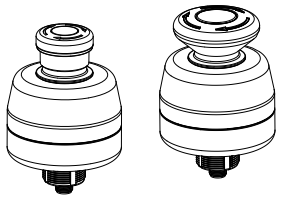
SSA-EB1PLxx-02ECQ5 Series Emergency Stop Push Button

Features

Illuminated Safety BUS Gateway Compatible 30 mm Mount Electro-mechanical Push Buttons



- Designed to interface with Safety BUS nodes/gateways
- Rugged design; easy installation with no assembly or individual wiring required
- Push-to-stop, twist-to-release, or pull-to-release operation per EN 60947-5-5
- Models with the washdown cover are push-to-stop and pull-to-release operation per EN 60947-5-5
- Latching design complies with ISO 13850; direct (positive) opening operation per EN 60947-5-1
- Compliant with ANSI B11.19, NFPA 79, and IEC/EN 60204-1 Emergency Stop requirements
- “Safe Break Action” ensures normally closed (NC) contacts will open if the contact block is separated from the actuator
- 5-pin M12 quick disconnect
- Models with yellow and red indication of actuation (armed or depressed/latched button)
- "Emergency Stop" legend included
- U.S. Patent No. Des. 700,149
- FDA-grade silicone cover withstands high pressure, high-temperature washdown, and increases the product rating to IP69; the cover is ECOLAB® certified to withstand aggressive cleaning procedures with chemicals used in the food processing industry

SSA-EB... series models are "mushroom-style" electro-mechanical emergency stop push buttons. When the button is armed, the switch's safety contacts (normally closed/NC) are closed and its monitoring contacts (normally open/NO), if present, are open. When the button is pushed, the switch's safety contacts open, and the monitoring contacts close. The contacts remain in this condition until the push button is manually rearmed by twisting clockwise the red push button actuator.

The SSA-EB1PL Series Emergency Stop Button series has a 30 mm mounting base similar to Banner’s OTB, VTB, and STB Optical Touch Buttons for ease of mounting without requiring an additional enclosure. The illuminated models provide indication of an armed button and a pushed/actuated button (indication is dependent on model). The red indication allows for easy identification of a pushed/actuated button.

Models

Model	EZ-LIGHT® Illumination Logic and Description	Connection
SSA-EB1PL-02ECQ5A	OFF (armed), RED (solid, PUSH)	Integral 5-pin M12 male quick-disconnect connector Safety BUS node compatible(1) CH1 = pins 1 & 2 CH2 = pins 4 & 5
SSA-EB1PLXR-02ECQ5A	OFF (armed), RED (flash, PUSH)	
SSA-EB1PLYR-02ECQ5A	YELLOW (armed) & RED (flash, PUSH)	
SSA-EB1PL2-02ECQ5A	Illuminated button, OFF (armed), RED (solid, PUSH ON)	
SSA-EB1PL-02ECQ5B	OFF (armed), RED (solid, PUSH)	Integral 5-pin M12 male quick-disconnect connector Safety BUS node compatible(2) CH1 = pins 1 & 4 CH2 = pins 2 & 5
SSA-EB1PLXR-02ECQ5B	OFF (armed), RED (flash, PUSH)	
SSA-EB1PLYR-02ECQ5B	YELLOW (armed) & RED (flash, PUSH)	
SSA-EB1PL2-02ECQ5B	Illuminated button, OFF (armed), RED (solid, PUSH ON)	

Additional models available. For non-illuminated models, see http://www.bannerenginnering.com and search for 162755.

Important... Read this before proceeding!

The user is responsible for satisfying all local, state, and national laws, rules, codes, and regulations relating to the use of this product and its application. Banner Engineering Corp. has made every effort to provide complete application, installation, operation, and maintenance instructions. Please contact a Banner Applications Engineer with any questions regarding this product.

The user is responsible for making sure that all machine operators, maintenance personnel, electricians, and supervisors are thoroughly familiar with and understand all instructions regarding the installation, maintenance, and use of this product, and with the machinery it controls. The user and any personnel involved with the installation and use of this product must be thoroughly familiar with all applicable standards, some of which are listed within the specifications. Banner Engineering Corp. makes no claim regarding a specific recommendation of any organization, the accuracy or effectiveness of any information provided, or the appropriateness of the provided information for a specific application.

(1) Compatible with AllenBradley ArmorBlock® 1732DS Safe DeviceNet and 1732ES Safe EtherNet/IP remote I/O
(2) Compatible with Siemens ET 200pro PROFIsafe gateway and with Turck models TBIP-Lx-FDIO1-2IOL, TBPN-Lx-FDIO1-2IOL, or TBIP-Lx-4FDI-4FDX, TBPN-Lx-4FDI-4FDX. Value of x defines the power supply plug.

Original Instructions
11-Feb-26

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164714
p/n: 164714 Rev. K

ПРОМЭЛЕКТРОНИКА/ sales@prom-elec.com

WARNING:
- **Not a safeguarding device**
- Failure to follow these instructions could result in serious injury or death.
- This device is not considered a safeguarding device because it requires an overt action by an individual to stop machine motion or hazards. A safeguarding device limits or eliminates an individual's exposure to a hazard without action by the individual or others. This device cannot be substituted for required safeguarding. Refer to the applicable standards to determine those requirements.

EU/UK Declaration of Conformity (DoC)

Banner Engineering Corp. herewith declares that these products are in conformity with the provisions of the listed directives and all essential health and safety requirements have been met. For the complete DoC, please go to www.bannerengineering.com.

Product	Directive
SSA-EB1PL Series Emergency Stop Button	EU: Machinery Directive 2006/42/EC; Low Voltage Directive 2014/35/EU
	UKCA: Machinery (Safety) Regulation 2008

Representative in EU: Spiros Lachandidis, Managing Director, **Banner Engineering BV** Park Lane | Culliganlaan 2F bus 3 | 1831 Diegem, BELGIUM

Representative in UK: Tony Coghlan, Managing Director, **Turck Banner LTD** Blenheim House | Blenheim Court | Wickford, Essex SS11 8YT | Great Britain

Emergency Stop Considerations

NFPA 79, ANSI B11.19, IEC/EN 60204-1, and ISO 13850 specify emergency stop requirements, including the following:
- Emergency-stop push buttons shall be located at each operator control station and at other operating stations where emergency shutdown is required.
- Stop and emergency-stop push buttons shall be continuously operable and readily accessible from all control and operating stations where located. Do not mute or bypass E-stop buttons.
- Actuators of emergency-stop devices shall be colored red. The background immediately around the device actuator shall be colored yellow (where possible). The actuator of a push-button-operated device shall be of the palm or mushroom-head type.
- The emergency-stop actuator shall be a self-latching type.

WARNING:
- **Do not mute or bypass any emergency stop device**
- Muting or bypassing the safety outputs renders the emergency stop function ineffective.
- ANSI B11.19, NFPA 79 and IEC/EN 60204-1 require that the emergency stop function remains active at all times.

WARNING:
- **Connect two or more devices to the same safety module (controller) in series**
- Connecting devices in parallel defeats the switch contact monitoring ability of the module and creates an unsafe condition that could result in serious injury or death.
- Failure to test each device individually in this manner could result in undetected faults and create an unsafe condition that could result in serious injury or death.
- Connect the contacts of the corresponding pole of each switch in series. Never connect the contacts of multiple switches in parallel. Individually actuate (engage) each device, then release (or re-arm) and reset the safety module. This allows the module to check each switch and its wiring to detect faults. Perform this check during the prescribed checkouts.

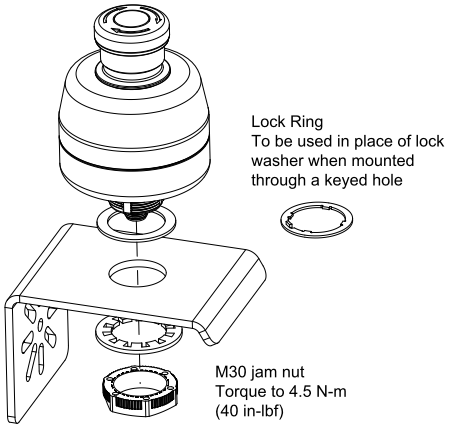
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Installation and Maintenance

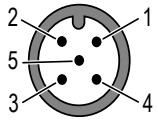
Install the device so that operation is not impeded, but should be protected against inadvertent operation (for example, accidental actuation by being bumped or leaned against). Do not operate the switch using a tool. Do not expose the switch to excessive shocks and vibrations, otherwise the switch may be deformed or damaged, causing malfunction or operation failure. Hardware includes jam nut, lock washer, lock ring, and seal washer. The lock ring may be used to prevent switch rotation if a 5 mm hole keyway is provided in the 30 mm mounting hole. The threaded base contains external M30 threads for the supplied jam nut, as well as internal 1/2-14 NPSM threads for an alternate mounting option.

Electrical installation must be made by qualified personnel[3] and must comply with NEC (National Electrical Code), NFPA 79 or IEC/EN 60204-1, and all applicable local standards. It is not possible to give exact wiring instructions for a device that interfaces to a multitude of machine control configurations. The following is general in nature; it is recommended to perform a risk assessment to ensure appropriate application, interfacing/hookup, and risk reduction (see ISO 12100 or ANSI B11.0).

Mounting the ..ECQ (30 mm) models



SSA-EB1PLxx-02ECQ5A [4] and SSA-EB1PLxx-02ECQ5B [5]

Pin	Color	-02ED1Q5A		-02ED1Q5B		Pinout
		Function	Contacts	Function	Contacts	
1[6]	Brown	CH1a	N.C.	CH1b	N.C.	
2	White	CH1b	N.C.	CH2a	N.C.	
3	Blue	0 V DC		0 V DC		
4	Black	CH2a	N.C.	CH1a	N.C.	
5	Gray	CH2b	N.C.	CH2b	N.C.	

WARNING:

- **Risk of electric shock**
- Use extreme caution to avoid electrical shock. Serious injury or death could result.
- Always disconnect power from the safety system (for example, device, module, interfacing, etc.), guarded machine, and/or the machine being controlled before making any connections or replacing any component. Lockout/tagout procedures might be required. Refer to OSHA 29CFR1910.147, ANSI Z244-1, or the applicable standard for controlling hazardous energy.
- Make no more connections to the device or system than are described in this manual. Electrical installation and wiring must be made by a Qualified Person[7] and must comply with the applicable electrical standards and wiring codes, such as the NEC (National Electrical Code), NFPA 79, or IEC 60204-1, and all applicable local standards and codes.

Checkout

At machine set up, a *Designated Person*[8] should test each safety point for proper machine shutdown response. A *Designated Person* should check the safety point for proper operation, physical damage, button looseness, and excessive environmental contamination. This should take place on a periodic schedule determined by the user, based on the severity of the operating environment and the frequency of switch actuations.

Adjust, repair, or replace components as needed. If inspection reveals contamination on the switch, thoroughly clean the switch and eliminate the cause of the contamination. Replace the switch and/or appropriate components when any parts or assemblies are damaged, broken, deformed, or badly worn; or if the electrical/mechanical specifications (for the environment and operating conditions) have been exceeded.

---

[3] A Qualified Person possesses a recognized degree or certificate or has extensive knowledge, training, and experience to solve problems relating to the emergency stop installation.
[4] *Compatible with AllenBradley ArmorBlock® 1732DS Safe DeviceNet remote I/O.*
[5] *Compatible with Siemens ET 200pro PROFIsafe gateway.*
[6] Pin 1 on all models requires power from the node/gateway for the EZ-LIGHT™ illumination logic (see LED Voltage/Current specifications). User must verify interconnection compatibility.
[7] A person who, by possession of a recognized degree or certificate of professional training, or who, by extensive knowledge, training and experience, has successfully demonstrated the ability to solve problems relating to the subject matter and work.
[8] A *Designated Person* is identified in writing by the employer as being appropriately trained to perform a specified checkout procedure. A Qualified Person possesses a recognized degree or certificate or has extensive knowledge, training, and experience to solve problems relating to the emergency stop installation.

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Always test the control system for proper functioning under machine control conditions after performing maintenance, replacing the safety point, or replacing any component of the device.

Install the Silicone Cover

To properly install the FDA-grade silicone cover and achieve an IP69 rating, follow these instructions.

1. Turn the cover inside-out, except for the top portion the button fits into.
2. Place the cover on top of the emergency stop unit.
3. Roll the cover onto the E-stop unit.
4. Continue rolling the cover down, around the base of the E-stop unit, until the entire unit is covered.
5. Mount the E-stop unit and cover assembly to a bracket wide enough to cover the assembly base. The cover should be clamped firmly between the E-stop unit and the bracket.



NOTE: This cover is suitable for applications with pull-to-release resetting methods.

NOTE: The FDA-grade silicone cover withstands high pressure, high-temperature washdown, and increases the product rating to IP69. The cover is ECOLAB® certified to withstand aggressive cleaning procedures with chemicals used in the food processing industry.

Specifications

Housing / Button

Polycarbonate / Polyamide

Threaded base has M30 by 1.5 external threads; Maximum Tightening Torque: 4.5 N·m (40 in·lbf)

Operating Conditions

–25 °C to +55 °C (–13 °F to +131 °F)

45% to 85% relative humidity (no condensation)

Environmental Rating

For Indoor Use Only

UL Type 4X and UL Type 13

IP65 (IEC 60529), and IP69 with SSA-EB1P-ECWC cover installed

Insulation Resistance

100 MΩ minimum (500 V DC megger)

Impulse Withstand Voltage

2.5 kV

Pollution Degree

3

Output Configuration

See "Installation and Maintenance" on page 3

Overvoltage Category

II

Contact Material/Bounce

Gold plated silver / 20 ms

When the button is reset, the normally closed contacts will chatter. When pressing the button, the normally open contacts will chatter. When designing a control circuit, take the contact chatter time into consideration. Do not expose the switch to external shocks, otherwise the contacts will bounce.

Electrical Life

100,000 operations minimum, 250,000 operations minimum at 24 V AC/DC, 100 mA

Mechanical Life

250,000 operations

Shock Resistance

Operating extremes: 150 m/s^2 (15G)

Vibration Resistance

Operating extremes: 10 Hz to 500 Hz, amplitude 0.35 mm acceleration 50 m/s^2

Illuminated Base

LED Color: Yellow - 590 nm, Red - 618 nm

LED Flash Rate: 1.6 Hz at 50% duty cycle

LED Voltage/Current: 12 V DC to 30 V DC; 120 mA at 12 V DC, 65 mA at 24 V DC, 60 mA at 30 V DC

Illuminated Button

LED Color: Red

LED Voltage/Current: 24 V AC/DC ± 10%; 15 mA

Electrical Rating

Minimum load: 1 mA at 5 V AC/DC

SSA-EB1PLxx-..Q5: 3 A at 250 V AC maximum

UL Applications: 1.5 A at 250 V AC, 1 A at 30 V DC (pilot duty)

CE Applications: AC-15: 1.5 A at 250 V AC, DC-13: 1 A at 30 V DC

Rated Insulation Voltage (Ui)

250 V

Rated Current (Ith)

3A

B10d

100,000 (based on ISO13849-1)

Design and Application Standards

Compliant with EN 60497-1 / -5-1, ISO 13850, ANSI B11.19, NFPA 79, IEC/EN 60204-1

Date code format (U.S. Standard Format)

YYWWX: 2-digit year, 2-digit week, "X" internal code

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Certifications

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

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.

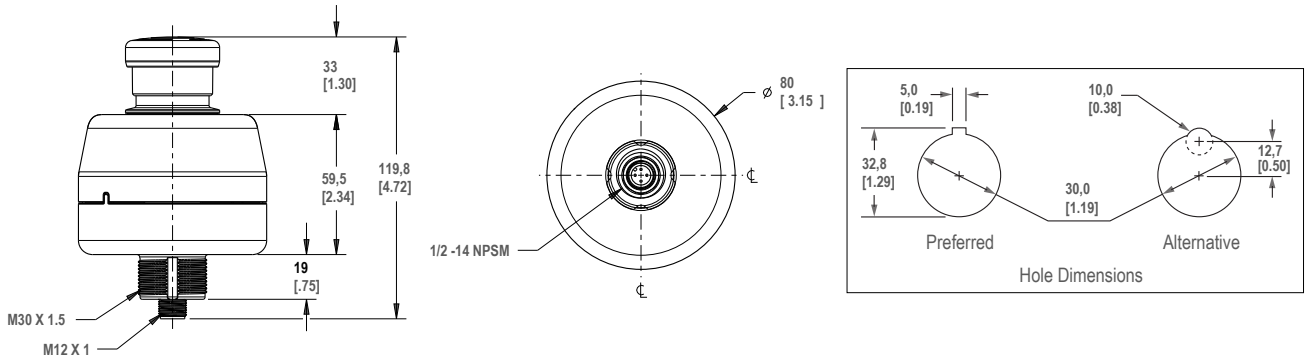
Supply Wiring (AWG)	Required Overcurrent Protection (A)	Supply Wiring (AWG)	Required Overcurrent Protection (A)
20	5.0	26	1.0
22	3.0	28	0.8
24	2.0	30	0.5

Rated Operating Current and Voltage (Ue)

Safety Contact (N.C.)		30 V	125 V	250 V
AC 50/60 Hz	Resistive Load (AC-12)	-	-	3 A
	Inductive Load (AC-15)	-	3 A	1.5 A
DC	Resistive Load (DC-12)	2 A	0.4 A	0.2 A
	Inductive Load (DC-13)	1 A	0.22 A	0.1 A

The operating current is classified according to EN 60947-5-1 making and breaking capacities and are measured at resistive/inductive load types specified in EN 60947-5-1. See "Electrical Rating" above for specific model and UL/CE maximum ratings.

Dimensions



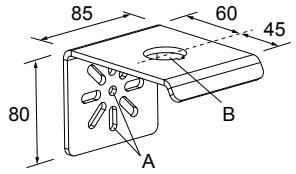
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Accessories

Mounting Brackets

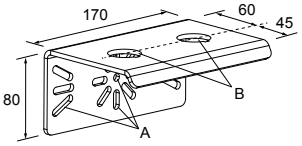
SSA-MBK-EEC1
- Single 30 mm hole
- 8 gauge steel, black finish (powder coat)
- Front surface for customer-applied labels
- CAD Files: DXF, PDF, IGS, STP

Hole size: A = ø 7 , B = ø 30



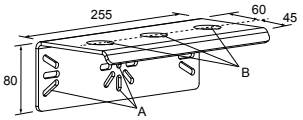
SSA-MBK-EEC2
- Two 30 mm holes
- 8 gauge steel, black finish (powder coat)
- Front surface for customer-applied labels
- CAD Files: DXF, PDF, IGS, STP

Hole size: A = ø 7 , B = ø 30



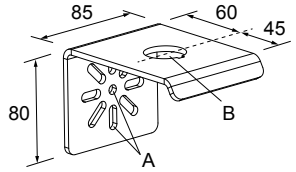
SSA-MBK-EEC3
- Three 30 mm holes
- 8 gauge steel, black finish (powder coat)
- Front surface for customer-applied labels
- CAD Files: DXF, PDF, IGS, STP

Hole size: A = ø 7 , B = ø 30



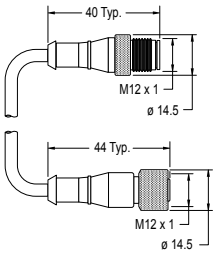
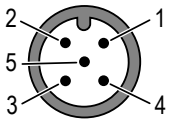
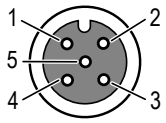
SSA-MBK-EEC1-SS
- Single 30 mm hole
- 8 gauge 316 stainless steel
- Front surface for customer-applied labels
- CAD Files: DXF, PDF, IGS, STP

Hole size: A = ø 7 , B = ø 30



The SSA-MBK-EECx brackets offer:
- Horizontal and vertical (post) mounting
- Interchangeable positions of mounted devices (e.g. OTB/STB/VTB, E-Stop, K50s)

5-pin M12 Double-Ended Cordsets

5-Pin Double-Ended M12 Female to M12 Male Cordsets					
Model	**Length**	**Style**	**Dimensions**	**Pinout (Male)**	**Pinout (Female)**
DEE2R-51D	0.3 m (1 ft)	Female Straight/Male Straight		 1 = Brown 2 = White 3 = Blue	 4 = Black 5 = Green/Yellow
DEE2R-53D	0.91 m (3 ft)				
DEE2R-58D	2.44 m (8 ft)				
DEE2R-515D	4.57 m (15 ft)				
DEE2R-525D	7.62 m (25 ft)				
DEE2R-550D	15.2 m (50 ft)				
DEE2R-575D	22.9 m (75 ft)				
DEE2R-5100D	30.5 m (100 ft)				

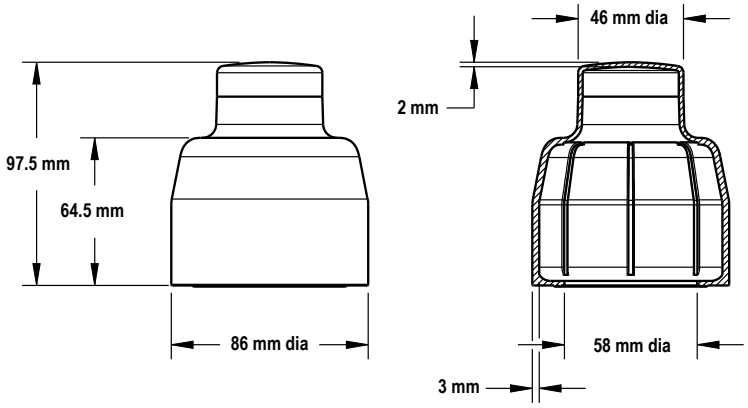
See Banner Engineering catalog or go to www.bannerengineering.com for additional models and complete information.

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Washdown Silicone Cover SSA-EB1P-ECWC

To order a model with the washdown cover installed, add "**-WC**" to the model number. For example, **SSA-EB1PL-02ECQ5A-WC**.

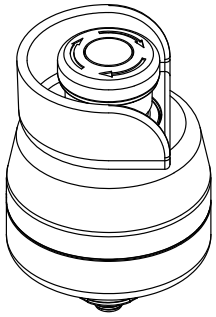
Washdown Cover Model	For Push Button Models	Description
SSA-EB1P-ECWC	Standard 40 mm	FDA-grade silicone cover



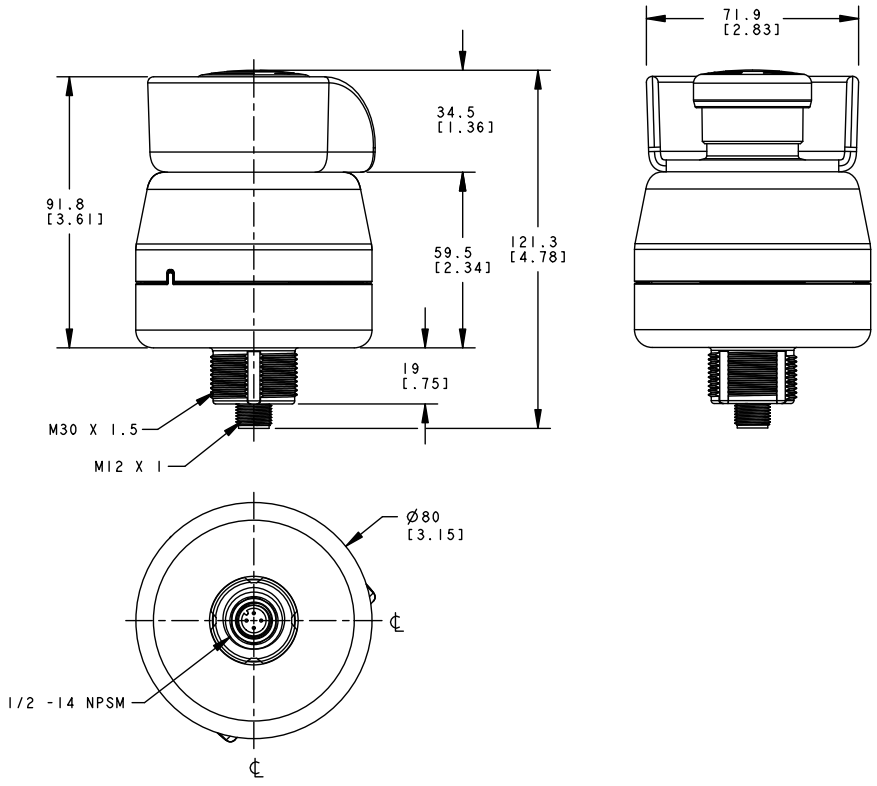
Pre-Installed Shroud

To order a unit with a shroud (model **ESC-1-YW**) pre-installed, the model number has an **S1** inserted after the LED color characters (for example **SSA-EB1PLYR-02ECQ5A** becomes **SSA-EB1PLYRS1-02ECQ5A**). Contact Banner Engineering for availability.

SSA-EB1PLxx-02ECQ5 E-Stop with a Shroud



Dimensions for the SSA-EB1PLxx-02ECQ5 E-stop button with shroud



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Product Support and Maintenance

Repairs and Translations

Contact Banner Engineering for troubleshooting of this device. **Do not attempt any repairs to this Banner device; it contains no field-replaceable parts or components.** If the device, device part, or device component is determined to be defective by a Banner Applications Engineer, they will advise you of Banner's RMA (Return Merchandise Authorization) procedure.

> **IMPORTANT:** If instructed to return the device, pack it with care. Damage that occurs in return shipping is not covered by warranty.

Obtain assistance with product repairs by contacting your local Banner Engineering Corp distributor or by calling Banner directly at (763) 544-3164. Access literature translated into your native language on the Banner website at www.bannerengineering.com or contact Banner directly at (763) 544-3164.

Para reparaciones de productos, por favor contacte a su distribuidor local de Banner Engineering o llame a Banner directamente al 00 1 (763) 544-3164. Vea la literatura traducida en su idioma en el sitio web Banner en www.bannerengineering.com o comuníquese con Banner directamente al 00 1 (763) 544-3164.

Pour vous aider lors de la réparation de produits, contactez votre distributeur Banner local our appelez directement Banner au (763) 544-3164. La documentation traduite dans votre langue est disponible sur le site internet de Banner www.bannerengineering.com ou contactez directement Banner au (763) 544-3164.

请联系当地的 Banner Engineering Corp 经销商或直接致电 Banner +1 (763) 544-3164，以获得产品维修帮助。请访问邦纳网站 www.bannerengineering.com 或直接拨打 +1 (763) 544-3164 联系邦纳，获取翻译成您母语的资料。

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Contact Us

Banner Engineering Corp. | 9714 Tenth Avenue North | Plymouth, MN 55441, USA | Phone: + 1 888 373 6767

For worldwide locations and local representatives, visit www.bannerengineering.com.

Banner Engineering Corp Limited Warranty

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Standards and Regulations

The list of standards below is included as a convenience for users of this device. Inclusion of the standards below does not imply that the device complies specifically with any standard, other than those specified in the Specifications/Design Standards section of this manual. See the American National Standards Institute (ANSI) at https://webstore.ansi.org/ or another source for applicable documents.

Applicable U.S. Standards

Not inclusive

ANSI B11 Standards for Machine Tools Safety

ANSI/RIA R15.06 Safety Requirements for Industrial Robots and Robot Systems

NFPA 79 Electrical Standard for Industrial Machinery

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ANSI/PMMI B155.1 Package Machinery and Packaging-Related Converting Machinery — Safety Requirements

ANSI/ASSP Z244.1-2024 The Control of Hazardous Energy – Lockout, Tagout, and Alternative Methods

OSHA 29 CFR 1910 Occupational Safety and Health Standards

Applicable European and International Standards

Not Inclusive

ISO 12100 Safety of Machinery – General Principles for Design – Risk Assessment and Risk Reduction

EN 60204-1 Electrical Equipment of Machines Part 1: General Requirements

ISO 13849-1 Safety of Machinery – Safety-Related Parts of Control Systems – Part 1: General Principles for Design

IEC 61508 Functional Safety of Electrical/Electronic/Programmable Electronic Safety-Related Systems

IEC 62061 Safety of Machinery – Functional Safety of Safety-Related Control Systems

ISO 13850 Emergency Stop Devices, Functional Aspects – Principles for Design

EN 13855 The Positioning of Protective Equipment in Respect to Approach Speeds of Parts of the Human Body

ISO 13857 Safety of Machinery – Safety Distances to Prevent Hazard Zones Being Reached

ISO 14119 Interlocking Devices Associated with Guards – Principles for Design and Selection

ISO 14120 Safety of machinery – Guards – General requirements for the design and construction of fixed and movable guards

Acquire a type C standard for your specific machinery.

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