Q45BDL Wireless Button with Dome Light Node



Q45BDL Features

Sure Cross® Wireless Q45 Sensors combine the best of Banner's flexible Q45 sensor family with its reliable, field-proven, Sure Cross wireless architecture to solve new classes of applications limited only by the user's imagination. Containing a variety of sensor models, a radio, and an internal battery supply, this product line is truly plug-and-play.

The Q45BDL is a compact, industrial, battery-powered device that can be used to wirelessly transmit a single button input to a wireless controller/gateway for remote monitoring or control with local LED indication. All configuration is done through internal dip switches or the DX80 Performance Configuration Software.

Benefits

- · Powerful device to deliver factory automation and IIoT solutions for many applications including but not limited to:
 - · Call for parts, service, or pallet pickup
 - Door/gate control
 - AGV control
 - Motor jog control
 - Forklift door control
- · Easy-to-use rugged device that can be handheld or mounted to equipment
- · Single, normally open push button for monitoring or controlling remote devices
- Local LED indication with a greater than 180-degree viewing angle can be linked to button presses or to other wireless inputs within the network
- · Battery powered for "peel and stick" functionality with a two-year battery life capability
- Eliminate control wires—The Sure Cross wireless system is a radio frequency network with integrated I/O that removes the need for power and control wires



- Reduce complexity—Machine or process reconfiguration made easier; great for retrofit applications
- **Deploy easily**—Simplify installation on existing equipment enables deployment in remote and hard-to-access locations where implementing a wired solution would be difficult, impractical, or not cost-effective
- Selectable transmit power levels of 250 mW or 1 Watt for 900 MHz models and 65 mW for 2.4 GHz models
- DIP switches for user configuration
- · Frequency Hopping Spread Spectrum (FHSS) technology ensures reliable data delivery
- Transceivers provide bidirectional communication between the Gateway and Node, including fully acknowledged data transmission
- · Diagnostics allow user-defined output settings in the unlikely event of a lost radio signal

Q45BDL Models

Model	Frequency	Port	Inputs and Outputs
DX80N9Q45BDL	900 MHz ISM Band	1/2-inch NPT	Inputs: One button Outputs: One four-color LED dome indicator light

Storage Mode

While in **storage mode**, the device's radio does not operate to conserve the battery. To put any device into storage mode, press and hold the binding button for five seconds. The device is in storage mode when the LEDs stop blinking. To wake the device, press and hold the binding button (inside the housing on the radio board) for five seconds.

Configuration Instructions

Binding Button and LED Indicators



- 1. Binding button
- 2. Red LED (flashing) indicates a radio link error with the Gateway.
- 3. Green LED (flashing) indicates a good radio link with the Gateway.
- 4. Amber LED indicates when input 1 is active.
- 5. DIP switches

DIP Switches

After making any changes to any DIP switch position, reboot the Wireless Q45 Sensor by triple-clicking the binding button, waiting a second, then double-clicking the binding button.

By default, the DIP switches are in the OFF position. To turn a DIP switch on, push the switch toward the battery pack. DIP switches are numbered from left to right.

DIP switches

Description		DIP Switches								
Description	1	2	3	4	5	6	7	8		
Transmit power: 1 Watt	OFF *									
Transmit power: 250 mW (compatible with 150 mW radios)	ON									
Reserved		OFF *	OFF *	OFF *						
Button mode: toggle					OFF *	OFF *				
Button mode: momentary					OFF	ON				
Button mode: latch					ON	OFF				
Reserved					ON	ON				
Reserved (keep in OFF position)							OFF *			
Light mode: flash (recommended to conserve the battery) (1)								OFF '		
Light mode: solid								ON		

^{*} Default configuration

Transmit Power Levels—The 900 MHz radios transmit at 1 Watt (30 dBm) or 250 mW (24 dBm). The 250 mW mode reduces the radio's range but improves the battery life in short-range applications. For 2.4 GHz models, this DIP switch is disabled. The transmit power for 2.4 GHz is fixed at about 65 mW EIRP (18 dBm).

Toggle—The input register toggles between a value of 0 (off) and 1 (on) with successive button presses or touches. Write a decimal value of 5377 to I/O 15 to clear the toggle to 0 or write a value of 5505 to alternate the current state of the toggle (0 to 1 or 1 to 0).

Momentary—The input register holds the value of the current state of the button. When the button is actively pressed or touched, the input register shows a value of 1. When the button is not pressed or touched, the input register shows a value of 0.

Latch—After an input is activated (register set to 1) with a button press or using Modbus messages, the input remains at 1 until cleared or alternated by writing a value of 5377 or 5505 respectively. Latching prevents a successive button press from setting the input back to 0.

For more details on Latch/Toggle controls, see the Latch/Toggle Control for Push Button and Touch Button Inputs (p/n b_51135628).

Transmit Power Levels

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Modbus Holding Registers

Modbus holding registers

Modbus Holding Register I/O#		bus Holding Register	VO Topo	I/O Range		Holding Register Representation	
1/0#	Gateway	Any Node	I/O Type	Min. Value	Max. Value	Min. (Dec.)	Max. (Dec.)
1	1	1 + (Node# × 16)	Discrete IN 1 (push button)	0	1	0	1
2	2	2 + (Node# × 16)	NOT Discrete IN 1	0	1	0	1
7	7	7 + (Node# × 16)	Reserved				
8	8	8 + (Node# × 16)	Device Message				
9	9	9 + (Node# × 16)	Discrete OUT 1 (red light)	0	1	0	1
10	10	10 + (Node# × 16)	Discrete OUT 2 (yellow light)	0	1	0	1
11	11	11 + (Node# × 16)	Discrete OUT 3 (green light)	0	1	0	1

Continued on page 3

The light consumes most of the sensor's power. If the light remains off most of the time, the batteries will last much longer.

⁽¹⁾

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I/O#	Modbus Holding Register	VO Time	I/O Range		Holding Register Representation		
1/0#	Gateway	Any Node	I/O Type	Min. Value	Max. Value	Min. (Dec.)	Max. (Dec.)
12	12	12 + (Node# × 16)	Discrete OUT 4 (blue light)	0	1	0	1
15	15	15 + (Node# × 16)	Control Message				
16	16	16 + (Node# × 16)	Reserved				

The NOT Discrete IN register holds the logical NOT of the register value of Discrete IN 1. If Discrete IN 1 has a value of 1, NOT Discrete IN 1 holds a value of 0.

Bind to the Gateway and Assign the Node Address

Before beginning the binding procedure, apply power to all the devices. Separate the devices by two meters when running the binding procedure. Put only one Gateway into binding at a time to prevent binding to the wrong Gateway.

- 1. On the Gateway: Enter binding mode.
 - For housed DX80 Gateways, triple-click button 2 on the Gateway. Both LEDs flash red.
 - For Gateway board modules, triple-click the button. The green and red LED flashes.
- Assign the Q45 a Node address using the Gateway's rotary dials. Use the left rotary dial for the left digit and the right rotary dial for the right digit. For example, to assign your Q45 to Node 10, set the Gateway's left dial to 1 and the right dial to 0. Valid Node addresses are 01 through 47.
- 3. On the Q45: Loosen the clamp plate on the top of the Q45 and lift the cover.
- 4. Enter binding mode on the Q45 by triple-clicking the Q45's button.
 The red and green LEDs flash alternately and the sensor searches for a Gateway in binding mode. After the Q45 is bound, the LEDs stay solid momentarily, then they flash together four times. The Q45 exits binding mode.
- 5. Label the sensor with the Q45's Node address number for future reference.
- 6. Repeat steps 2 through 5 for as many Q45s as are needed for your network.
- 7. On the Gateway: After binding all Q45s, exit binding mode.
 - For housed DX80 Gateways, double-click button 2.
 - For board-level DX80 Gateways, double-click the button.

For Gateways with single-line LCDs: After binding your Q45 to the Gateway, make note of the binding code displayed under the Gateway's *DVCFG menu, XADR submenu on the LCD. Knowing the binding code prevents having to re-bind all Q45s if your Gateway is ever replaced.

Bind to a DXM and Assign the Node Address

Before beginning the binding procedure, apply power to all the devices. Separate the radios by two meters when running the binding procedure. Put only one DXM into binding mode at a time to prevent the Q45 from binding to the wrong Gateway.

- 1. On the DXM: Use the arrow keys to select the ISM Radio menu on the LCD and click ENTER.
- 2. Highlight the Binding menu and click ENTER.
- 3. Use the arrow keys to select the Node address to bind the Q45 to.
- 4. On the Q45: Loosen the top clamp plate and lift the cover.
- 5. Enter binding mode by triple-clicking the binding button. The red and green LEDs flash alternately and the sensor searches for a Gateway in binding mode. After the Node binds, the LEDs stay solid momentarily, then they flash together four times. The Node exits binding mode.
- 6. Label the sensor with the Node address number for future reference.
- 7. On the DXM: Click **BACK** to exit binding for that specific Node address.
- 8. Repeat steps 3 through 7 and change the Node address for as many Q45s as are needed for your network.
- 9. On the DXM: After you have finished forming your network, click **BACK** until you reach the main menu.

Latch/Toggle for Host Systems or Scripting

For most models, use the DIP switches to set latch and toggle modes. Not all models have a DIP switch setting for Latch mode. If your model does not have those DIP switch settings, use the DX80 Performance Configuration Software to enable latch or toggle inputs.

- Set the DIP switch to allow the DX80 Performance Configuration Software to configure the device and ignore the DIP switch settings.
- 2. Connect the Gateway to the computer with the software installed and launch the software.
 - a. Click Device > Connection Settings
 - b. Select appropriate connection type (Serial or TCP).
 - c. Select the correct COMM port or enter the IP Address and click Connect.
- 3. Go to Configuration > Device Configuration.

- 4. For the Node you are configuring, click GET Node to load all of that Node's parameter settings.
- 5. Click on the arrow next to the Node to expand the list of that Node's inputs and outputs.
- 6. For the specific input, click on the arrow next to the input number to expand those parameters.
- 7. Under the Serial options section, select Latch or Toggle or None (momentary) in the Sync Counter's drop-down list.
- 8. Click SEND Node to send the changes to that Node's parameters to the network.

Latch

After an input is activated (set to 1) with a button press or using the messages, the input remains at 1 until cleared or alternated by writing to I/O 15. Latching prevents a successive button press from setting the input to 0.

Toggle

The input toggles between 0 and 1 with successive button pushes or touches. Write to I/O 15 to clear the toggle or to alternate the current state of the toggle.

To change the latch/toggle register value using a host system, write the following to the Node's I/O point 15:

Latch/toggle register values

	Write this decimal value		
For I/O point	To clear the register value	To alternate the state of the latch/toggle register value	
1	5377	5505	
2	5378	5506	
3	5380	5508	
4	5384	5512	
5	5392	5520	
6	5408	5536	
All Points	5439	5567	

IMPORTANT: DO NOT write these values to I/O 15 if the device is used in momentary mode.

Apply Power to the Q45 AA-Cell Models

Follow these instructions to install or replace the lithium "AA" cell batteries.

CAUTION:



- As with all batteries, these are fire, explosion, and severe burn hazards. There is a risk of explosion if the battery is replaced incorrectly.
- Do not burn or expose them to high temperatures. Do not recharge, crush, disassemble, or expose the contents to water.
- Verify the battery's positive and negative terminals align to the positive and negative terminals of the battery holder mounted within the case.
- Properly dispose of used batteries according to local regulations by taking them to a hazardous waste collection site, an e-waste disposal center, or another facility qualified to accept lithium batteries.





- 1. Loosen the clamp plate with a small Phillips screwdriver and lift the cover.
- 2. Slide the battery board out of the Q45 housing.
- 3. If applicable, remove the discharged batteries.
- 4. Install the new batteries.

Use Banner's BWA-BATT-006 replacement batteries or equivalent 3.6 V AA lithium batteries, such as Xeno's XL-60F.

- 5. Verify the battery's positive and negative terminals align to the positive and negative terminals of the battery holder mounted within the case.
- 6. Slide the board containing the new batteries back into the Q45 housing.
- 7. Close the cover and gently tighten the clamp plate with the small Phillips screwdriver.

Specifications

Radio Specifications for Performance with Internal Antenna

Supplied Antenna

This device includes an internal 2 dB antenna. Range depends on the environment and decreases significantly without line-of-sight. Always verify your wireless network's range by performing a Site Survey.

Radio Transmit Power (900 MHz. 1 Watt radios)

Conducted: 30 dBm (1 W)

EIRP with the supplied 2 dB antenna: < 36 dBm

Radio Transmit Power (2.4 GHz radios)

Conducted: < 18 dBm (65 mW)

EIRP with the supplied 2 dB antenna: < 20 dBm (100 mW)

Antenna Minimum Separation Distance

900 MHz (1 Watt): 4.57 m (15 ft) with the supplied 2 dB antenna

2.4 GHz (65 mW): 0.3 m (1 ft) with the supplied 2 dB antenna

Radio Range

900 MHz (in 1 Watt mode): Up to 3.2 km (2 miles) with line of sight (internal antenna)

2.4 GHz: Up to 1000 m (3280 ft) with line of sight (internal antenna)

Link Timeout (Performance)

Gateway: Configurable via User Configuration Software

Node: Defined by Gateway

Spread Spectrum Technology

FHSS (Frequency Hopping Spread Spectrum)

900 MHz Compliance (SX7023EXT Radio Module)

Radio module is indicated by the product label marking Contains FCC ID: UE3SX7023EXT: FCC Part 15, Subpart C, 15 247

Contains IC: 7044A-SX7023EXT

900 MHz Compliance (RM1809 Radio Module)

Radio module is indicated by the product label marking Contains FCC ID: UE3RM1809: FCC Part 15, Subpart C, 15 247

Contains IC: 7044A-RM1809 IFT: RCPBARM13-2283



2.4 GHz Compliance (DX80-2400 Radio Module)

Radio module is indicated by the product label marking Contains FCC ID: UE300DX80-2400: FCC Part 15, Subpart C, 15.247

Radio Equipment Directive (RED) 2014/53/EU

Contains IC: 7044A-DX8024 ANATEL: 15966-21-04042



2.4 GHz Compliance (SX243 Radio Module)

Radio module is indicated by the product label marking Contains FCC ID: UE3SX243: FCC Part 15, Subpart C, 15.247

Radio Equipment Directive (RED) 2014/53/EU

ETSI/EN: EN 300 328 V2.2.2 (2019-07) [RED HarmStds]

Contains IC: 7044A-SX243 ANATEL: 03737-22-04042



Q45BDL Specifications

Construction

Molded reinforced thermoplastic polyester housing, oringsealed transparent Lexan® cover, molded acrylic lenses, and stainless steel hardware. Designed to withstand 1200 psi

Default Sensing Interval

62.5 milliseconds

Operating Conditions

-40 °C to +70 °C (-40 °F to +158 °F); 90% at +50 °C maximum relative humidity (non-condensing)

Button Input

Sample Rate: 62.5 milliseconds Report Rate: On Change of State ON Condition: Button pressed OFF Condition: Button not pressed

Report Rate

On Change of State

Indicators

Red and green LEDs (radio function); amber LED indicates when input 1 is active

Typical Battery Life

Up to 2 years

A typical battery life assumes an average of 20 seconds between sensor changes of state and the default 62.5 millisecond sample rate. Battery life is reduced to 1 year with an average of 2 seconds between changes of state. Battery life with light continuously flashing: 2 months Battery life with light continuously solid: 1.5 weeks

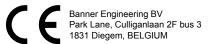
Environmental Rating

IP40

Radiated Immunity HF: 10 V/m (EN 61000-4-3)

Certifications

(CE/UKCA approval only applies to 2.4 GHz models)





FCC Part 15 Class A for Intentional Radiators

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

Industry Canada Statement for Intentional Radiators

This device contains licence-exempt transmitters(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions:

- 1. This device may not cause interference.
- 2. This device must accept any interference, including interference that may cause undesired operation of the device.

Cet appareil contient des émetteurs/récepteurs exemptés de licence conformes à la norme Innovation, Sciences, et Développement économique Canada. L'exploitation est autorisée aux deux conditions suivantes:

- 1. L'appareil ne doit pas produire de brouillage.
- 2. L'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

Mounting Brackets for the Q45BDL

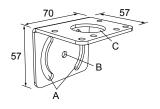
Q45 Wireless sensors can be mounted with double-sided tape or with bracket options below.

SMB30MM

- 12-gauge stainless steel bracket with curved mounting slots for versatile orientation
- Clearance for M6 (¼ in) hardware
 Mounting hole for 30 mm sensor

Hole center spacing: A = 51, A to B = 25.4

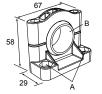
Hole size: A = 42.6 x 7, B = Ø 6.4, C = Ø 30.1



SMB30SC

- Swivel bracket with 30 mm mounting hole for sensor
- · Black reinforced thermoplastic polyester
- Stainless steel mounting and swivel locking hardware included

Hole center spacing: A=ø 50.8 Hole size: A=ø 7.0. B=ø 30.0

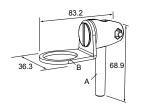


SMB30FA

- · Swivel bracket with tilt and pan movement for precise adjustment
- Mounting hole for 30 mm sensor
- 12-gauge 304 stainless steel
- Easy sensor mounting to extrude rail T-slot
- Metric and inch size bolt available

Bolt thread: SMB30FA, A= 3/8 - 16 x 2 in; SMB30FAM10, A= M10 - 1.5 x 50

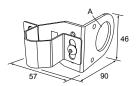
Hole size: B= ø 30.1



SMB30RAVK

- V-clamp, right-angle bracket and fasteners for mounting sensors to pipe or extrusion
- Clamp accommodates 28 mm dia. tubing or 1 in. square extrusions 30 mm hole for mounting sensors

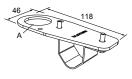
Hole size: A = Ø 30.5



SMB30FVK

- V-clamp, flat bracket and fasteners for mounting to pipe or extensions
- Clamp accommodates 28 mm dia. tubing or 1 in. square extrusions
- 30 mm hole for mounting sensors

Hole size: A= ø 31



Warnings

Exporting Sure Cross® Radios. It is our intent to fully comply with all national and regional regulations regarding radio frequency emissions. Customers who want to re-export this product to a country other than that to which it was sold must ensure the device is approved in the destination country. The Sure Cross wireless products were certified for use in these countries using the antenna that ships with the product. When using other antennas, verify you are not exceeding the transmit power levels allowed by local governing agencies. This device has been designed to operate with the antennas listed on Banner Engineering's website and having a maximum gain of 9 dBm. Antennas not included in this list or having a gain greater than 9 dBm are strictly prohibited for use with this device. The required antenna impedance is 50 ohms. To reduce potential radio interference to other users, the antenna type and its gain should be so chosen such that the equivalent isotropically radiated power (EIRP) is not more than that permitted for successful communication. Consult with Banner Engineering Corp. if the destination country is not on this list.

> IMPORTANT: Please download the complete Wireless Q45BDL Button with Dome Light Node technical documentation, available in multiple languages, from www.bannerengineering.com for details on the proper use, applications, Warnings, and installation instructions of this device.

> IMPORTANT: Por favor descargue desde www.bannerengineering.com toda la documentación técnica de los Wireless Q45BDL Button with Dome Light Node, disponibles en múltiples idiomas, para detalles del uso adecuado, aplicaciones, advertencias, y las instrucciones de instalación de estos dispositivos.

> IMPORTANT: Veuillez télécharger la documentation technique complète des Wireless Q45BDL Button with Dome Light Node sur notre site www.bannerengineering.com pour les détails sur leur utilisation correcte, les applications, les notes de sécurité et les instructions de montage.

WARNING:



- Do not use this device for personnel protection
- Using this device for personnel protection could result in serious injury or death.
- This device does not include the self-checking redundant circuitry necessary to allow its use in personnel safety applications. A device failure or malfunction can cause either an energized (on) or de-energized (off) output condition.

IMPORTANT:

- · Electrostatic discharge (ESD) sensitive device
- ESD can damage the device. Damage from inappropriate handling is not covered by warranty.
- Use proper handling procedures to prevent ESD damage. Proper handling procedures include leaving devices in their anti-static packaging until ready for use; wearing anti-static wrist straps; and assembling units on a grounded, static-dissipative surface.

Banner Engineering Corp Limited Warranty

Banner Engineering Corp. warrants its products to be free from defects in material and workmanship for one year following the date of shipment. Banner Engineering Corp. will repair or replace, free of charge, any product of its manufacture which, at the time it is returned to the factory, is found to have been defective during the warranty period. This warranty does not cover damage or liability for misuse, abuse, or the improper application or installation of the Banner product.

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For patent information, see www.bannerengineering.com/patents.

Notas Adicionales (con Antena)

Información México: La operación de este equipo está sujeta a las siguientes dos condiciones: 1) es posible que este equipo o dispositivo no cause interferencia perjudicial y 2) este equipo debe aceptar cualquier interferencia, incluyendo la que pueda causar su operación no deseada.

Banner es una marca registrada de Banner Engineering Corp. y podrán ser utilizadas de manera indistinta para referirse al fabricante. "Este equipo ha sido diseñado para operar con las antenas tipo Omnidireccional para una ganancia máxima de antena de 6 dBd y Yagi para una ganancia máxima de antena 10 dBd que en seguida se enlistan. También se incluyen aquellas con aprobación ATEX tipo Omnidireccional siempre que no excedan una ganancia máxima de antena de 6dBd. El uso con este equipo de antenas no incluidas en esta lista o que tengan una ganancia mayor que 6 dBd en tipo omnidireccional y 10 dBd en tipo Yagi, quedan prohibidas. La impedancia requerida de la antena es de 50 ohms."

Approved Antennas

BWA-902-C--Antena, Omni 902-928 MHz, 2 dBd, junta de caucho, RP-SMA Macho **BWA-905-C**--Antena, Omni 902-928 MHz, 5 dBd, junta de caucho, RP-SMA Macho **BWA-906-A**--Antena, Omni 902-928 MHz, 6 dBd, fibra de vidrio, 1800mm, N Hembra **BWA-9Y10-A**--Antena, Yagi, 900 MHz, 10 dBd, N Hembra

Mexican Importer

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