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ETHERNET WIRING RECOMMENDATIONS & TCPIP INSTALLATION EXAMPLE

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Use this documentation with Symcod's products

Our Web site: [http:// www.symcod.com/](http://www.symcod.com/)

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ETHERNET WIRING RECOMMENDATIONS

TERMINAL

- Be careful not to fix the terminals in a place where there can be vibrations.
- Do not fix the terminals near a heat source or an electrical static discharge.
- Do not fix the terminals on a mobile item.

WIRING

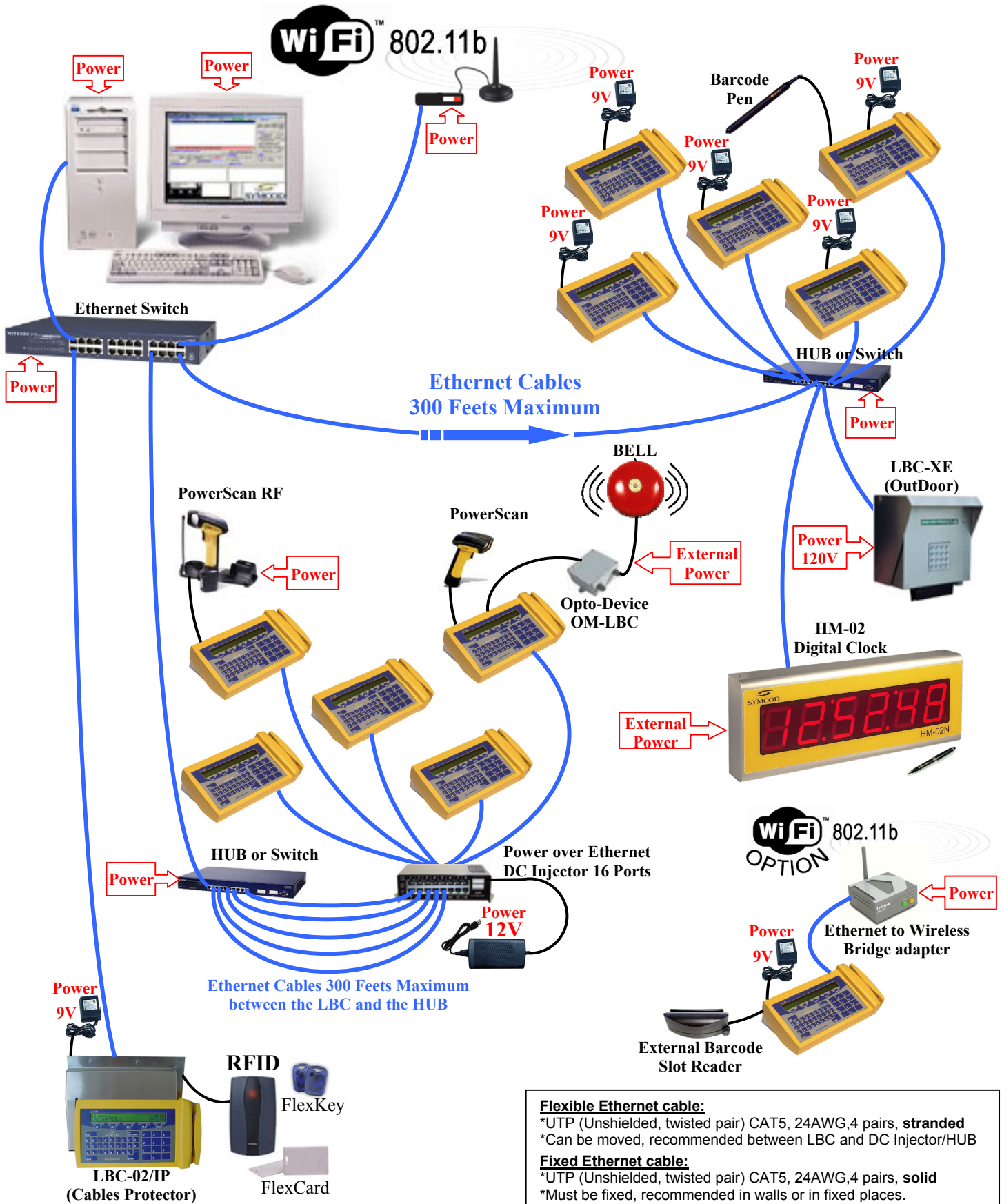
- Do not follow a source of power, neon lighting or any other component that can make induction. However, you can cross the cables.
- The sheath must be well pushed in the RJ-connector. The sheath must not come out from the connector even when you pull out.
- Unsheathe appropriately (ask for an example model).
- Do not fix the cables too tight; we suggest that you let a surplus of 2 feet for each cable so you will not have stretched cables because of short of length; please note that any surplus must not be wind up in bundle and tied up.
- Do not use a stapler or any support that can damage or jam the wire.
- Use a multi-strand cable without shield of category five.
- Use a RJ connector of multi-strand type.
- Each cable should not exceed 300 feet. The length of each cable include the length between the HUB and the DC-INJECTOR. (See the sketch example).

HUB AND DC-INJECTOR

- Make sure that all installation components are easy to reach.
- Make sure that the ground is good.

NETWORK

- To increase the stability rate, you can isolate the terminal network from the rest of the local network. To do so, use a second network card in the computer to control only the Symcod terminal network.



Flexible Ethernet cable:
 *UTP (Unshielded, twisted pair) CAT5, 24AWG, 4 pairs, **stranded**
 *Can be moved, recommended between LBC and DC Injector/HUB

Fixed Ethernet cable:
 *UTP (Unshielded, twisted pair) CAT5, 24AWG, 4 pairs, **solid**
 *Must be fixed, recommended in walls or in fixed places.