

## AUTOMATIC DOOR OPERATORS

## SECTION 08 71 13

### Optex Clean Wave Touchless Switch Model OMH 100 D

#### Note to Architect:

The intent of this document is to cut and paste the information below into Section 08 71 13 Automatic Door Operators provided by the OEM Door Operator manufacturer.

The Optex Clean Wave Touchless Switch model OMH 100 D is defined as a Knowing Act Activation Device. Section 08 71 13 Automatic door specs provided by OEM door manufacturers often include reference to specific model door control activating devices. When including the specifications below in the various parts of the specifier, it is highly recommended to remove any reference to other similar knowing act devices listed or described.

#### **PART 1 – GENERAL**

##### **1.? Definitions**

A. Activation Device: Device that, when actuated, sends an electrical signal to the door to activate the operation of the door.

1. Knowing Act: Consciously initiating the powered opening of a low energy door using acceptable methods including wall mounted switches such as push plates, touchless switches and controlled access devices such as keypads, card readers and key switches.

##### **1.? Coordination**

A. Coordinate location and type of mounting (recessed or surface) for **Optex Clean Wave Touchless Switches**. Requires 4 wire (22-24 AWG) run from each switch mounting location to Door Operator Control Box location or Access Control System location as applicable. Two wires are for power to switch (12-24 vdc), and two wires are for switch activation output (dry contact).

#### **PART 2 – PRODUCT**

##### **2.? General**

*Note to Architect: Knowing Act Activation Device section may include card readers, keypads etc.*

- A. Knowing Act Activation Device

1. Touchless wall switch. Two switches per door location recommended (1 Ext., 1 Int.). **Acceptable Manufacturer: OPTEX Inc., 10741 Walker Street, Suite 300, Cypress, CA 90630, 800-877-6656. [www.optexamerica.com](http://www.optexamerica.com).** Product shall be **Optex Clean Wave Touchless Switch model OMH 100 D** (Basis of design).

Product Specifications are as follows:

- **Detection method:** Doppler Method
- **Output Frequency:** 24.125 GHz
- **Detection Area:** Adjustable, approx. 20" (500 mm) Max
- **Power supply:** 12-24VDC
- **Current consumption:** 40 mA or less (at DC 24 V)
- **Relay contact:** 1a (voltage-free) 50 V, 0.1 A (resistive load)
- **Output hold time:** Approx. 0.5 seconds
- **LED Status Indicator:** Standby / Detection
- **Detection Buzzer:** On / Off
- **Operating temperature:** -31° to +131° F (-35° to +55° C)
- **Protection rating:** IP55 (when recess mounted on flat wall)
- **Dimensions:** 4 ¾" tall x 2 ¾" wide x 5/16" deep
- **Chemical resistance:** Cleaning agents: hypochlorous acid, isopropyl alcohol
- **Material:** Main body: ABS/PC, Cover: PC
- **Mounting options:** Recessed (on Single Gang Box), Surface (with optional surface box - Optex MSW-1W, not included)
- **Included items:** Main body × 1, cover × 1, mounting screws × 2, instruction manual × 1

## **PART 3 - EXECUTION**

### **3.1 Installation**

**A. Optex Clean Wave Touchless Wall Switch model OMH 100 D** shall be installed as a Knowing Act device (one on each side of the door, 1-Int., 1-Ext.). Requires 4 wire (22-24 AWG) run from each switch mounting location to Door Operator Control Box location or Access Control System location as applicable. Two wires provide power to switch (12-24 vdc), and two

wires are for switch activation output (dry contact). Switch can be mounted recessed on single gang box, or surface mounted with optional Surface box Optex MSW-1W (not included).

### **3.2 Adjustment**

A. It is recommended that the **Optex Clean Wave Touchless Wall switch model OMH 100 D** detection area depth be adjusted to 6 inches or less from the face of the unit to help ensure a knowing act activation.

### **3.3 Cleaning**

A. Recommended cleaners for the **Optex Clean Wave Touchless Wall switch model OMH 100 D** are water, hypochlorous acid, isopropyl alcohol.