



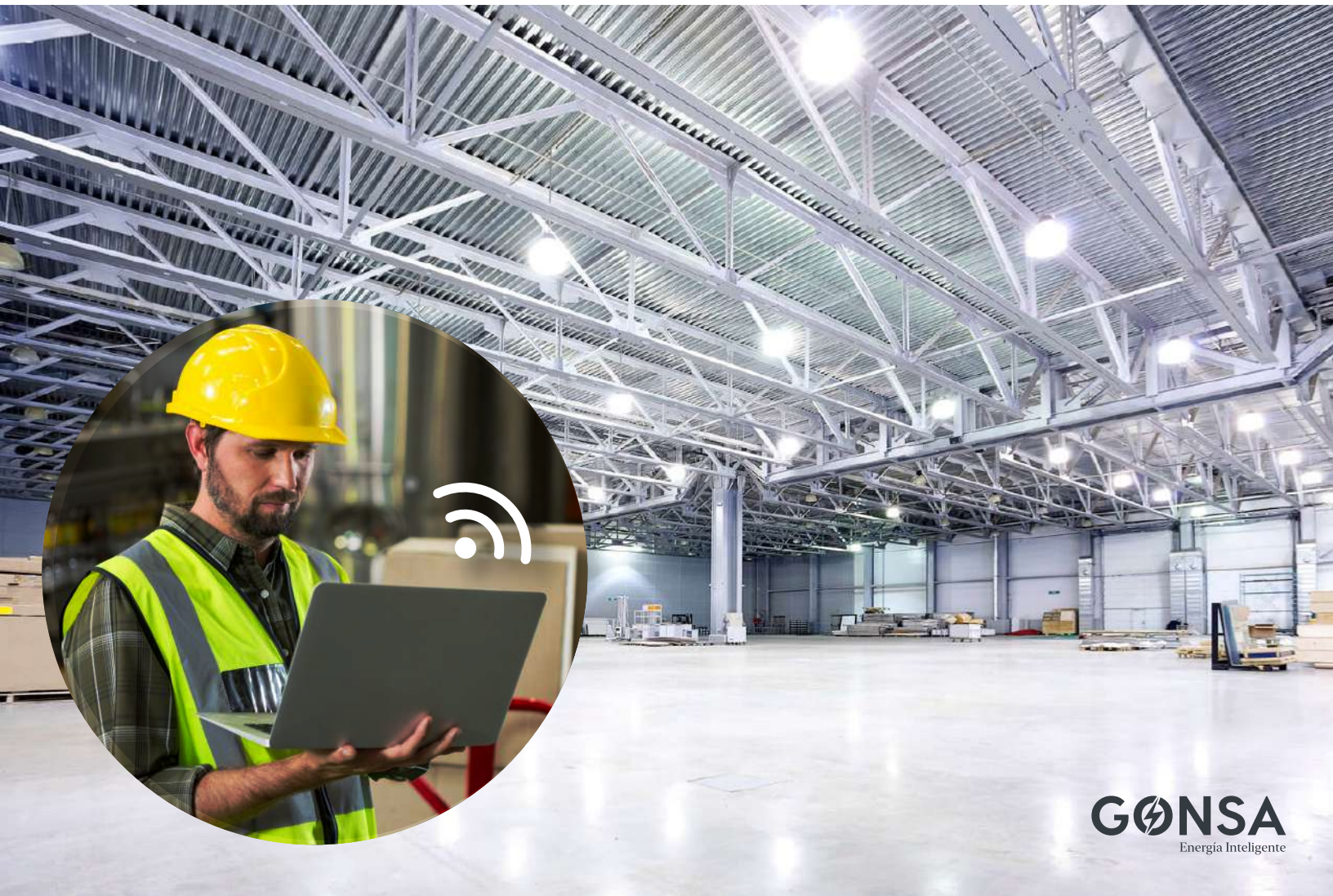
**GONSA**  
Energía Inteligente

**Catálogo de Dispositivos  
Douglas Lighting Controls**



**Douglas Lighting Controls** crea soluciones de control de iluminación digital de bajo consumo, fáciles de instalar y usar. Es un sistema de control de amplia variedad que incluye paneles de relays, controladores, sensores de ocupación/vacío, sensores de luz diurna (luz natural) y estaciones de interruptores de pared, todo esto manipulable desde un dispositivo móvil o laptop.

**DOUGLAS**<sup>®</sup>  
LIGHTING CONTROLS



# WLC-4150-L

## Unidad de Control de Iluminación

Centralizado de información de equipos para control y automatización.



Uso en sector:



<b>POWER</b>	<ul style="list-style-type: none"> <li>· 24VAC, 1A is required for power</li> </ul>
<b>COMMUNICATION</b>	<ul style="list-style-type: none"> <li>· Dialog 2-wire (18/2 AWG) low voltage, non-polarized, power and data bus</li> </ul>
<b>INTERFACE</b>	<ul style="list-style-type: none"> <li>· Approx 6.25"H x 3.75"W capacitive touch screen</li> <li>· Full colour</li> </ul>
<b>OUTPUT</b>	<ul style="list-style-type: none"> <li>· 500mA</li> </ul>
<b>FUNCTIONALITY</b>	<ul style="list-style-type: none"> <li>· Addressability</li> <li>· Energy Measurement (E version)</li> <li>· OpenADR ready (E version)</li> <li>· Astronomical time clock (plus auto daylight savings time change)</li> <li>· Scheduling including vacation overrides</li> <li>· 0-10V dimming</li> <li>· Natural daylight priority</li> <li>· Room control</li> <li>· Demand response</li> <li>· Zone control</li> <li>· BACnet (-C)</li> </ul>
<b>ENVIRONMENT</b>	<ul style="list-style-type: none"> <li>· Indoors, stationary, non-vibrating, non-corrosive atmosphere &amp; non-condensing humidity</li> <li>· Ambient operating temperature: +5°F to +120°F (-15°C to +50°C)</li> </ul>
<b>WARRANTY</b>	<ul style="list-style-type: none"> <li>· 1 year warranty</li> </ul>

# BT-FMS-A

## Sensor Luz Natural y Presencia

Control de iluminación con sensor de presencia y luz natural.



Uso en sector:



Industrial



Comercial

<b>FUNCTIONALITY</b>	Occupancy, CLC, bi-level level light set point, ON/OFF, adjustable OFF delay Download Douglas Lighting Controls App from Apple App store for configuration For Installation with field-installed conductors of 60°C (140°F) minimum rating See Installation Manual for complete details	
<b>INPUT VOLTAGE</b>	120/277/347VAC 60Hz	
<b>WIRELESS RANGE</b>	150' Clear line of site. 50' through standard walls (distances may vary based on location and environment. Additional devices may be required at time of commissioning to ensure Bluetooth® network integrity.)	
<b>INDICATORS</b>	Green LED, located behind lens, flashes at 1 second intervals when BT-FMS is unassociated with a network Orange LED, located behind lens, and fixture(s) controlled by BT-FMS, will flash when BT-APP is used to "attention" device Green LED, located behind lens, will flash to indicated occupancy/motion detection	
<b>ENVIRONMENT</b>	Outdoor use, Ingress Protection Rating: IP65 Operating temperature: -40°F to 131°F (-40°C to 55°C)	Storage temperature: -40°F to 140°F (-40°C to 60°C)
<b>OCC. SENSOR RANGE</b>	Up to 40 feet	
<b>INDICATORS</b>	Green LED, located behind lens, flashes at 1 second intervals when BT-FMS is unassociated with a network Orange LED, located behind lens, and fixture(s) controlled by BT-FMS, will flash when BT-APP is used to "attention" device Green LED, located behind lens, will flash to indicated occupancy/motion detection	
<b>ENVIRONMENT</b>	Outdoor use, Ingress Protection Rating: IP65 Operating temperature: -40°F to 131°F (-40°C to 55°C)	Storage temperature: -40°F to 140°F (-40°C to 60°C)
<b>LOAD RATINGS</b>	800W @ 120VAC standard ballast 1200W @ 277VAC standard ballast	3300W @ 277VAC electronic ballast 1500W @ 347VAC standard ballast
<b>DIMMING</b>	0-10V; 25mA current sinking maximum	
<b>APPROVALS</b>	Conforms to UL STD. 508 Certified to CSA STD. C22.2 #14	Contains IC: 8254A-B1010SPO Contains FCC ID: W7Z-B1010SPO
<b>WARRANTY</b>	Standard 1-year	

# BT-PP20-A

## Controlador

Controlador de dispositivo habilitado para bluetooth Power Pack 0-10v.



Uso en sector:



Industrial

Comercial

<b>FUNCTIONALITY</b>	ON/OFF, 0-10V dimming, Demand Response Ready <b>Download Douglas Lighting Controls App from Apple App store for configuration</b> See Installation Manual for complete details
<b>INPUT VOLTAGE</b>	120/277/347VAC 60Hz
<b>AUX. OUTPUT</b>	12VDC, 30mA
<b>RANGE</b>	150' Clear line of site. 50' through standard walls (distances may vary based on location and environment. Additional devices may be required at time of commissioning to ensure Bluetooth network integrity.)
<b>LOAD RATINGS</b>	800W @ 120VAC standard ballast 1200W @ 277VAC standard ballast 3300W @ 277VAC electronic ballast 1500W @ 347VAC standard ballast
<b>APPROVALS</b>	ETL Listed Conforms to UL STDS. 508 and I310 <b>Certified to CSA STD. C22.2 #14 and #223</b> ETL Classified Conforms to UL STD. 2043 <b>Certified to ULC/ORD STD C2043</b> ASHRAE 90.1 2010 Compliant California Energy Commission Title 24 Compliant Contains IC: 8254A-BI010SPO Contains FCC ID: W7Z-BI010SPO
<b>ENVIRONMENT</b>	Indoor, stationary, non-vibrating, non-corrosive atmosphere and non-condensing humidity Operating temperature: 32°F to 104°F (0°C to 40°C) Storage temperature: 14° to 140°F (-25° to 60°C)
<b>WARRANTY</b>	Standard 1-year

# BT-IFS-A

## Sensor Luz Natural / Presencia y Controlador

Sensor de presencia y luz natural. Control de iluminación. ON/OFF y atenuación 0-10v.



Uso en sector:



<b>PART NUMBER</b>	· BT-IFS-A	· BT-IFC-A
<b>NAME</b>	· Intelligent Fixture™ Sensor	· Intelligent Fixture™ Controller
<b>FUNCTIONALITY</b>	<ul style="list-style-type: none"> <li>· 0-10V Dimming with DIM-to-OFF (LED Driver dependent)</li> <li>· Occupancy, Vacancy, Partial ON, &amp; Partial OFF</li> <li>· Adjustable Occupancy Timeout: 5 to 90 minutes</li> <li>· Primary &amp; Secondary Daylight Harvesting (CLC)</li> <li>· Bluetooth beacon for digital ceiling, IoT, and location services strategies</li> <li>· Commissioning via BTCC App on the iTunes Store</li> <li>· PIR Motion Sensing</li> </ul>	<ul style="list-style-type: none"> <li>· 0-10V Dimming with DIM-to-OFF (LED Driver dependent)</li> <li>· Listed for emergency lighting control when used on a dedicated emergency power bus</li> <li>· Occupancy and daylighting control features as shown at left when networked with one or more BT-IFS-A sensors</li> <li>· Bluetooth beacon for digital ceiling, IoT, and location services strategies</li> <li>· Commissioning via BTCC App on the iTunes Store</li> <li>· <b>UL924 certified devices for Emergency Fixtures</b></li> </ul>
<b>OCC. SENSOR MOUNTING HEIGHT</b>	· Up to 16.4ft (5m)	· Not applicable
<b>WIRING</b>	· Use #20 to #26 AWG solid copper conductors stripped to 4mm	
<b>INPUT VOLTAGE</b>	· 12VDC – 26.5VDC; Power draw: 0.6W maximum, 0.25W typical	
<b>WIRELESS RANGE</b>	<ul style="list-style-type: none"> <li>· 150ft Clear line of sight, 50ft through standard walls</li> <li>· Distances may vary based on location and environment</li> <li>· Additional devices may be required at time of commissioning to ensure Bluetooth network integrity</li> </ul>	
<b>NOTIFICATIONS</b>	· LED indicator for commissioning and occupancy (IFS)	
<b>ENVIRONMENT</b>	<ul style="list-style-type: none"> <li>· Indoor, stationary, non-vibrating, non-corrosive atmosphere, and non-condensing humidity</li> <li>· Suitable for Use in Other Environmental Air Space (Plenums) in Accordance with Section 300.22, (C) of the National Electrical Code.</li> </ul>	
	<ul style="list-style-type: none"> <li>· Operating temperature: 32°F to 131°F (0°C to 55°C)</li> <li>· Storage temperature: -4°F to 158°F (-20°C to 70°C)</li> </ul>	<ul style="list-style-type: none"> <li>· Operating temperature: 32°F to 185°F (0°C to 85°C)</li> <li>· Storage temperature: -40°F to 185°F (-40°C to 85°C)</li> </ul>
<b>DIMMING</b>	<ul style="list-style-type: none"> <li>· Two 0-10V dimming channels, each capable of sinking up to 25mA</li> <li>· Typical use is with single channel 0-10V LED drivers providing auxiliary output power and DIM-to-OFF capability</li> <li>· May also be used with dual-channel, tunable white LED drivers providing auxiliary output power and DIM-to-OFF capability</li> </ul>	
<b>CERTIFICATIONS</b>	<ul style="list-style-type: none"> <li>· UL916, UL2043 (Plenum), UL924 (Emergency Lighting - BT-IFC only)</li> <li>· May be installed through a knockout in the luminaire wiring enclosure or installed external to the enclosure and powered with a Class 2 circuit using Class 2 wiring methods</li> </ul>	
<b>WARRANTY</b>	· Standard 5-year warranty	



# BT-IFC-A

## Sensor Controlador

Control de iluminación. ON/OFF y atenuación 0-10v.



Uso en sector:



<b>PART NUMBER</b>	· BT-IFS-A	· BT-IFC-A
<b>NAME</b>	· Intelligent Fixture™ Sensor	· Intelligent Fixture™ Controller
<b>FUNCTIONALITY</b>	<ul style="list-style-type: none"> <li>· 0-10V Dimming with DIM-to-OFF (LED Driver dependent)</li> <li>· Occupancy, Vacancy, Partial ON, &amp; Partial OFF</li> <li>· Adjustable Occupancy Timeout: 5 to 90 minutes</li> <li>· Primary &amp; Secondary Daylight Harvesting (CLC)</li> <li>· Bluetooth beacon for digital ceiling, IoT, and location services strategies</li> <li>· Commissioning via BTCC App on the iTunes Store</li> <li>· PIR Motion Sensing</li> </ul>	<ul style="list-style-type: none"> <li>· 0-10V Dimming with DIM-to-OFF (LED Driver dependent)</li> <li>· Listed for emergency lighting control when used on a dedicated emergency power bus</li> <li>· Occupancy and daylighting control features as shown at left when networked with one or more BT-IFS-A sensors</li> <li>· Bluetooth beacon for digital ceiling, IoT, and location services strategies</li> <li>· Commissioning via BTCC App on the iTunes Store</li> <li>· <b>UL924 certified devices for Emergency Fixtures</b></li> </ul>
<b>OCC. SENSOR MOUNTING HEIGHT</b>	· Up to 16.4ft (5m)	· Not applicable
<b>WIRING</b>	· Use #20 to #26 AWG solid copper conductors stripped to 4mm	
<b>INPUT VOLTAGE</b>	· 12VDC – 26.5VDC; Power draw: 0.6W maximum, 0.25W typical	
<b>WIRELESS RANGE</b>	<ul style="list-style-type: none"> <li>· 150ft Clear line of sight, 50ft through standard walls</li> <li>· Distances may vary based on location and environment</li> <li>· Additional devices may be required at time of commissioning to ensure Bluetooth network integrity</li> </ul>	
<b>NOTIFICATIONS</b>	· LED indicator for commissioning and occupancy (IFS)	
<b>ENVIRONMENT</b>	<ul style="list-style-type: none"> <li>· Indoor, stationary, non-vibrating, non-corrosive atmosphere, and non-condensing humidity</li> <li>· Suitable for Use in Other Environmental Air Space (Plenums) in Accordance with Section 300.22, (C) of the National Electrical Code.</li> </ul>	
	<ul style="list-style-type: none"> <li>· Operating temperature: 32°F to 131°F (0°C to 55°C)</li> <li>· Storage temperature: -4°F to 158°F (-20°C to 70°C)</li> </ul>	<ul style="list-style-type: none"> <li>· Operating temperature: 32°F to 185°F (0°C to 85°C)</li> <li>· Storage temperature: -40°F to 185°F (-40°C to 85°C)</li> </ul>
<b>DIMMING</b>	<ul style="list-style-type: none"> <li>· Two 0-10V dimming channels, each capable of sinking up to 25mA</li> <li>· Typical use is with single channel 0-10V LED drivers providing auxiliary output power and DIM-to-OFF capability</li> <li>· May also be used with dual-channel, tunable white LED drivers providing auxiliary output power and DIM-to-OFF capability</li> </ul>	
<b>CERTIFICATIONS</b>	<ul style="list-style-type: none"> <li>· UL916, UL2043 (Plenum), UL924 (Emergency Lighting - BT-IFC only)</li> <li>· May be installed through a knockout in the luminaire wiring enclosure or installed external to the enclosure and powered with a Class 2 circuit using Class 2 wiring methods</li> </ul>	
<b>WARRANTY</b>	· Standard 5-year warranty	

# BT-GTWY-A

## Gateway Centralizador

Almacena la información de ejecuciones y automatizaciones para el centralizado.



Uso en sector:



Industrial

Comercial

<b>FUNCTIONALITY</b>	<ul style="list-style-type: none"> <li>The gateway provides a communication path between Douglas Lighting Controls Bluetooth devices and Douglas Lighting Controls Dialog network.</li> </ul>
<b>SPECIFICATIONS</b>	<ul style="list-style-type: none"> <li>Dimensions (W x D x H): 96.3mm x 40mm x 20mm</li> <li>Material: Plastic</li> <li>Mounting: Screw onto hard surface</li> <li>Connection: Terminal plug (included) for 18/2 #wire</li> <li>LED: Status and factory reset</li> </ul>
<b>CURRENT DRAW</b>	<ul style="list-style-type: none"> <li>19mA</li> </ul>
<b>WIRELESS RANGE</b>	<ul style="list-style-type: none"> <li>150' clear line of site. 50' through standard walls (distances may vary based on location and environment. Additional devices may be required at time of commissioning to ensure Bluetooth network integrity.)</li> </ul>
<b>APPROVALS</b>	<ul style="list-style-type: none"> <li>Contains IC: 8254A-B1010SP0</li> <li>Contains FCC ID: W7Z-B1010SP0</li> </ul>
<b>ENVIRONMENT</b>	<ul style="list-style-type: none"> <li>Indoor, stationary, non-vibrating, non-corrosive atmosphere and non-condensing humidity</li> <li>Operating Temperature: 32°F to 104°F (0°C to 40°C)</li> <li>Storage Temperature: 14°F to 140°F (-25°C to 60°C)</li> </ul>
<b>WARRANTY</b>	<ul style="list-style-type: none"> <li>Standard 1-year</li> </ul>



# BT-4BTSW-U-A

## Control de 4 botones

Interruptor de pared de 4 botones habilitado para Bluetooth 120 / 277VAC.



<b>FUNCTIONALITY</b>	<ul style="list-style-type: none"> <li>4-button, 8-button, DIM/ON/OFF Bluetooth enabled switches</li> <li>Download Douglas Lighting Controls App from Apple App store for configuration</li> <li>See Installation Manual for complete details</li> </ul>
<b>INPUT VOLTAGE</b>	<ul style="list-style-type: none"> <li>120/277 or 347VAC 60Hz (product specific)</li> </ul>
<b>RANGE</b>	<ul style="list-style-type: none"> <li>150' Clear line of site. 50' through standard walls (distances may vary based on location and environment. Additional devices may be required at time of commissioning to ensure Bluetooth network integrity.)</li> </ul>
<b>APPROVALS</b>	<ul style="list-style-type: none"> <li>Certified to CAN/CSA Std. C22.2 No. 14</li> <li>Conforms to UL 508 Standard</li> <li>FCC Class A</li> <li>ASHRAE 90.1 2010 Compliant</li> <li>California Energy Commission Title 24 &amp; NYLL 48 Compliant</li> <li>Contains IC: 8254A-B1010SPO</li> <li>Contains FCC ID: W7Z-B1010SPO</li> </ul>
<b>ENVIRONMENT</b>	<ul style="list-style-type: none"> <li>Indoor, stationary, non-vibrating, non-corrosive atmosphere and non-condensing humidity</li> <li>Operating temperature: 32°F to 104°F (0°C to 40°C)</li> <li>Storage temperature: 14° to 140°F (-25° to 60°C)</li> </ul>
<b>WARRANTY</b>	<ul style="list-style-type: none"> <li>Standard 1-year</li> </ul>

# BT-8BTSW-U-A

## Control de 8 botones

Interruptor de pared de 8 botones habilitado para Bluetooth 120 / 277VAC.



<b>FUNCTIONALITY</b>	<ul style="list-style-type: none"> <li>4-button, 8-button, DIM/ON/OFF Bluetooth enabled switches</li> <li>Download Douglas Lighting Controls App from Apple App store for configuration</li> <li>See Installation Manual for complete details</li> </ul>
<b>INPUT VOLTAGE</b>	<ul style="list-style-type: none"> <li>120/277 or 347VAC 60Hz (product specific)</li> </ul>
<b>RANGE</b>	<ul style="list-style-type: none"> <li>150' Clear line of site. 50' through standard walls (distances may vary based on location and environment. Additional devices may be required at time of commissioning to ensure Bluetooth network integrity.)</li> </ul>
<b>APPROVALS</b>	<ul style="list-style-type: none"> <li>Certified to CAN/CSA Std. C22.2 No. 14</li> <li>Conforms to UL 508 Standard</li> <li>FCC Class A</li> <li>ASHRAE 90.1 2010 Compliant</li> <li>California Energy Commission Title 24 &amp; NYLL 48 Compliant</li> <li>Contains IC: 8254A-B1010SP0</li> <li>Contains FCC ID: W7Z-B1010SP0</li> </ul>
<b>ENVIRONMENT</b>	<ul style="list-style-type: none"> <li>Indoor, stationary, non-vibrating, non-corrosive atmosphere and non-condensing humidity</li> <li>Operating temperature: 32°F to 104°F (0°C to 40°C)</li> <li>Storage temperature: 14° to 140°F (-25° to 60°C)</li> </ul>
<b>WARRANTY</b>	<ul style="list-style-type: none"> <li>Standard 1-year</li> </ul>

# BT-DMSW-U-A

## Dimmer con switch

Interruptor de pared con atenuador y 1 botón habilitado para Bluetooth  
120 / 277VAC.



<b>FUNCTIONALITY</b>	<ul style="list-style-type: none"> <li>4-button, 8-button, DIM/ON/OFF Bluetooth enabled switches</li> <li>Download Douglas Lighting Controls App from Apple App store for configuration</li> <li>See Installation Manual for complete details</li> </ul>
<b>INPUT VOLTAGE</b>	<ul style="list-style-type: none"> <li>120/277 or 347VAC 60Hz (product specific)</li> </ul>
<b>RANGE</b>	<ul style="list-style-type: none"> <li>150' Clear line of site. 50' through standard walls (distances may vary based on location and environment. Additional devices may be required at time of commissioning to ensure Bluetooth network integrity.)</li> </ul>
<b>APPROVALS</b>	<ul style="list-style-type: none"> <li>Certified to CAN/CSA Std. C22.2 No. 14</li> <li>Conforms to UL 508 Standard</li> <li>FCC Class A</li> <li>ASHRAE 90.1 2010 Compliant</li> <li>California Energy Commission Title 24 &amp; NYLL 48 Compliant</li> <li>Contains IC: 8254A-B1010SPO</li> <li>Contains FCC ID: W7Z-B1010SPO</li> </ul>
<b>ENVIRONMENT</b>	<ul style="list-style-type: none"> <li>Indoor, stationary, non-vibrating, non-corrosive atmosphere and non-condensing humidity</li> <li>Operating temperature: 32°F to 104°F (0°C to 40°C)</li> <li>Storage temperature: 14° to 140°F (-25° to 60°C)</li> </ul>
<b>WARRANTY</b>	<ul style="list-style-type: none"> <li>Standard 1-year</li> </ul>



# GONSA

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