HIQ Technology

Design

Cybrotech originate from industry control and automation, all devices are designed and build up to a much higher standards then usually expected in home automation.

Features

- hardware watch-dog
- transient supression
- short circuit tolerant outputs
- reverse polarity tolerant supply
- wide temperature range

Addressing

Devices are addressed automatically, not a single address is set by user.

Firmware

All devices are build to implement firmware upgrade, so the future for your investment is assured.

Responsive

From key-press to action, typical reaction time is 10 milliseconds.

Power consumption

HIQ take a great care to use as little electricity as possible.

Autorange

Inputs always ensure a full scale motion.

No batteries

The whole system is operated from a single 24V power supply.

No hidden costs at any level - everything is simple and elegant (and beautiful, too).

Programming tools are free, everybody is welcome to give it a try. Only a basic programming skills are needed. Join our group and discover how fun and simple house automation can be.

Wired vs. Wireless

- no batteries
- more reliable
- faster response
- less EMI pollution

- simpler setup
- lower price

IEX2 bus

IEX2 bus used to interconnect HIQ-DC is based on CAN bus. CAN bus is a multi-master, deterministic bus which offer optimum between performance, network architecture and cost.

It is widely used in automobiles, trucks, motorcycles, snowmobiles, trains, buses, airplanes, agriculture, construction, mining and marine vehicles.

> CAN is ideally suited in applications requiring a large number of short messages with high reliability in rugged operating environments. Because CAN is message based and not address based, it is especially
> well suited when data is needed by more than one location and system-wide data consistency is mandatory.
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> Fault confinement is also a major benefit of CAN. Faulty nodes are automatically dropped from the bus, which prevents any single node from bringing a network down, and ensures that bandwidth is always
> available for critical message transmission. This error containment also allows nodes to be added to a bus while the system is in operation, otherwise known as hot-plugging. [1)]

[1)]
Texas Instruments, Introduction to the Controller Area Network (CAN)