nordisk Transducer Teknik** Phone +45 98581444 or fax +45 98581866

