Wireless Briefing
Switch/Sensor integration
EnOcean

Introduction

A small transceiver fitted to a DC Module (DCM) enables wireless switches and sensors to be utilized as part of the NXT system thus saving time and simplifying the installation a benefit to both the boat builder and owner.

The wireless switches are “self powered” so need no batteries or wiring to operate, the principle being that a switch press generates enough energy to transmit a radio signal to the transceiver. A single DCM will support up to 16 individual switches and of course multiple transceiver equipped DCM’s may be fitted as part of the installation.

To set the system up a switch or sensor must first be “mated” to the DCM; thereafter it can be used as a traditional input in the Design Studio software for EmpirBus NXT.

This gives a very simple installation with no need for cables to the switch, you just mount it on any wall (inside or out), mate the switch with the closest DC-Module and start using it. Of course it’s also very easy to modify or add a switch to an existing installation.

EnOcean:

EnOcean is the originator of this patented energy harvesting wireless sensor technology used in this application, for more information please visit www.enocean.com. A number of switch manufactures have adopted this technology and will therefore be compatible with suitably equipped EmpirBus NXT DC Modules.

Motion Energy Harvesting

Solar Sensor Module

Thermo Energy Harvesting

Example Sensors

Remote Control wireless
with no need for battery

Thermostat wireless
with no need for battery

Traditional wall switches
with no need for battery

Motion sensor wireless
with no need for battery

Mounting inside and outside

Magnetic switch wireless
with no need for battery

Mounting inside and outside

To find a sensor or switch manufacturer please visit:

http://www.enocean-alliance.org/en/products/

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