



Emergency Stop Buttons

Push-to-stop/twist-to-release Emergency Stop palm buttons are available in panel-mount or remotely located IP65 enclosures. Illuminated models help operators quickly identify actuated buttons, allowing for a quick return to normal operations.

Series	Description	Options	Mounting	Dimensions H x W x D	Protection Rating
	Easy to install 30 mm mount. page 752	Non-Illuminated Illuminated	30 mm	119.8 x ø 80 mm	IP65
	Flat mount with wide variety of options. page 753	Non-Illuminated Illuminated Non-Illuminated Locking Illuminated Locking	Flat mount	102.1 x 80.8 x 80.3 mm	IP65
	Panel mount E-Stop buttons. page 764	Non-Illuminated Illuminated Locking Illuminated Locking	Panel	Varies by model	IP65
	Mechanical E-Stop button kits. page 768	High current Metal shaft	Panel or flat	106 x 70 x 70 mm	IP65



E-Stop Buttons Illuminated 30 mm Mount

Illumination allows for easy identification of which E-stop has been activated.

- Easy installation and no assembly or individual wiring required
- Push-to-stop, twist-to-release or pull-to-release operation per IEC 60947-5-5
- Compliant with ANSI B11.19, ANSI NFPA79 and IEC/EN 60204-1 Emergency Stop requirements
- Incorporate with OTB/STB optical touch button for a simplified operator station that does not require an additional enclosure.
- “Safe Break Action” ensures NC contacts will open if the contact block is damaged or separated from the actuator
- Models designed to interface with Safety BUS nodes/gateways

Illuminated Base-mount E-Stop Push-Buttons

Description	Illumination***	Models
2NC / 1NO (PNP)	YEL/RED-Flash/Solid	SSA-EB1PLYR-12ECQ8
2NC / 1NO (PNP)	GREEN/RED-Flash/Solid	SSA-EB1PLGR-12ECQ8
2NC / 1NO (PNP)	OFF/RED-Flash/Solid	SSA-EB1PLXR-12ECQ8
2NC / 1NO (PNP)	OFF/RED-Flash/Solid, with 60 mm button	SSA-EB2PLXR-12ECQ8 NEW
2NC / 1NO (PNP)	OFF/RED-Solid/Solid	SSA-EB1PL-12ECQ8
2NC – Safety BUS node compatible*	YEL/RED-Flash	SSA-EB1PLYR-02ECQ5A
2NC – Safety BUS node compatible*	OFF/RED-Flash	SSA-EB1PLXR-02ECQ5A
2NC – Safety BUS node compatible*	OFF/RED-Solid	SSA-EB1PL-02ECQ5A
2NC – Safety BUS node compatible*	Illuminated button, OFF (armed), RED (solid, PUSH ON)	SSA-EB1PL2-02ECQ5A NEW
2NC – Safety BUS node compatible**	YEL/RED-Flash	SSA-EB1PLYR-02ECQ5B
2NC – Safety BUS node compatible**	OFF/RED-Flash	SSA-EB1PLXR-02ECQ5B
2NC – Safety BUS node compatible**	OFF/RED-Solid	SSA-EB1PL-02ECQ5B
2NC – Safety BUS node compatible**	Illuminated button, OFF (armed) RED (solid, PUSH ON)	SSA-EB1PL2-02ECQ5B NEW

For more specifications see page 761.

 **Connection options:** A model with a QD requires a mating cordset (see page 758).

* CH1=pins 1 & 2, CH2=pins 4 & 5, 5-pin M12 QD

** CH1=pins 1 & 4, CH2=pins 2 & 5, 5-pin M12 QD

*** For EZ-LIGHT Illumination logic see page 759.



E-Stop Buttons Illuminated Flush Mount

Illumination allows for easy identification of which E-stop has been activated.

- Easy installation with no assembly or individual wiring required
- Remotely located E-Stop buttons can be positioned to be clearly identified, clearly visible and readily accessible
- Push-to-stop, twist-to-release or pull-to-release operation per IEC 60947-5-5
- Compliant with ANSI B11.19, ANSI NFPA79 and IEC/EN 60204-1 Emergency Stop requirements
- “Safe Break Action” ensures NC contacts will open if the contact block is damaged or separated from the actuator
- Models designed to interface with Safety BUS nodes/gateways

Illuminated Flush-mount E-Stop Push-Buttons

Description	Illumination***	Models
2NC / 1NO (PNP)	YEL/RED-Flash/Solid	SSA-EB1PLYR-12ED1Q8
2NC / 1NO (PNP)	YEL/RED-Flash/Solid, 1/2" NPT conduit connection with terminal strip	SSA-EB1PLYR-12ED1 NEW
2NC / 1NO (PNP)	GREEN/RED-Flash/Solid	SSA-EB1PLGR-12ED1Q8
2NC / 1NO (PNP)	GREEN/RED-Flash/Solid, 1/2" NPT conduit connection with terminal strip	SSA-EB1PLGR-12ED1 NEW
2NC / 1NO (PNP)	OFF/RED-Flash/Solid	SSA-EB1PLXR-12ED1Q8
2NC / 1NO (PNP)	OFF/RED-Flash/Solid, with 60 mm button	SSA-EB2PLXR-12ED1Q8 NEW
2NC / 1NO (PNP)	OFF/RED-Flash/Solid, 1/2" NPT conduit connection with terminal strip	SSA-EB1PLXR-12ED1 NEW
2NC / 1NO (PNP)	OFF/RED-Solid/Solid	SSA-EB1PL-12ED1Q8
2NC – Safety BUS node compatible*	YEL/RED-Flash	SSA-EB1PLYR-02ED1Q5A
2NC – Safety BUS node compatible*	OFF/RED-Flash	SSA-EB1PLXR-02ED1Q5A
2NC – Safety BUS node compatible*	OFF/RED-Solid	SSA-EB1PL-02ED1Q5A
2NC – Safety BUS node compatible**	YEL/RED-Flash	SSA-EB1PLYR-02ED1Q5B
2NC – Safety BUS node compatible**	OFF/RED-Flash	SSA-EB1PLXR-02ED1Q5B
2NC – Safety BUS node compatible**	OFF/RED-Solid	SSA-EB1PL-02ED1Q5B

For more specifications see page 761.

 **Connection options:** A model with a QD requires a mating cordset (see page 758).

* CH1=pins 1 & 2, CH2=pins 4 & 5, 5-pin M12 QD
 ** CH1=pins 1 & 4, CH2=pins 2 & 5, 5-pin M12 QD**
 *** For EZ-LIGHT Illumination logic see page 759.



E-Stop Buttons

30 mm Mount

The 30 mm Mount E-Stop Buttons allow for easy installation with no assembly or individual wiring required.

- Rugged design
- Push-to-stop, twist-to-release or pull-to-release operation per IEC 60947-5-5
- Compliant with ANSI B11.19, ANSI NFPA79 and IEC/EN 60204-1 Emergency Stop requirements
- “Safe Break Action” ensures NC contacts will open if the contact block is damaged or separated from the actuator
- Models designed to interface with Safety BUS nodes/gateways

Base-mount E-Stop Push-Buttons

Description	Models
2NC	SSA-EB1P-02ECQ4
1NC / 1NO	SSA-EB1P-11ECQ4
2NC – Safety BUS node compatible*	SSA-EB1P-02ECQ5A
2NC – Safety BUS node compatible with 60 mm button*	SSA-EB2P-02ECQ5A NEW
2NC – Safety BUS node compatible**	SSA-EB1P-02ECQ5B
2NC – Safety BUS node compatible with 60 mm button**	SSA-EB2P-02ECQ5B NEW
2NC / 2NO	SSA-EB1P-22ECQ8
4NC with 60 mm button	SSA-EB2P-04ECQ8 NEW

For more specifications see page 761.

Connection options: A model with a QD requires a mating cordset (see page 758).

* CH1=pins 1 & 2, CH2=pins 4 & 5, 5-pin M12 QD

** CH1=pins 1 & 4, CH2=pins 2 & 5, 5-pin M12 QD



E-Stop Buttons Flush Mount

Flush Mount E-Stop Buttons are easy to install with no assembly or individual wiring required.

- Models designed to interface with Safety BUS nodes/gateways
- Rugged design
- Push-to-stop, twist-to-release or pull-to-release operation per IEC 60947-5-5
- Compliant with ANSI B11.19, ANSI NFPA79 and IEC/EN 60204-1 Emergency Stop requirements
- “Safe Break Action” ensures NC contacts will open if the contact block is damaged or separated from the actuator

Flush-mount E-Stop Push-Button

Description	Standard Models
2NC	SSA-EB1P-02ED1Q4
2NC - Alternate pinout	SSA-EB1P-02ED1Q4A NEW
1NC/1NO	SSA-EB1P-11ED1Q4
2NC, Safety BUS node compatible*	SSA-EB1P-02ED1Q5A
2NC, Safety BUS node compatible with 60 mm button*	SSA-EB2P-02ED1Q4A NEW
2NC, Safety BUS node compatible**	SSA-EB1P-02ED1Q5B
2NC, Safety BUS node compatible with 60 mm button**	SSA-EB2P-02ED1Q4B NEW
2NC/2NO	SSA-EB1P-22ED1Q8
4NC with 60 mm button	SSA-EB2P-04ED1Q8 NEW
2NC/1NO, Illuminated button—Push ON RED	SSA-EB1PL2-12ED1Q8

For more specifications see page 761.

Connection options: A model with a QD requires a mating cordset (see page 758).

* CH1=pins 1 & 2, CH2=pins 4 & 5, 5-pin M12 QD
 ** CH1=pins 1 & 4, CH2=pins 2 & 5, 5-pin M12 QD



Lockable E-Stop Buttons Illuminated Flush Mount

Illuminated Flush Mount Lockable E-Stop Buttons are easy to install and have a locking capability.

- Push-to-stop, twist-to-release operation per IEC 60947-5-5
- Compliant with ANSI B11.19, ANSI NFPA79 and IEC/EN 60204-1 Emergency Stop requirements
- “Safe Break Action” ensures NC contacts will open if the contact block is damaged or separated from the actuator
- Models designed to interface with Safety BUS nodes/gateways
- Rugged design is easy to install with no assembly or individual wiring required

Lockable Illuminated Flush-mount E-Stop Push-Buttons

Description	Illumination*	Models
2NC / 1NO (PNP)	YEL/RED-Flash/Solid	SSA-EB1MLYRP-12ED1Q8
2NC / 1NO (PNP)	YEL/RED-Flash/Solid, 1/2" NPT conduit connection with terminal strip	SSA-EB1MLYRP-12ED1Q8 NEW
2NC / 1NO (PNP)	GREEN/RED-Flash/Solid	SSA-EB1MLGRP-12ED1Q8
2NC / 1NO (PNP)	GREEN/RED-Flash/Solid, 1/2" NPT conduit connection with terminal strip	SSA-EB1MLGRP-12ED1 NEW
2NC / 1NO (PNP)	OFF/RED-Flash/Solid	SSA-EB1MLXRP-12ED1Q8
2NC / 1NO (PNP)	OFF/RED-Flash/Solid, 1/2" NPT conduit connection with terminal strip	SSA-EB1MLXRP-12ED1 NEW
2NC / 1NO (PNP)	OFF/RED-Solid/Solid	SSA-EB1MLP-12ED1Q8

For more specifications see page 762.

 **Connection options:** A model with a QD requires a mating cordset (see page 758).

* For EZ-LIGHT Illumination logic see page 759.



Lockable E-Stop Buttons Flush Mount

Flush Mount Lockable E-Stop Buttons are easy to install and have a locking capability.

- Push-to-stop, twist-to-release operation per IEC 60947-5-5
- Compliant with ANSI B11.19, ANSI NFPA79 and IEC/EN 60204-1 Emergency Stop requirements
- “Safe Break Action” ensures NC contacts will open if the contact block is damaged or separated from the actuator
- Models designed to interface with Safety BUS nodes/gateways
- Rugged design is easy to install with no assembly or individual wiring required

Lockable Flush-mount E-Stop Push-Button

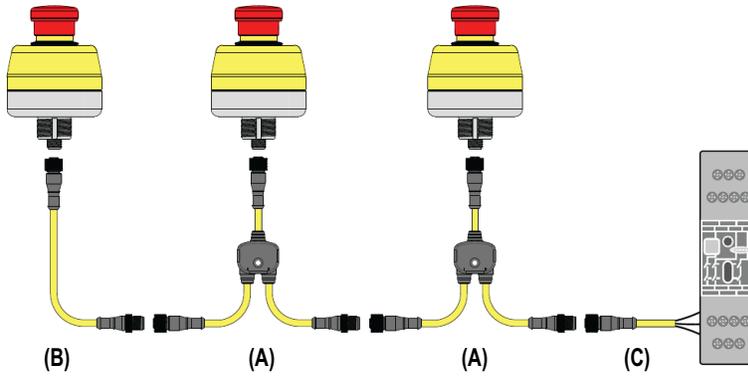
Description	Models
2NC	SSA-EB1MP-02ED1Q4
2NC - Alternate pinout	SSA-EB1MP-02ED1Q4A NEW
1NC/1NO	SSA-EB1MP-11ED1Q4
2NC, Safety BUS node compatible*	SSA-EB1MP-02ED1Q5A
2NC, Safety BUS node compatible**	SSA-EB1MP-02ED1Q5B
2NC/2NO	SSA-EB1MP-22ED1Q8
2NC/1NO, Illuminated button—Push ON RED	SSA-EB1ML2P-12ED1Q8

For more specifications see page 762.

<p>Connection options: A model with a QD requires a mating cordset (see page 758).</p> <p>* CH1=pins 1 & 2, CH2=pins 4 & 5, 5-pin M12 QD</p> <p>** CH1=pins 1 & 4, CH2=pins 2 & 5, 5-pin M12 QD</p>
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Series Hookup Cordset Solution

This interconnection solution allows for quick hookup of a series string of emergency stop buttons. For the CSS models (A) Branch #1 and Branch #2 are 300 mm (12") in length and the length of the trunk is listed below. See "Cordsets" below and specific model E-Stop datasheet for complete information, including installation instructions, hookup, and accessories.



Cordsets

Euro QD Splitter A (for Q4 and Q8 models)

Length	4-Pin	
0.31 m		CSS-M12F41M12M41M12F41
0.91 m		CSS-M12F43M12M41M12F41
2.44 m		CSS-M12F48M12M41M12F41
	8-Pin	
0.31 m		CSS-M12F81M12M81M12F81
0.91 m		CSS-M12F83M12M81M12F81
2.44 m		CSS-M12F88M12M81M12F81

Additional cordset information available. See page 902.

Euro QD–Double-Ended B (for Q5 and Q8 models)

See page 912

Length	5-Pin	8-Pin
0.31 m	DEE2R-51D	DEE2R-81D
0.91 m	DEE2R-53D	DEE2R-83D
2.44 m	DEE2R-58D	DEE2R-88D
4.57 m	DEE2R-515D	DEE2R-815D
7.62 m	DEE2R-525D	DEE2R-825D
15.2 m	DEE2R-550D	DEE2R-850D
22.9 m	DEE2R-575D	DEE2R-875D
30.5 m	DEE2R-5100D	DEE2R-8100D

Euro QD C (for Q4 and Q8 models)

See page page 906

Length	Threaded 4-Pin		Threaded 8-Pin	
	Straight			
1.83 m	MQDC-406	MQDC2S-806		
4.57 m	MQDC-415	MQDC2S-815		
9.14 m	MQDC-430	MQDC2S-830		
15.2 m	MQDC-450	MQDC2S-850		

Brackets

30 mm Mount

See page 860	See page 860	See page 861
SSA-MBK-EEC1	SSA-MBK-EEC2	SSA-MBK-EEC3



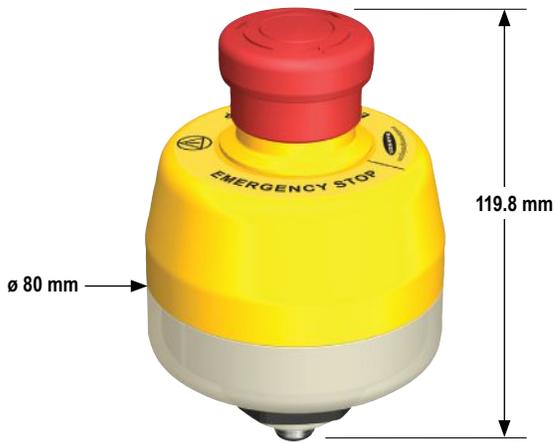
Additional brackets and information available. See page 852

E-Stop Legend Labels (adhesive backed label)

Product	Description	Language	Inscription	Models [†]
	60 mm diameter (OD) Emergency Stop Legend with inscription and ISO 13850 Emergency Stop symbol (adhesive backed label). 41 mm hole for application around the base of SSA-EB1(2)P... (Pack of 10 each)	English	EMERGENCY STOP	ESL-41/60-10
		English & Spanish	PARADA DE EMERGENCIA	ESL-41/60-ENES-10
		Spanish	PARADA DE EMERGENCIA	ESL-41/60-ES-10
		German	NOT-AUS	ESL-41/60-DE-10
		French	ARRÊT D'URGENCE	ESL-41/60-FR-10
		Italian	EMERGENZA ARRESTO	ESL-41/60-IT-10
		Russian	АВАРИЙНЫЙ ОСТАНОВ	ESL-41/60-RU-10
		Japanese	非常停止	ESL-41/60-JA-10
		Simplified Chinese (Mainland China)	紧急停止	ESL-41/60-CN-10
		Traditional Chinese (Taiwan)	緊急停止	ESL-41/60-TW-10
	70 mm diameter (OD) Emergency Stop Legend with inscription and ISO 13850 Emergency Stop symbol (adhesive backed label). 44 mm hole for application around SSA-EB1M... (Pack of 10 each).	English	EMERGENCY STOP	ESL-44/70-10
		English & Spanish	PARADA DE EMERGENCIA	ESL-44/70-ENES-10
		Spanish	PARADA DE EMERGENCIA	ESL-44/70-ES-10
		German	NOT-AUS	ESL-44/70-DE-10
		French	ARRÊT D'URGENCE	ESL-44/70-FR-10
		Italian	EMERGENZA ARRESTO	ESL-44/70-IT-10
		Russian	АВАРИЙНЫЙ ОСТАНОВ	ESL-44/70-RU-10
		Japanese	非常停止	ESL-44/70-JA-10
		Simplified Chinese (Mainland China)	紧急停止	ESL-44/70-CN-10
		Traditional Chinese (Taiwan)	緊急停止	ESL-44/70-TW-10
Portuguese	PARADA DE EMERGÊNCIA	ESL-44/70-PT-10		

EZ-LIGHT™ Illumination Logic for Emergency Stop buttons

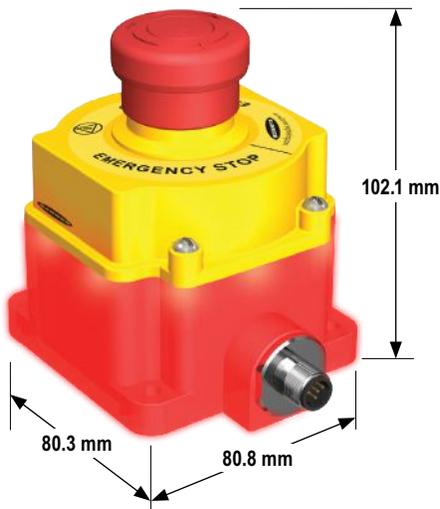
Situation	Indication	Illumination Logic
SSA-EB1xxLYR-xxxxQx or SSA-EB1xxLGR-xxxxQx		
Button Armed Pin 3 open	YELLOW / SOLID or GREEN / SOLID	<ul style="list-style-type: none"> Indicates button is armed If used, ES-FA-11AA Module is in a RESET/RUN condition (31/32 open)
Button Pushed Pin 3 open or +V dc	RED / FLASH	<ul style="list-style-type: none"> Indicates the button that is pushed (actuated) Signal on Pin 3 has no effect on a button that has been pushed (actuated)
Button Armed Pin 3 = +V dc	RED / SOLID	<ul style="list-style-type: none"> Indicates the machine is in an Emergency Stop or other stop condition, but that specific button has not been pushed (actuated) This optional signal (12 to 30 V dc) allows the user to indicate a stop condition by turning the armed indication to a RED (steady) Indication
SSA-EB1xxLXR-xxxxQx		
Button Armed Pin 3 open	OFF	<ul style="list-style-type: none"> Indicates button is armed If used, ES-FA-11AA Module is in a RESET/RUN condition (31/32 open)
Button Pushed Pin 3 open or +V dc	RED / FLASH	<ul style="list-style-type: none"> Indicates the button that is pushed (actuated) Signal on Pin 3 has no effect on a button that has been pushed (actuated)
Button Armed Pin 3 = +V dc	RED / SOLID	<ul style="list-style-type: none"> Indicates the machine is in an Emergency Stop or other stop condition, but that specific button has not been pushed (actuated) This optional signal (12 to 30 V dc) allows the user to indicate a stop condition by turning the armed indication to a RED (steady) Indication
SSA-EB1xxL-xxxxQx		
Button Armed Pin 3 open	OFF	<ul style="list-style-type: none"> Indicates button is armed If used, ES-FA-11AA Module is in a RESET/RUN condition (31/32 open)
Button Pushed Pin 3 open or +V dc	RED / SOLID	<ul style="list-style-type: none"> Indicates the button that is pushed (actuated) Signal on Pin 3 has no effect on a button that has been pushed (actuated)
Button Armed Pin 3 = +V dc	RED / SOLID	<ul style="list-style-type: none"> Indicates the machine is in an Emergency Stop or other stop condition, but that specific button has not been pushed (actuated) This optional signal (12 to 30 V dc) allows the user to indicate a stop condition by turning the armed indication to a RED (steady) Indication



Illuminated models



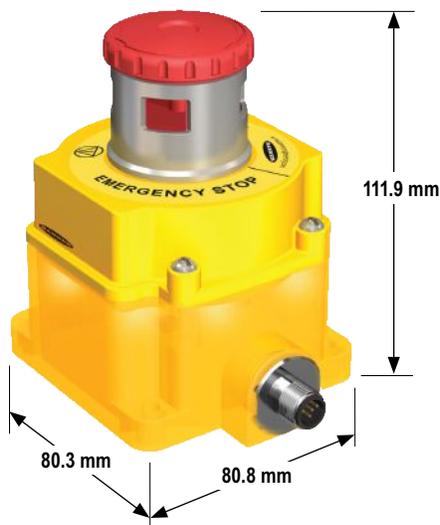
Non-Illuminated models



Illuminated models



Non-Illuminated models



Illuminated models

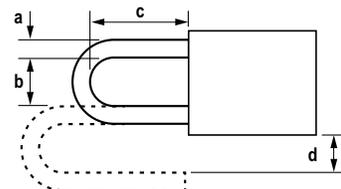


Non-Illuminated models

30 mm E-Stop Push Button Specifications

Housing / Button Mounting	Polycarbonate / Polyamide Threaded base has M30 x 1.5 external threads.(M30 hardware included) Max. Tightening Torque: 0.56 N m (5 in lbf)					
Operating Temperature	-25 to +55°C					
Environmental rating	IP65 (IEC60529)					
Operating Humidity	45% to 85% RH (no condensation)					
Insulation Resistance	100M minimum (500 V dc megger)					
Impulse Withstand Voltage	2.5 kV					
Pollution Degree	3					
Overvoltage Category	II					
Contact material / bounce*	Gold plated silver / 20 ms					
Electrical Life	100,000 operations minimum, 250,000 operations minimum at 24 V ac/dc, 100 mA					
Mechanical Life	250,000 operations					
B10d	100,000 (based on ISO13849-1(2006))					
Shock & Vibration Resistance	Operating extremes: 150m/s2 (15G)		Operating extremes: 10 to 500 Hz, amplitude 0.35 mm acceleration 50 m/s2			
LED Illumination	Color: Yellow - 590 nm, Red - 618 nm, Green - 525 nm; Flash Rate: 1.6 Hz at 50% duty cycle; Voltage/Current: 12 – 30 V dc; 120 mA at 12 V dc, 65 mA at 24 Vdc, 60 mA at 30 V dc, SSA-EB1..LGR-.. (GREEN) only: 12 – 30 V dc; 135 mA @ 12 V dc, 75 mA @ 24 V dc, 70 mA @ 30 V dc					
Electrical Rating	Minimum load: 1 mA @ 5 V ac/dc SSA-EB1xx-.Q5A/Q5B: 3A @ 250 V maximum SSA-EB1xx-xxED1Q8: 2A at 60 V ac/75 V dc maximum UL Applications (UL/cUL): 1.5A @ 250 V ac, 1A @ 30 V dc (pilot duty) CE Applications: AC-15: 1.5A @ 250 V ac, DC-13: 1A @ 30 V dc					
Rated Insulation Voltage (Ui)	250 V					
Rated Current (Ith)	3A					
Rated Operating Voltage (Ue)	See Electrical Rating		30 V	60 V ac/75 V dc	125 V	250 V
Rated Operating Current	SSA-EB1xxLxx-02ED1Q5A/Q5B					
Safety Contact (NC)	AC 50/60 Hz	Resistive Load (AC-12)	—	—	—	3A
		Inductive Load (AC-15)	—	—	3A	1.5A
	DC	Resistive Load (DC-12)	2A	—	0.4A	0.2A
		Inductive Load (DC-13)	1A	—	0.22A	0.1A
Monitor Contacts (NO)	AC 50/60 Hz	Resistive Load (AC-12)	—	—	1.2A	0.6A
		Inductive Load (AC-15)	—	—	0.6A	0.3A
	DC	Resistive Load (DC-12)	2A	—	0.4A	0.2A
		Inductive Load (DC-13)	1A	—	0.22A	0.1A
SSA-EB1PLxx-02ECQ5A/Q5B (illuminated)						
Safety Contact (NC)	AC 50/60 Hz	Resistive Load (AC-12)	—	—	—	3A
		Inductive Load (AC-15)	—	—	3A	1.5A
	DC	Resistive Load (DC-12)	2A	—	0.4A	0.2A
		Inductive Load (DC-13)	1A	—	0.22A	0.1A
SSA-EB1Pxx-xxECQ8 See above for SSA-EB1P-22ECQ8 Monitor Contacts						
Safety Contact (NC)	AC 50/60 Hz	Resistive Load (AC-12)	—	2A	—	—
		Inductive Load (AC-15)	—	2A	—	—
	DC	Resistive Load (DC-12)	2A	0.4A	—	—
		Inductive Load (DC-13)	1A	0.22A	—	—
Auxiliary Output (NO)	12 to 30 V dc (from pin 2)	Resistive Load (DC-12)	0.25A	—	—	—
		Inductive Load (DC-13)	0.25A	—	—	—
<ul style="list-style-type: none"> • The rated operating currents are measured at resistive/inductive load types specified in IEC 60947-5-1. • See "Electrical Rating" above for maximum voltage/current rating per model. 						
Design Standards	Compliant with EN/IEC 60497-1 / -5-1, ISO 13850, ANSI B11.19 , ANSI NFPA79, IEC 60204-1					
Certifications	 E-stop button: CE UL LISTED (pending)					

Lockable and Illuminated E-Stop Push-Button Specifications

Housing / Button Mounting	Polycarbonate / Polyamide #10 or M5 (M5 hardware included), Max. Tightening Torque: 0.56 N•m (5 in•lbf)													
Operating Temperature	-25 to +55°C													
Environmental rating	IP65 (IEC60529)													
Operating Humidity	45% to 85% RH (no condensation)													
Insulation Resistance	100MΩ minimum (500 V dc megger)													
Impulse Withstand Voltage	2.5kV													
Pollution Degree	3													
Overvoltage Category	II													
Contact material / bounce	Gold plated silver / 20ms													
Electrical Life	100,000 operations minimum, 250,000 operations minimum at 24 V ac/dc, 100 mA													
Mechanical Life	250,000 operations,													
B10d	100,000 (based on ISO13849-1(2006))													
Total Weight of Padlock and Hasp (SSA-EB1M..P.. only)	<p>1500g (3.3 lb) maximum</p> <p>Padlock size</p> <table border="1"> <thead> <tr> <th>a</th> <th>b</th> <th>c</th> <th>d</th> </tr> </thead> <tbody> <tr> <td>7 mm max</td> <td>19 mm min</td> <td>39 mm min</td> <td>15 mm min</td> </tr> </tbody> </table> <p>Since various form and sizes are available, ensure applicability of padlock and hasp before use. If total weight exceeds 1500g, the switch may malfunction or fail.</p>  <p>Dimension "d" is 6 mm or more when attaching a padlock from the side of a switch.</p>						a	b	c	d	7 mm max	19 mm min	39 mm min	15 mm min
a	b	c	d											
7 mm max	19 mm min	39 mm min	15 mm min											
Shock Resistance	Operating extremes: 150m/s ² (15G)													
Vibration Resistance	Operating extremes: 10 to 500 Hz, amplitude 0.35 mm acceleration 50 m/s ²													
LED Illumination	<p>Color: Yellow - 590 nm, Red - 618 nm, Green - 525 nm</p> <p>Flash Rate: 1.6 Hz @ 50% duty cycle</p> <p>Voltage/Current: 12 – 30 V dc; 120 mA @ 12 V dc, 65 mA @ 24 V dc, 60 mA @ 30 V dc, SSA-EB1..LGR..(GREEN) only: 12 - 30 V dc; 135 mA @ 12 V dc, 75 mA @ 24 V dc, 70 mA @ 30 V dc</p>													
Electrical Rating	<p>Minimum load: 1 mA @ 5 V ac/dc</p> <p>SSA-EB1xx..Q5A/Q5B: 3A @ 250 V maximum</p> <p>SSA-EB1xx-xxED1Q8: 2A @ 60 V ac/75 V dc maximum</p> <p>UL Applications (UL/cUL): 1.5A @ 250 V ac, 1A @ 30 V dc (pilot duty) CE Applications: AC-15: 1.5A @ 250 V ac, DC-13: 1A @ 30 V dc</p>													
Rated Insulation Voltage (Ui)	250 V													
Rated Current (Ith)	3A													
Rated Operating Voltage (Ue)	See Electrical Rating		30 V	60 V ac/75 V dc	125 V	250 V								
Rated Operating Current	SSA-EB1xxLxx-02ED1Q5A/Q5B													
	Safety Contact (NC)	AC 50/60 Hz	Resistive Load (AC-12)	—	—	3A								
			Inductive Load (AC-15)	—	—	3A	1.5A							
		DC	Resistive Load (DC-12)	2A	—	0.4A	0.2A							
			Inductive Load (DC-13)	1A	—	0.22A	0.1A							
	SSA-EB1xx-xxED1Q8													
	Safety Contact (NC)	AC 50/60 Hz	Resistive Load (AC-12)	—	2A	—								
			Inductive Load (AC-15)	—	2A	—	—							
		DC	Resistive Load (DC-12)	2A	0.4A	—	—							
			Inductive Load (DC-13)	1A	0.22A	—	—							
	Auxiliary Output (NO)	12 to 30 V dc (from pin 2)	Resistive Load (DC-12)	0.25A	—	—								
			Inductive Load (DC-13)	0.25A	—	—								
	<ul style="list-style-type: none"> The rated operating currents are measured at resistive/inductive load types specified in IEC 60947-5-1. See "Electrical Rating" above for maximum voltage/current rating per model. 													
Design Standards	Compliant with EN/IEC 60497-1 / -5-1, ISO 13850, ANSI B11.19, ANSI NFPA79, IEC 60204-1													
Certifications	<p>E-stop button:  (pending)  (pending)</p>													

Lockable E-Stop Push-Button Specifications

Housing / Button Mounting	Polycarbonate / Polyamide #10 or M5 (M5 hardware included), Max. Tightening Torque: 0.56 N•m (5 in•lbf)												
Operating Temperature	-25 to +55°C												
Environmental rating	IP65 (IEC60529)												
Operating Humidity	45% to 85% RH (no condensation)												
Insulation Resistance	100MΩ minimum (500 V dc megger)												
Impulse Withstand Voltage	2.5kV												
Pollution Degree	3												
Overvoltage Category	II												
Contact material / bounce	Gold plated silver / 20 ms												
Electrical Life	100,000 operations minimum, 250,000 operations minimum at 24 V ac/dc, 100 mA												
Mechanical Life	250,000 operations,												
B10d	100,000 (based on ISO13849-1(2006))												
Total Weight of Padlock and Hasp (SSA-EB1M..P-.. only)	1500g (3.3 lb) maximum												
	<p>Since various form and sizes are available, ensure applicability of padlock and hasp before use. If total weight exceeds 1500g, the switch may malfunction or fail.</p> <p>Padlock size</p> <table border="1"> <thead> <tr> <th>a</th> <th>b</th> <th>c</th> <th>d</th> </tr> </thead> <tbody> <tr> <td>7 mm max</td> <td>19 mm min</td> <td>39 mm min</td> <td>15 mm min</td> </tr> </tbody> </table> <p>Dimension "d" is 6 mm or more when attaching a padlock from the side of a switch.</p>						a	b	c	d	7 mm max	19 mm min	39 mm min
a	b	c	d										
7 mm max	19 mm min	39 mm min	15 mm min										
Shock Resistance	Operating extremes: 150m/s ² (15G)												
Vibration Resistance	Operating extremes: 10 to 500 Hz, amplitude 0.35mm acceleration 50m/s ²												
LED Voltage/Current	24 V ac/dc ±10%, 15mA @ 24 V ac/dc (SSA-EB1PL2-12ED1Q8 only)												
Electrical Rating	Minimum load: 1 mA @ 5 V ac/dc SSA-EB1xx-..Q4 and -..Q5: 3A @ 250 V maximum SSA-EB1xx-..Q8: 2A @ 60 V AC/75 V DC maximum UL Applications (UL/cUL): 1.5A @ 250 V ac, 1A @ 30 V dc (pilot duty) CE Applications: AC-15: 1.5A @ 250 V ac, DC-13: 1A @ 30 V dc												
Rated Insulation Voltage (Ui)	250 V												
Rated Current (Ith)	3A												
Rated Operating Voltage (Ue)	See Electrical Rating			30 V	125 V	250 V							
Rated Operating Current	Safety Contact (NC)	AC 50/60 Hz	Resistive Load (AC-12)	-	-	3A							
			Inductive Load (AC-15)	-	3A	1.5A							
		DC	Resistive Load (DC-12)	2A	0.4A	0.2A							
			Inductive Load (DC-13)	1A	0.22A	0.1A							
	Monitor Contacts (NO)	AC 50/60 Hz	Resistive Load (AC-12)	-	1.2A	0.6A							
			Inductive Load (AC-14)	-	0.6A	0.3A							
		DC	Resistive Load (DC-12)	2A	0.4A	0.2A							
			Inductive Load (DC-13)	1A	0.22A	0.1A							
<ul style="list-style-type: none"> The rated operating currents are measured at resistive/inductive load types specified in IEC 60947-5-1. See "Electrical Rating" above for maximum voltage/current rating per model. 													
Design Standards	Compliant with EN/IEC 60497-1 / -5-1, ISO 13850, ANSI B11.19 , ANSI NFPA79, IEC 60204-1												
Certifications	<p>E-stop button: CE (pending) UL LISTED (pending)</p>												



E-Stop Buttons

30 mm Panel Mount

Easy to install with locking and illuminated models available.

- Up to four contacts; various configurations available
- Push-to-stop, twist-to-release (standard and lockable), or pull-to-release (standard) operation per IEC60947-5-5
- Latching design complies with ISO 13850; direct (positive) opening operation per IEC 60947-5-1
- Compliant with ANSI B11.19, ANSI NFPA79, and IEC/EN 60204-1 Emergency Stop requirements
- “Safe Break Action” ensures N.C. contacts will open if the contact block is separated from the actuator

Panel Mount E-Stop Push-Buttons

Description	Models 40 mm Button	Models 60 mm Button
2NC	SSA-EB1P-02	SSA-EB2P-02
4NC	SSA-EB1P-04	SSA-EB2P-04
1NC / 1NO	SSA-EB1P-11	SSA-EB2P-11
3NC / 1NO	SSA-EB1P-13	SSA-EB2P-13
2NC / 2NO	SSA-EB1P-22	SSA-EB2P-22

Lockable Panel Mount E-Stop Push-Buttons

Description	Models 44 mm Button
2NC	SSA-EB1MP-02
4NC	SSA-EB1MP-04
1NC / 1NO	SSA-EB1MP-11
3NC / 1NO	SSA-EB1MP-13
2NC / 2NO	SSA-EB1MP-22



Illuminated E-Stop Buttons 30 mm Panel Mount

Easy to install with locking and illuminated models available.

- Up to four contacts; various configurations available
- Push-to-stop, twist-to-release (standard and lockable), or pull-to-release (standard) operation per IEC60947-5-5
- Latching design complies with ISO 13850; direct (positive) opening operation per IEC 60947-5-1
- Compliant with ANSI B11.19, ANSI NFPA79, and IEC/EN 60204-1 Emergency Stop requirements
- “Safe Break Action” ensures N.C. contacts will open if the contact block is separated from the actuator

Illuminated Panel Mount E-Stop Push-Buttons

Description	Models 40 mm Button
2NC, LED function per hookup	SSA-EB1PL1-02
4NC, LED function per hookup	SSA-EB1PL1-04
1NC / 1NO, LED function per hookup	SSA-EB1PL1-11
3NC / 1NO, LED function per hookup	SSA-EB1PL1-13
2NC / 2NO, LED function per hookup	SSA-EB1PL1-22
2NC / 1NO, LED function PRESS ON	SSA-EB1PL2-12

Illuminated Lockable Panel Mount E-Stop Push-Buttons

Description	Models 44 mm Button
2NC, LED function per hookup	SSA-EB1ML1P-02
4NC, LED function per hookup	SSA-EB1ML1P-04
1NC / 1NO, LED function per hookup	SSA-EB1ML1P-11
3NC / 1NO, LED function per hookup	SSA-EB1ML1P-13
2NC / 2NO, LED function per hookup	SSA-EB1ML1P-22
2NC / 1NO, LED function PRESS ON	SSA-EB1ML2P-12

E-Stop Legend Labels (adhesive backed label)

Product	Description	Language	Inscription	Models†
	<p>60 mm diameter (OD) Emergency Stop Legend with inscription and ISO 13850 Emergency Stop symbol (adhesive backed label).</p> <p>41 mm hole for application around the base of SSA-EB1(2)P... (Pack of 10 each)</p>	English	EMERGENCY STOP	ESL-41/60-10
		English & Spanish	PARADA DE EMERGENCIA	ESL-41/60-ENES-10
		Spanish	PARADA DE EMERGENCIA	ESL-41/60-ES-10
		German	NOT-AUS	ESL-41/60-DE-10
		French	ARRÊT D'URGENCE	ESL-41/60-FR-10
		Italian	EMERGENZA ARRESTO	ESL-41/60-IT-10
		Russian	АВАРИЙНЫЙ ОСТАНОВ	ESL-41/60-RU-10
		Japanese	非常停止	ESL-41/60-JA-10
		Simplified Chinese (Mainland China)	紧急停止	ESL-41/60-CN-10
		Traditional Chinese (Taiwan)	緊急停止	ESL-41/60-TW-10
	<p>70 mm diameter (OD) Emergency Stop Legend with inscription and ISO 13850 Emergency Stop symbol (adhesive backed label).</p> <p>44 mm hole for application around SSA-EB1M... (Pack of 10 each).</p>	English	EMERGENCY STOP	ESL-44/70-10
		English & Spanish	PARADA DE EMERGENCIA	ESL-44/70-ENES-10
		Spanish	PARADA DE EMERGENCIA	ESL-44/70-ES-10
		German	NOT-AUS	ESL-44/70-DE-10
		French	ARRÊT D'URGENCE	ESL-44/70-FR-10
		Italian	EMERGENZA ARRESTO	ESL-44/70-IT-10
		Russian	АВАРИЙНЫЙ ОСТАНОВ	ESL-44/70-RU-10
		Japanese	非常停止	ESL-44/70-JA-10
		Simplified Chinese (Mainland China)	紧急停止	ESL-44/70-CN-10
		Traditional Chinese (Taiwan)	緊急停止	ESL-44/70-TW-10
	<p>60 mm diameter (OD) Emergency Stop Legend with or without inscription (plastic with seal).</p> <p>30 mm hole for application with SSA-EB1(2)P... or SSA-EB1M... (1 each)</p>	English	EMERGENCY STOP	ESLP1-30/60
		N.A.	(Blank)	ESLP1-30/60-NW
	IP20 Finger-safe terminal cove			SSA-EB1-FSTC
	Standard terminal cover (supplied)			SSA-EB1-TC
	Jam nut wrench			SSA-EB1-LRW
	Jam nut twist wrench			SSA-EB1-LRTW



E-Stop Push Button Specifications

Button/Locking Collar	Polyamide/Aluminum				
Operating Temperature	Non-illuminated: -25 to +60°C Illuminated: -25 to +55°C				
Environmental rating	IP65 (IEC60529)				
Operating Humidity	45% to 85% RH (no condensation)				
Insulation Resistance	100M minimum (500 V dc megger)				
Impulse Withstand Voltage	2.5kV				
Pollution Degree	3				
Overtoltage Category	II				
Contact material / bounce*	Gold plated silver / 20 ms				
Electrical Life	100,000 operations minimum, 250,000 operations minimum at 24 V ac/dc, 100 mA				
Mechanical Life	250,000 operations				
B10d	100,000 (based on ISO13849-1(2006))				
Shock & Vibration Resistance	Shock Operating extremes: 150m/s ² (15G) Vibration Operating extremes: 10 to 500 Hz, amplitude 0.35 mm acceleration 50 m/s ²				
Electrical Rating	Minimum load: 1 mA @ 5 V ac/dc UL Applications: 1.5A @ 250 V ac, 1A @ 30 V dc (pilot duty) CE Applications: AC-15: 1.5A @ 250 V ac, DC-13: 1A @ 30 V dc				
Rated Insulation Voltage (Ui)	250 V				
Rated Current (Ith)	3A				
Rated Operating Current	Safety Contact (NC)				
	AC 50/60 Hz	Resistive Load (AC-12)	—	—	—
		Inductive Load (AC-15)	—	—	3A
	DC	Resistive Load (DC-12)	2A	—	0.4A
		Inductive Load (DC-13)	1A	—	0.22A
	Monitor Contact (NO)				
	AC 50/60 Hz	Resistive Load (AC-12)	—	1.2A	0.6A
		Inductive Load (AC-15)	—	0.6A	0.3A
	DC	Resistive Load (DC-12)	2A	0.4A	0.2A
		Inductive Load (DC-13)	1A	0.22A	0.1A
The operating current is classified according to JIS C 8201-5-1-1999 making and breaking capacities and are measured at resistive/inductive load types specified in IEC 60947-5-1. See "Electrical Rating" above for specific model and UL/CE maximum ratings.					
Design Standards	Compliant with EN/IEC 60497-1 / -5-1, ISO 13850, ANSI B11.19 , ANSI NFPA79, IEC 60204-1				
Certifications					



E-Stop Buttons

Emergency Stop Push Buttons

E-Stop button solution available as individual components or as kits for easy ordering.

- Higher current rating
- Modular design makes assembly and installation easy for either panel-mount or enclosure mounting
- Push-to-stop, twist-to-release operation per IEC 60497-5-5
- Compliant with ANSI B11.19, ANSI NFPA79, and IEC/EN 60204-1 Emergency Stop requirements
- Panel mount through 22 mm mounting hole

E-Stop Push-Button Panel Mount Kits

E-Stop Button	Contacts	Legend	Enclosure	Models
	2 NC			SSA-EBM-02L
 Metal-base	1 NC & 1 NO	Yes	No	SSA-EBM-11L
	2 NC & 1 NO			SSA-EBM-12L

E-Stop Push-Button Enclosure Kits

E-Stop Button	Contacts	Legend	Enclosure	Models*
	2 NC			SSA-EBM-02E
 Metal	1 NC & 1 NO	Yes	Yes	SSA-EBM-11E
	2 NC & 1 NO			SSA-EBM-12E

NC= Normally closed contact, NO= Normally open contact

* The LPZP1A5 enclosure has replaced 8-L2PP-1A5 (discontinued). Please note changes in size (8-L2PP-1A5: 72mm x 85mm) and mounting hole location (8-L2PP-1A5: 49mm x 54mm).

E-Stop Push-Button Components

Product	Description	Models
	22.5 mm metal button (8-LM2T-AU120 mounting adapter sold separately)	8-LM2T-B6644*
	Metal mounting adapter (for metal button)	8-LM2T-AU120
	Normally closed (NC) positively driven contact element	8-LM2T-C01**
	Normally open (NO) auxiliary contact element	8-LM2T-C10
	One 22 mm button enclosure, maximum of three contact blocks, wire entry through three sides (M16, M20 or M25) or the bottom (M16)	LPZP1A5***

* Twist to release, mechanical latching ISO 13850 (EN 418) compliant. Diameter 40 mm (without mounting adapter).

** Direct (positive) opening operation per IEC/EN 60947-5-1.

*** The LPZP1A5 enclosure has replaced 8-L2PP-1A5 (discontinued). Please note changes in size (8-L2PP-1A5: 72mm x 85mm) and mounting hole location (8-L2PP-1A5: 49mm x 54mm).

E-Stop Legend Labels (adhesive backed label)

Product	Description	Language	Inscription	Models†
	60 mm diameter, non-adhesive plastic legend with "Emergency Stop" inscription	English	EMERGENCY STOP	8-LM2T-AU115†
	60 mm diameter (OD) Emergency Stop Legend with inscription and ISO 13850 Emergency Stop symbol (adhesive backed label). 44 mm hole for application around SSA-EB1M... (Pack of 10 each).	English English & Spanish Spanish German French Italian Russian Japanese Simplified Chinese (Mainland China) Traditional Chinese (Taiwan) Portuguese	EMERGENCY STOP PARADA DE EMERGENCIA PARADA DE EMERGENCIA NOT-AUS ARRÊT D'URGENCE EMERGENZA ARRESTO АВАРИЙНЫЙ ОСТАНОВ 非常停止 紧急停止 緊急停止 PARADA DE EMERGÊNCIA	ESL-41/60-10 ESL-41/60-ENES-10 ESL-41/60-ES-10 ESL-41/60-DE-10 ESL-41/60-FR-10 ESL-41/60-IT-10 ESL-41/60-RU-10 ESL-41/60-JA-10 ESL-41/60-CN-10 ESL-41/60-TW-10 ESL-41/60-PT-10

† Additional E-Stop background labels are available (see p/n 121976).



E-Stop Push-Button Specifications

Mechanical Life	300,000 operations
Operating Force	0.8 kg
Mounting Adapter	Metal button: The adapter is fixed to the mounting surface by means of incorporated screws ($T_{max} = 0.8 \text{ Nm}$)
Construction	Plastic parts: Polyamide and polycarbonate Metal parts: Aluminum and zinc alloy
Environmental Rating	IP65
Operating Temperature	-25° to +60° C
Certifications	  Compliant with EN/IEC 60947-1; -5-1

Contact Specifications

Mechanical Life	300,000 operations																																								
European Rating	Utilization categories: AC15 and DC13 $U_i = 690 \text{ V ac}$ $I_{th} = 10 \text{ A}$ UL designation = A 600 Q600																																								
Rated Operating Voltage (Ue) and Current	IEC operational power in AC15 <table border="1" data-bbox="324 1066 1027 1146"> <tr> <td>V</td> <td>12</td> <td>24</td> <td>48</td> <td>120</td> <td>240</td> <td>400</td> <td>480</td> <td>500</td> <td>600</td> </tr> <tr> <td>A</td> <td>6</td> <td>6</td> <td>6</td> <td>6</td> <td>3</td> <td>1.9</td> <td>1.5</td> <td>1.4</td> <td>1.2</td> </tr> </table> IEC operational power in DC13 <table border="1" data-bbox="324 1182 1027 1262"> <tr> <td>V</td> <td>12</td> <td>14</td> <td>48</td> <td>125</td> <td>250</td> <td>440</td> <td>500</td> <td>600</td> <td></td> </tr> <tr> <td>A</td> <td>3</td> <td>3</td> <td>1.5</td> <td>0.55</td> <td>0.27</td> <td>0.15</td> <td>0.13</td> <td>0.1</td> <td></td> </tr> </table>	V	12	24	48	120	240	400	480	500	600	A	6	6	6	6	3	1.9	1.5	1.4	1.2	V	12	14	48	125	250	440	500	600		A	3	3	1.5	0.55	0.27	0.15	0.13	0.1	
V	12	24	48	120	240	400	480	500	600																																
A	6	6	6	6	3	1.9	1.5	1.4	1.2																																
V	12	14	48	125	250	440	500	600																																	
A	3	3	1.5	0.55	0.27	0.15	0.13	0.1																																	
Mechanical Life	1,000,000 operations																																								
B10d	8-LM2T-Cxx 1,000,000																																								
Connections	(1 or 2) 12 AWG (2.5 mm ²) maximum wire size, tightening torque: $T_{max} = 1 \text{ Nm}$																																								
Construction	Polyamide and polycarbonate																																								
Environmental Rating	IP20																																								
Operating Temperature	-25° to +60° C																																								
Application Notes	Normally Closed safety contacts (8-LM2T-C01) should only be attached to the left and right snap-on positions of the mounting adaptor. A maximum of two contact elements can be used in a single snap-on position.																																								
Certifications	  Compliant with EN/IEC 60947-1; -5-1																																								