



## Active infrared hands-free switches

### Automatic swinging doors

#### Description

No other switch on the market comes close to matching these 2nd generation hands-free switches. They are active infrared devices utilizing micro burst sensor technology, designed for use in ADA-compliant automatic door and UL-compliant access control applications. The switches eliminate the spread of germs by avoiding physical contact and offer building occupants greater convenience when moving through the premises. There is a complete range of wired, wireless, and wired/wireless hybrid models to provide the best solution for any application. An optional light ring providing visual indication door status and alarms is available for all line-powered models. These switches are available with either stainless steel or impact-resistant polycarbonate faceplates, in narrow (jamb), single gang, or double gang configurations. All models are ROHS-compliant with lead-free construction.

#### Application

dormakaba infrared hands-free switches are American Disability Act (ADA) compliant, and provide barrier-free access and egress to buildings and washroom facilities. These hands-free switches are also UL 294 compliant for use in code-compliant access control systems. The rugged construction and heavy-duty relay rating make them ideal for use on low-energy automatic doors, drive-up windows, and interior and exterior doors in virtually any commercial (office, retail), institutional (school, hospital or clinic), or industrial (manufacturing) facility.

#### Features

- Choice of 12/24V AC/DC and battery-operated models.
- Choice of hard wired, or battery-powered wireless models, and combination wired/wireless models.
- Choice of stainless steel or high-impact polycarbonate faceplates.
- Adjustable standard operating range 1" - 28"; auto range mode up to 72".
- Adjustable time delay 3–30 seconds.
- Selectable Fail-Safe/Fail-Secure operation.
- Active output for external alarm, LED, or annunciator.
- 'Request to exit' and external (door contact) inputs (DX3330-106, DX3330-107).
- Super fast activation response <90ms.
- Heavy-duty 3 Amps relays, for use with all automatic operators and electrified locks.
- Optional light ring, provides visual indication of door status and alarms. Controlled locally or remote.



**Architects/Engineers specifications**

All door-activation switches to be used throughout the facility shall be dormakaba active infrared hands-free switches, utilizing 'microburst' sensing technology.

The switches shall be jamb/narrow, single gang, or double gang mounted, with either polycarbonate or stainless steel faceplate as required. They shall have an on-board LED for ease of set-up, selectable fail safe/fail secure operation, an adjustable (standard) operating range from 1" to 28" (25.4 mm to 711.2 mm) and 1 or 2 relay contacts rating of 3 Amps @ 30V DC. Switches mounted outdoors, or exposed to interior water/humidity shall be mounted with weather resistant integral rubber gasket and back box, supplied by the same manufacturer.

**Active infrared hands-free switches**



**Technical specifications**

**All infrared hands-free switches**

<b>Sensor type</b>	Infrared, utilizing microburst technology
<b>Operating temp</b>	-4°F to +153°F (-20°C to +85°C)
<b>Response time</b>	90 ms.
<b>Time delay</b>	3 – 30 seconds
<b>Connections</b>	20 – 22 AWG wire

**DX3330-108 – Battery operated wireless**

Simple operation, avoid cost of wiring.

<b>No. of IR sensors</b>	(1) DX3330-108
<b>Batteries</b>	(2) 'AA' Alkaline (supplied) (2) 'AA' lithium Batteries (optional)
<b>Estimated battery life</b>	2 yrs (based on 100 operations/day)
<b>Standard operating range</b>	1" – 12" (25.4 mm – 304 mm)
<b>Inputs</b>	'Request to exit' external (door contact)
<b>Wireless output</b>	Built-in 915MHZ. spread spectrum wireless transmitter

**DX3330-105**

Economical, ideal for most applications (incl. retrofit).

<b>No. of IR sensors</b>	(2) DX3330-105
<b>Operating voltage</b>	12 – 24 volts, AC/DC ± 10
<b>Current draw</b>	40MA
<b>Standard operating range</b>	1" – 28" (25.4 mm – 711.2 mm)
<b>Auto range operation</b>	6" – 40" (152.4 mm – 1016 m) hand 6" – 72" (152.4 mm – 1820 m) body
<b>Operating modes</b>	<b>Motion sensing modes</b> Momentary Momentary with alarm Maintained (latching)  <b>Relay operation modes</b> Single event Toggle
<b>Relay output</b>	(1) Form 'C' (SPDT)
<b>Relay contact rating</b>	3 Amps @ 30V DC
<b>Active output</b>	9 – 12V
<b>Inputs</b>	'Request to Exit' external (door contact) input
<b>Optional LED ring</b>	On/Off, Red, Blue, Green
<b>Current draw</b>	8MA max

## Technical specifications

### DX3330-106 – Wired, 2 relay, option for wireless transmitter

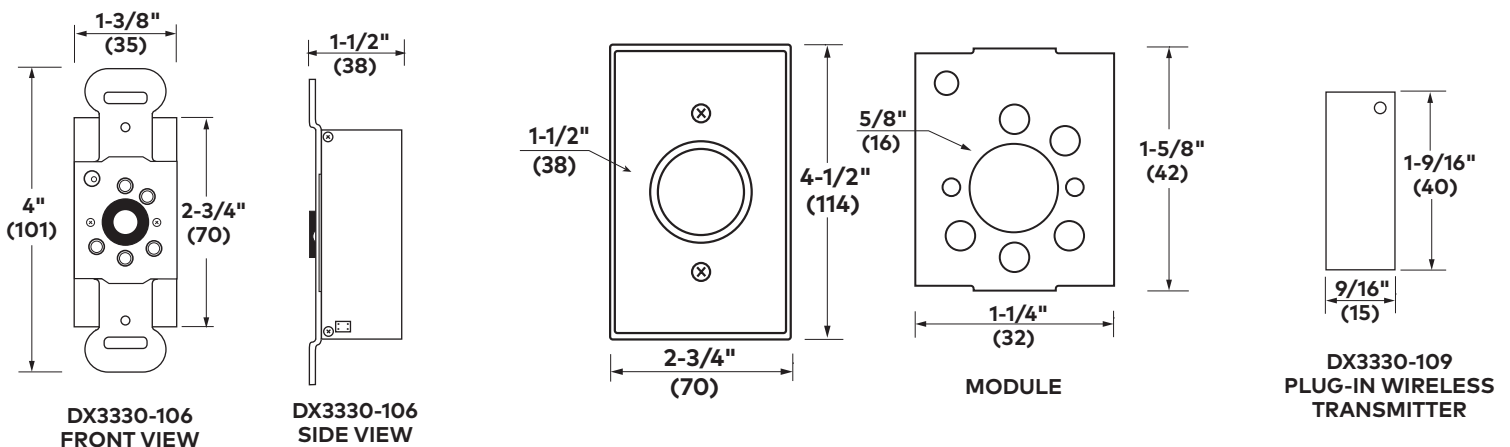
Advanced switch with door control functionality.

<b>No. of IR sensors</b>	(2) DX3330-106
<b>Operating voltage</b>	12 – 24 volts, AC/DC $\pm$ 10
<b>Current draw</b>	40MA
<b>Standard operating range</b>	1" - 28" (25.4 mm - 711.2 m)
<b>Auto range operation</b>	6" – 40" (152.4 mm – 1016 m) hand 6" – 72" (152.4 mm – 1820 m) body
<b>Operating modes</b>	<b>Motion sensing modes</b> Momentary Momentary with alarm Maintained (latching)  <b>Relay operation modes</b> Single event Sequence Security Toggle Auto range
<b>Relay output</b>	(2) Form 'C' (SPDT)
<b>Relay contact rating</b>	3 Amps @ 30V DC
<b>Active output</b>	9 – 12V
<b>Output type</b>	Fail Safe or Fail Secure
<b>Inputs</b>	'Request to exit' external (door contact) input
<b>Optional LED ring</b>	On/Off, Red, Blue, Green
<b>Current draw</b>	8MA max
<b>Wireless output</b>	DX3330-109 plug-in 915MHZ. spread spectrum wireless transmitter

### DX3330-107 – Battery operated with relay output, option for wireless transmitter

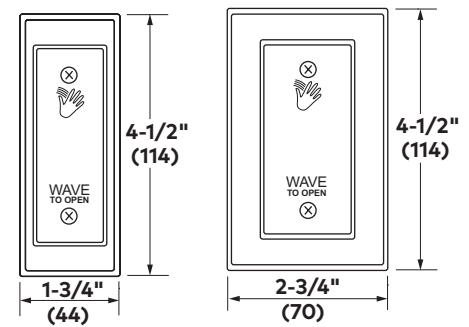
Ideal for retrofit applications utilizing existing wires.

<b>No. of IR sensors</b>	(1) DX3330-107
<b>Batteries</b>	(2) 'AA' alkaline (supplied) (2) 'AA' lithium batteries (optional)
<b>Estimated battery life</b>	2 yrs (based on 100 operations/day)
<b>Standard operating range</b>	1" - 12" (25.4 mm - 304 mm)
<b>Motion sensing modes</b>	Momentary Momentary with alarm Maintained (latching)
<b>Relay output</b>	(1) Form 'C' (SPDT)
<b>Relay contact rating</b>	3 Amps @ 30V DC
<b>Output type</b>	Fail Secure
<b>Inputs</b>	'Request to exit' external (door contact) input
<b>Wireless output</b>	DX3330-109 plug-in 915MHZ. spread spectrum wireless transmitter



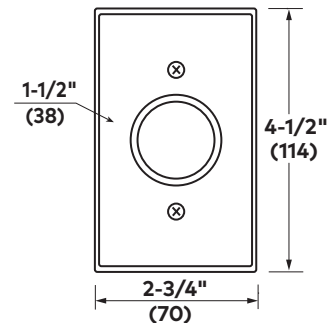
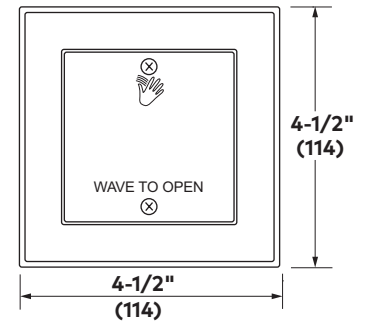
## Switch models

Part no.	Description
<b>DX3330-108</b>	Hands-free switch, battery powered, built-in wireless transmitter (no light ring option)
<b>DX3330-105</b>	Hands-free switch, wired, 1 relay, option for plug-in wireless transmitter and light ring
<b>DX3330-106</b>	Hands-free switch, wired, 2 relays, option for plug-in wireless transmitter and light ring
<b>DX3330-107</b>	Hands-free switch, battery powered, 1 relay, option for plug-in wireless transmitter



## Configuration options

Option	Part no.	Description
<b>Lithium batteries</b>	<b>DX3330-119</b>	(2) AA lithium batteries in place of (2) alkaline
	<b>DX3330-120</b>	(2) AA lithium battery pack
<b>Light ring</b>	<b>DX3330-121</b>	Light ring PCB, and stainless steel single or double gang faceplate. Not available with narrow faceplate. (For models <b>DX3330-105</b> or <b>DX3330-106.</b> )
<b>Wireless transmitter</b>	<b>DX3330-109</b>	Two-channel Lazerpoint RF™ plug-in wireless transmitter. (For models <b>DX3330-105</b> , <b>DX3330-106</b> , or <b>DX3330-107.</b> )
<b>Receivers</b>	<b>DX3330-110</b>	One-relay Lazerpoint RF receiver
	<b>DX3330-128</b>	Two-relay Lazerpoint RF receiver

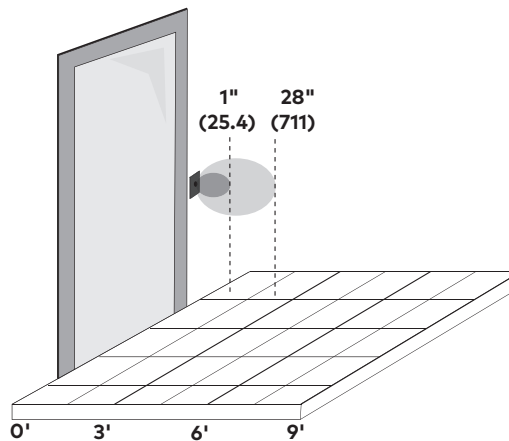


## Adjustable sensor range

### Adjustable Operating Range (1" To 28")\*

All hands free switch models have easy field adjustment of the operating range, up to 28", making them ideal for virtually any door control application.

\* Extended range models available for up to 72".



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