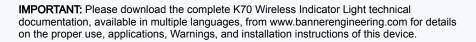
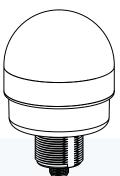


Features

The Sure Cross® K70 Wireless Indicator Light combines the best of Banner's popular Indicator Light family with its reliable, field-proven, Sure Cross wireless architecture.

- · Available in 900 MHz and 2.4 GHz ISM radio frequencies
- · Up to five colors in one device
- · Rugged, water-resistant IP65 housing with UV-stabilized material
- Bright, uniform indicator segments appear gray when off to eliminate false indications from ambient light
- Two-way communication lights can be controlled with the input wires or the client radio
- Input wires can be configured as auxiliary sourcing inputs from external devices or as a 20 Hz, 32bit event counter





IMPORTANT: Por favor descargue desde www.bannerengineering.com toda la documentación técnica de los K70 Wireless Indicator Light, 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 K70 Wireless Indicator Light sur notre site www.bannerengineering.com pour les détails sur leur utilisation correcte, les applications, les notes de sécurité et les instructions de montage.

Models

900 MHz Models					
Model	Connection				
K70DXN9RQ	1	Red			
K70DXN9GRQ	2	Green, Red	Integral 5-pin M12 male quick-disconnect connector		
K70DXN9GYRQ	3	Green, Yellow, Red			
K70DXN9BGYRQ	4	Blue, Green, Yellow, Red	laterant Corin MAC made avial, diagrams at any artist		
K70DXN9WBGYRQ	5	White, Blue, Green, Yellow, Red	Integral 8-pin M12 male quick-disconnect connector		

2.4 GHz Models					
Model	No. of Colors	Colors	Connection		
K70DXN2RQ	1	Red			
K70DXN2GRQ	2	Green, Red	Integral 5-pin M12 male quick-disconnect connector		
K70DXN2GYRQ	3	Green, Yellow, Red			
K70DXN2BGYRQ	4	Blue, Green, Yellow, Red	lateral Code MAC and a suid, discount to a suid.		
K70DXN2WBGYRQ	5	White, Blue, Green, Yellow, Red	Integral 8-pin M12 male quick-disconnect connector		

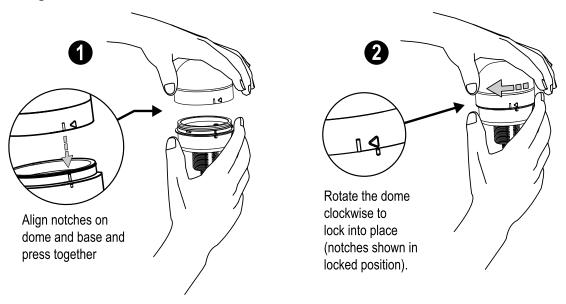
Integral quick disconnect models are listed; a mating corset is required (see).

- To order the 150mm (5.9 in) PVC cable with quick disconnect model, replace the Q with QP in the model number, for example K70DXN9RQP.
- To order the 2 m (6.5 ft) cable models, omit the suffix Q in the model number, for example K70DXN9R.

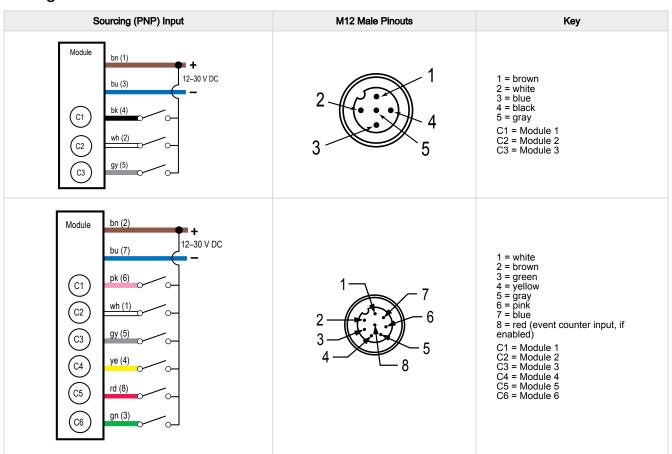


Installation Instructions

Assembling the K70



Wiring

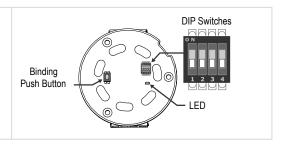


Input wires C1 through C6 can be used to either control the light segments or can be configured as external PNP Inputs. Refer to the DIP switch settings for configuration instructions.

Configuration Instructions

Set the Radio Module DIP Switches

Before applying power to the device, set the radio module's DIP switches. Default configurations are noted with (*).



DIP Switch 1: Radio Transmit Power	900 MHz Models	2.4 GHz Models
OFF *	500 mW (27 dBm) operation	Disabled
ON	250 mW (24 dBm) operation	Disabled

The 900 MHz radios have a high output option that will transmit at 500 mW (27 dBm). The low output option transmits at 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).

DIP Switch 2: Input Wires	900 MHz Models and 2.4 GHz Models
OFF *	Input wires control lights
ON	Disables wired input control of lights and converts wires to auxiliary Inputs

If there are no lights at the end of the input wires to turn on, the inputs still function as a sourcing input.

DIP Switch 3: Event Counter	900 MHz Models and 2.4 GHz Models
OFF *	Default I/O operation
ON	Configure input 5 as a 32-bit synchronous counter at a maximum frequency of 20 Hz; disable input 6 (the counter requires two registers)

The event counter is active for RF firmware revision 5.3 or higher. In the default position (OFF), the input 1 through 6 control the tower lights. When DIP switch 3 is ON, input 5 wire is the counter input and input 6 wire is disabled. Registers 5 and 6 store the 32-bit synchronous counter count. Inputs 5 and 6 are independent from the lights and will not drive any lights they are wired to. Input wires 1 through 4 function normally.

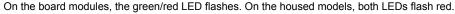
DIP Switch 4: Bit Packing I/O	900 MHz Models and 2.4 GHz Models
OFF *	Default I/O operation
ON	Bit-packed I/O with all inputs in Modbus register 1 and all outputs in Modbus register 9. All other Modbus registers are disabled.

Bit packing is active for RF firmware revision 5.8 or higher. Bit packing uses a single register, or range of contiguous registers, to represent I/ O values. This allows you to read or write multiple I/O values with a single Modbus message. Input 1 is stored in the least significant bit of register 1. Output 1 is stored in the least significant bit of register 9.

Bind the K70 to the Gateway and Assign the Node Address

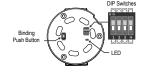
Before beginning the binding procedure, apply power to all the devices.

- Enter binding mode.
 - For housed Gateways, triple-click button 2.
 - For board-level Gateway modules, triple-click the button.
 - For DXMs, under the ISM Radio menu, use the down arrow button to highlight the Binding menu. Click ENTER.



- 2. Assign the K70 a Node address using the Gateway's rotary dials or the DXM's arrow keys.
 - On a Gateway: Use the left rotary dial for the left digit and the right rotary dial for the right digit. For example, to assign your K70 to Node 01, set the left dial to 0 and the right dial to 1.
 - On the DXM: Use the arrow keys to select the Node ID, then press ENTER. The display shows Binding.

Valid Node addresses are 01 through 47.



- 3. Access the circuit board in the radio module of the K70.
- 4. Enter binding mode on the K70 by triple-clicking the binding button.

 The bicolor LED flashes alternately while it searches for a Gateway in binding mode. After the K70 is bound, the LED is red and green for four seconds (looks amber), then it flashes four times (looks amber). The K70 automatically exits binding mode, cycles power, and enters Run mode.
- 5. For DXMs, click **BACK** to exit binding for that specific Node address.
- Label the Node with the assigned address for future references.This makes it easier to identify the physical Node location within a multi-Node network.
- 7. Reassemble the components back onto the base.
- 8. Repeat steps 2 through 5 for as many K70 Wireless Indicator Lights as are needed for your network.
- 9. After binding all K70s, exit binding mode on the Gateway.
 - For housed Gateways, double-click button 2.
 - · For board-level Gateway modules, double-click the button.
 - For DXM models, click **BACK** until you return to the main menu.

LED Behavior for the One LED Nodes

Nodes do not sample inputs until they are communicating with the Gateway. The radios and antennas must be a minimum distance apart to function properly.

Recommended minimum distances are:

900 MHz radio transmitting at ≤ 250 mW: 6 feet 900 MHz radios transmitting at ≥ 500 mW: 15 feet 2.4 GHz radios transmitting at 65 mW: 1 foot

LED (Bi-color)	Node Status
Flashing green	Radio link okay
Green and red flashing alternately	In Binding mode
Both colors are solid for 4 seconds, then flash 4 times; looks amber	Binding mode is complete
Flashing red, once every 3 seconds	Radio link error
Flashing red, once every second	Device error

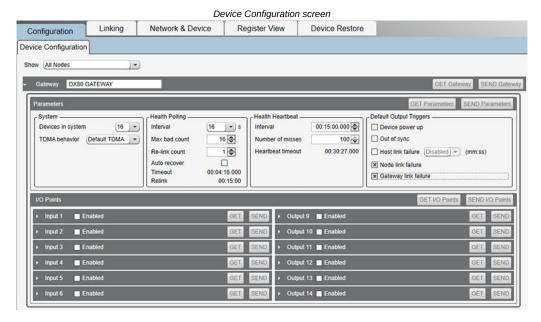
Modes of Operation

Node Controlled. The wireless K70 Node can be operated similar to a wired model where the individual segments are activated by a PLC or manual switch. In this scenario, the Gateway only monitors the status of the light segments. An example application would be remotely monitoring the status of one or multiple machines from a single Gateway.

Gateway Controlled. In the Gateway-controlled mode, the K70 Node only requires 10 V DC to 30 V DC power. Input signals sent from the Gateway have full control over the status of all the segments. An example application would be a call-for-parts application with a K70 Node mounted to a fork truck and the Gateway mounted in a work cell or stock room. When part pick-up or delivery is needed, the operator sends a signal to the fork truck driver. A multicolor K70 could be used when there are multiple pick-up or delivery locations.

DX80 Performance Configuration Software

The configuration software offers an easy way to link I/O points in your wireless network, view I/O register values, and set system communication parameters when a host system is not part of the wireless network. The software runs on any computer with the Windows Vista, Windows 7, Windows 8, or Windows 10 operating system.



Use a USB to RS-485 adapter cable to connect a standalone DX80 Gateway to the computer. For DXM Controllers with an internal DX80 radio, connect a computer to the DXM Controller using the supplied USB or Ethernet connection. Download the most recent revisions of the configuration software from Banner Engineering's website: https://www.bannerengineering.com/us/en/products/wireless-sensor-networks/reference-library/software.html.

The USB to RS-485 adapter cable is not required for the DXM Controller. For standalone DX80 Gateway devices use:

- USB to RS-485 adapter cable model BWA-UCT-900 for 1 Watt radios
- USB to RS-485 adapter cable model BWA-HW-006 for all other radios

Creating Flash Patterns

Use the DX80 Performance Configuration Software to create the flash pattern.

To create a flash pattern:

- 1. Enable the appropriate output if it is not yet enabled.
- 2. Click **GET** to download the input/output current configuration from the device to the configuration software. This automatically populates the Output configuration settings specific to the Node type.
- 3. For this example, configure output 9 is enabled and configured as discrete output 1 (color 1 for this K70 light). Different models may use distinct output types and I/O configuration values.
- 4. Define the flash pattern by selecting the appropriate checkboxes in the **Flash Pattern** section. In this example, the light will flash twice a second.
- 5. Click **SEND** to upload the configuration to the device.

Output 9 X Enabled Discrete Output 1 SEND I/O configuration Analog output mapping Units Discrete 0 -Threshold Invert I/O Hysteresis 0 0 Hold last state Extended parameters Default output 0.00 \$ on/off 0 Counter 0 Switched power options Miscellaneous External Power supply 0 Serial address Output voltage Battery Digital signal conditioning Warmup 00:00:00.000 00:00:00.000 Pulse width Flash Pattern 0ms 1500ms 1750ms XXXX DDD XXXX DDD

Defining a flash pattern for discrete output 1

K70 Modbus Registers

1/0	Modbus Holding Register		I/O Type	I/O F	I/O Range		Holding Register Representation (Dec.)	
	Gateway	Any Node		Min.	Max.	Min.	Max.	
1	1	1 + (Node# × 16)	Discrete IN 1 / Bit-packed inputs	0	1	0	1	C1
2	2	2 + (Node# × 16)	Discrete IN 2	0	1	0	1	C2
3	3	3 + (Node# × 16)	Discrete IN 3	0	1	0	1	С3
4	4	4 + (Node# × 16)	Discrete IN 4	0	1	0	1	C4
5	5	5 + (Node# × 16)	Discrete IN 5 / 32-bit event counter high word	0	1	0	1	C5
6	6	6 + (Node# × 16)	Discrete IN 6 / 32-bit event counter low word	0	1	0	1	-
7	7	7 + (Node# × 16)	Reserved					
8	8	8 + (Node# × 16)	Device Message					
9	9	9 + (Node# × 16)	Discrete OUT 9 / Bit-picked outputs	0	1	0	1	C1
10	10	10 + (Node# × 16)	Discrete OUT 10	0	1	0	1	C2
11	11	11 + (Node# × 16)	Discrete OUT 11	0	1	0	1	C3
12	12	12 + (Node# × 16)	Discrete OUT 12	0	1	0	1	C4
13	13	13 + (Node# × 16)	Discrete OUT 13	0	1	0	1	C5
14	14	14 + (Node# × 16)	Discrete OUT 14 / Zero out (clear) the counter	0	1	0	1	-
15	15	15 + (Node# × 16)	Control Message					
16	16	16 + (Node# × 16)	Reserved					

Use the DX80 Performance Configuration Software to define unique synchronous flash patterns for the lights.

K70 Wireless Indicator Specifications

Supply Voltage and Current

12 V DC to 30 V DC (Outside the USA: 12 V DC to 24 V DC, $\pm 10\%$) (1)

Indicators - Maximum current per LED color:

Blue, Green, White: 200 mA at 12 V DC; 90 mA at 30 V

Red, Yellow: 150 mA at 12 V DC; 75 mA at 30 V DC 900 MHz Consumption: Maximum current draw is < 40 mA and typical current draw is < 30 mA at 24 V DC. (2.4 GHz consumption is less.)

Supply Protection Circuitry

Protected against transient voltages

(1) For European applications, power this device from a Limited Power Source as defined in EN 60950-1.

Indicator Response Time

Off Response: 150 µs (maximum) at 12 V DC to 30 V DC On Response: 180 ms (maximum) at 12 V DC; 50 ms (maximum) at 30 V DC

Construction

Base and cover: polycarbonate

Segment Lumens

Color	Typical Wavelength or Color Temperature	Typical Intensity (Im)
Green	525 nm	65
Red	625 nm	34
Yellow	590 nm	22
Blue	470 nm	22
White	5000 K	87

Indicators

1 to 5 colors depending on model: Green, Red, Yellow, Blue, and White

Radio Range

A 2 dB antenna ships with this device.

Transmit power and range are subject to many factors, including antenna gain, installation methods, characteristics of the application, and environmental conditions.

Please refer to the following documents for installation instructions and high-gain antenna options.

Installing Your Sure Cross® Radios (151514) Conducting a Site Survey (133602) Sure Cross® Antenna Basics (132113)

Minimum Separation Distance

900 MHz radios transmitting at ≥ 500 mW: 4.57 m (15 ft) with the supplied antenna

2.4 GHz radios transmitting at 65 mW: 0.3 m (1 ft) with the supplied antenna

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

Contains IC: 7044A-SX7023EXT

2.4 GHz Compliance (SX243 Radio Module)

Radio module is indicated by the product label marking

Contains FCC ID: UE3SX243

Radio Equipment Directive (RED) 2014/53/EU

Contains IC: 7044A-SX243

Radiated Immunity HF

10 V/m (EN 61000-4-3)

Link Timeout (Performance)

Gateway: Configurable via User Configuration Software

Node: Defined by Gateway

Connections

5-pin M12 quick disconnect, 8-pin M12 quick disconnect, 150 mm (5.9 in) PVC cable with an M12 quick disconnect, or 2 m (6.5 ft) unterminated cable, depending on model

Operating Conditions

-40 °C to +50 °C (-40 °F to +122 °F)

95% at +50 °C maximum relative humidity (non-condensing)

Environmental Rating

IP65

Vibration and Mechanical Shock

Vibration: 10 Hz to 55 Hz, 0.5 mm peak-to-peak amplitude per IEC 60068-2-6

Shock: 15G 11 ms duration, half sine wave per IEC 60068-2-27

Certifications

CE/UKCA approval only applies to 2.4 GHz models



Banner Engineering BV Park Lane, Culliganlaan 2F bus 3 1831 Diegem, BELGIUM



Turck Banner LTD Blenheim House Blenheim Court Wickford, Essex SS11 8YT GREAT BRITAIN





03737-22-04042

Required Overcurrent Protection



WARNING: Electrical connections must be made by qualified personnel in accordance with local and national electrical codes and regulations.

Overcurrent protection is required to be provided by end product application per the supplied table.

Overcurrent protection may be provided with external fusing or via Current Limiting, Class 2 Power Supply.

Supply wiring leads < 24 AWG shall not be spliced.

For additional product support, go to www.bannerengineering.com.

Supply Wiring (AWG)	Required Overcurrent Protection (A)	Supply Wiring (AWG)	Required Overcurrent Protection (A)
20	5.0	26	1.0
22	3.0	28	0.8
24	1.0	30	0.5

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.

(Part 15.21) Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

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.

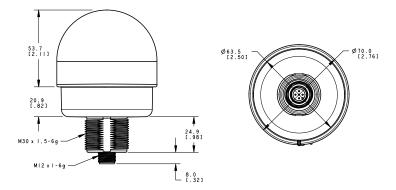
ANATEL

Este equipamento não tem direito à proteção contra interferência prejudicial e não pode causar interferência em sistemas devidamente autorizados. Para maiores informações, consulte o site da ANATEL www.gov.br/anatel/pt-br/



Dimensions

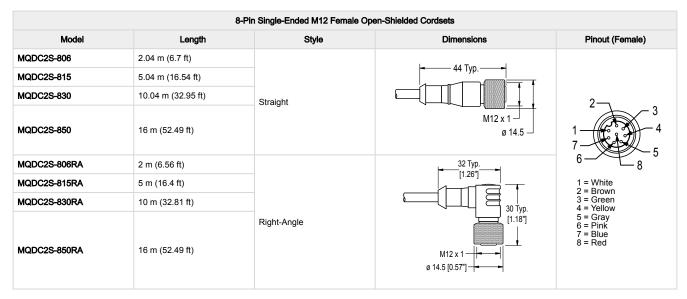
All measurements are listed in millimeters [inches], unless noted otherwise. The measurements provided are subject to change. Dimensions for the quick disconnect model are shown.



Accessories

Cordsets

5-Pin Single-Ended M12 Female Cordsets						
Model	Length	Style	Dimensions	Pinout (Female)		
MQDC1-501.5	0.5 m (1.5 ft)					
MQDC1-503	0.9 m (2.9 ft)			1 0000 3		
MQDC1-506	2 m (6.5 ft)					
MQDC1-515	5 m (16.4 ft)	Straight				
MQDC1-530	9 m (29.5 ft)		M12 x 1			
MQDC1-560	18 m (59 ft)		ø 14.5 [⊥]			
MQDC1-5100	31 m (101.7 ft)					
MQDC1-506RA	2 m (6.5 ft)		22.7	1 = Brown 2 = White 3 = Blue 4 = Black 5 = Gray		
MQDC1-515RA	5 m (16.4 ft)		32 Typ. [1.26"]			
MQDC1-530RA	9 m (29.5 ft)					
MQDC1-560RA	19 m (62.3 ft)	Right-Angle	30 Typ. [1.18"] M12 x 1 Ø 14.5 [0.57"]			



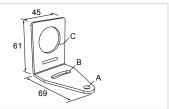
All measurements are listed in millimeters, unless noted otherwise. The measurements provided are subject to change.

Mounting Brackets

SMB30A

- Right-angle bracket with curved slot for versatile orientation
- Clearance for M6 (1/4 in) hardware
- Mounting hole for 30 mm sensor
- 12-gauge stainless steel

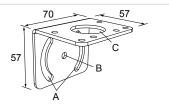
Hole center spacing: A to B=40 Hole size: A= \emptyset 6.3, B= 27.1 × 6.3, C= \emptyset 30.5



SMB30MM

- 12-gauge stainless steel bracket with curved mounting slots for versatile orientation Clearance for M6 ($^{1}\!\!\!/$ in) hardware
- Mounting hole for 30 mm sensor

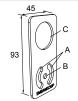
Hole center spacing: A = 51, A to B = 25.4 Hole size: A = 42.6×7 , B = \emptyset 6.4, C = \emptyset 30.1



SMBAMS30P

- Flat SMBAMS series bracket
- 30 mm hole for mounting sensors
- Articulation slots for 90°+ rotation
- 12-gauge 300 series stainless steel

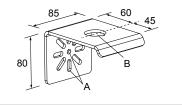
Hole center spacing: A=26.0, A to B=13.0 Hole size: A=26.8 \times 7.0, B= \emptyset 6.5, C= \emptyset 31.0



SSA-MBK-EEC1

- · Single 30 mm hole
- 8 gauge steel, black finish (powder coat)
- Front surface for customer-applied labels

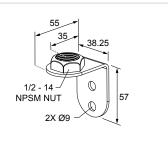
Hole size: $A = \emptyset 7$, $B = \emptyset 30$



LMBE12RA35

- Direct mounting of stand-off pipe, with common bracket type
 Zinc-plated steel
 1/2-14 NPSM nut
 Mounting distance from the wall to the center of the 1/2-14 NPSM nut is 35 mm

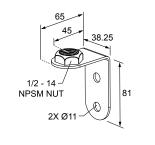
Hole center spacing: 20.0



LMBE12RA45

- · Direct mounting of stand-off pipe, with common bracket type
- Zinc-plated steel
- 1/2-14 NPSM nut
- Mounting distance from the wall to the center of the 1/2-14 NPSM nut is 45 mm

Hole center spacing: 35.0



All measurements are listed in millimeters, unless noted otherwise. The measurements provided are subject to change.

Elevated Mount System

	Model		Description	Components
SA-M30 - Black Polycarbonate			Streamlined black PC or Gray PC thread cover	
SA-M30C - Gray Polycarbonate		 Covers M30 thread on the light base Mounting hardware included 		
Polished 304 Stainless Steel	Black Anodized Aluminum	Clear Anodized Aluminum		
SOP-E12-150SS	SOP-E12-150A	SOP-E12-150AC	Flooring to the day of the (1/1) NIROM(RNIA)	
150 mm (6 in) long	150 mm (6 in) long	150 mm (6 in) long	 Elevated-use stand-off pipe (½ in. NPSM/DN15) Polished 304 stainless steel, black anodized aluminum, 	
SOP-E12-300SS	SOP-E12-300A	SOP-E12-300AC	or clear anodized aluminum surface '½ in. NPT thread at both ends	
300 mm (12 in) long	300 mm (12 in) long	300 mm (12 in) long	Compatible with most industrial environments	
SOP-E12-900SS	SOP-E12-900A	SOP-E12-900AC		T
900 mm (36 in) long	900 mm (36 in) long	900 mm (36 in) long		
SA-E12M30 - Black Aceta	I		Streamlined black acetal or white UHMW mounting base	
SA-E12M30C - White UHI	MW		adapter/cover Connects between ½ in. NPSM/DN15 pipe and 30 mm (1-3/16 in) drilled hole Mounting hardware included	

Pipe Mounting Flange					
Model	Description	Construction			
SA-F12	 Elevated-use stand-off pipes (½ in, NPSM/DN15) M5 mounting hardware and nitrile gasket included 	Die-cast zinc base with black paint	1/2-14 NPSM 4x ø5.5 070		

Foldable Mounting Brackets					
Model	Description	Construction			
SA-FFB12		Black polycarbonate	1/2-14 NPSM		
SA-FFB12C	 For use with 1/2 inch stand-off pipes Stainless steel hardware 	Gray polycarbonate	070 4 x Ø5		

LMB Sealed Right-Angle Brackets

Model	Description	
LMB30RA - Black polycarbonate LMB30RAC - Gray polycarbonate	 Direct-Mount Models Bracket kit with base, 30 mm adapter, set screw, fasteners, O-rings, and gaskets. 	
LMBE12RA - Black polycarbonate LMBE12RAC - Gray polycarbonate	 Pipe-Mount Models Bracket kit with base, ½-14 pipe adapter, set screw, fasteners, O-rings, and gaskets For use with stand-off pipe (listed and sold separately) 	

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.

THIS LIMITED WARRANTY IS EXCLUSIVE AND IN LIEU OF ALL OTHER WARRANTIES WHETHER EXPRESS OR IMPLIED (INCLUDING, WITHOUT LIMITATION, ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE), AND WHETHER ARISING UNDER COURSE OF PERFORMANCE, COURSE OF DEALING OR TRADE USAGE.

This Warranty is exclusive and limited to repair or, at the discretion of Banner Engineering Corp., replacement. IN NO EVENT SHALL BANNER ENGINEERING CORP. BE LIABLE TO BUYER OR ANY OTHER PERSON OR ENTITY FOR ANY EXTRA COSTS, EXPENSES, LOSSES, LOSS OF PROFITS, OR ANY INCIDENTAL, CONSEQUENTIAL OR SPECIAL DAMAGES RESULTING FROM ANY PRODUCT DEFECT OR FROM THE USE OR INABILITY TO USE THE PRODUCT, WHETHER ARISING IN CONTRACT OR WARRANTY, STATUTE, TORT, STRICT LIABILITY, NEGLIGENCE, OR OTHERWISE.

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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 omms."

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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