

Naval Vessels

Type 45 D Class Destroyers



Photograph courtesy of BAE systems

The Challenge

The world's most advanced warship, HMS Daring, was recently put through her stage one sea trials by BAE Systems engineers and Royal Navy personnel. HMS Daring is one of the first new Type D Class Anti Air Warfare Destroyers and she has received glowing reports after performing above all expectations.

The high standard of the ship's overall design is such that not a single one of her almost 800 compartments exceeds the habitability standards for vibration when operating at full power. Such an achievement would be unlikely on a luxury yacht and is a unique achievement for such a large, complex and powerful warship.

Tyco Fire & Integrated Solutions were commissioned by BAE systems to install a Fire Smoke Flood Detection system (FSFD) and a Rapid Response Spray (RRSS) system on type 45 destroyers. These systems

were designed to integrate with our highly efficient T2000 digital addressable networked fire detection and alarm system.

The FSFD system comprised of six T2000 digital addressable control systems networked together detecting Fire Smoke Flood Detection with over 800 points monitored. This system in turn interfaced with the Destroyers Fully Integrated Communication System (FICS) and Platform Management System (PMS) via the industry standard MODbus protocol communications system. Although the Rapid Reaction Spray System also interfaced with the PMS system, each Magazine was protected independently by the RRSS by eleven T2000 digital addressable control systems. The system was also designed so that each magazine can also be remotely drenched.

Other recent projects include:

- Astute Class Submarines
- Type 23 Frigates
- LPD ships HMS Bullwark and HMS Albion
- Royal Fleet Auxiliary Bay Class LSDA vessels Cardigan
- Bay, Largs Bay, Lyme Bay and Mounts Bay
- Fast Patrol Boats for the Italian Navy
- Frigates for the Malaysian Navy
- Frigates for the Brunei Navy
- Patrol vessels for the Indian Navy
- Patrol vessels for the Trinidadian Navy

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