

IP66, 67, 69K



COMING SOON

FAIL SAFE  
SAFETY CONTACT

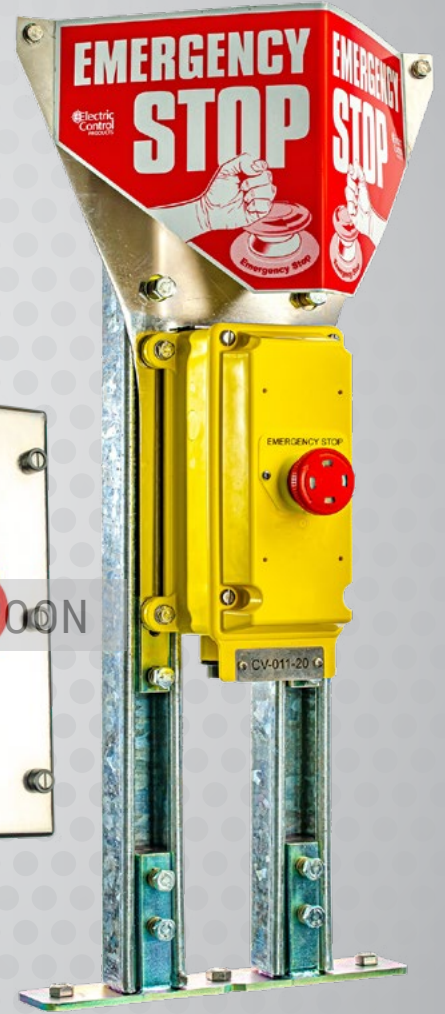


NOTE: One Safety Contact Block fitted in all Standard Range Emergency Stop Devices



COMING SOON

COMING SOON



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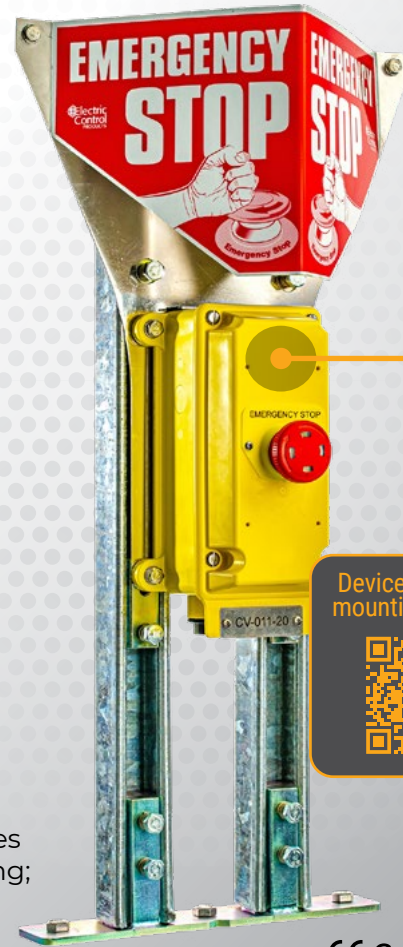
FOR MORE INFORMATION

[www.safe-t-products.com.au](http://www.safe-t-products.com.au)



## 22MM BUTTON VERSION

30mm Version available, coming soon.



Device shown on mounting system.



**The Emergency Stop Devices are available in three enclosure materials;** high impact, UV stable, flame retardant yellow PC/PBT plastic; 3mm 5052 aluminum with 6061 aluminum cable gland entries powder coated with halogen free, low smoke, yellow polyester coating; or 2mm 316 electro-polished stainless steel.

CE Conformity

Our range of Emergency Stop enclosures are suitable for industrial, food and mining applications, in even the harshest of environments. All devices are fitted with specific safety contact blocks to safeguard their integrity when activated. The unique design maintains the enclosure's Ingress Protection (IP) rating, even with buttons rated lower than the enclosure.

The main IP failure point with most buttons is the inability of their seals to prevent ingress of water into the enclosure when hit by jets of water during maintenance wash-down or cyclonic rain. As the seals are usually thin in their sealing face diameter, the pressure of the water can break the seal. This allows foreign material to accumulate under the seal, providing an entry point for water, dust, and other material. This will compromise the safety integrity and ingress protection of the enclosure and may cause premature button failure or electric shock to an operator.

When the Emergency Stop button is fitted into the Safe-T-Products designed shroud and enclosure, the entire device is rated at IP66/69K.

The enclosure's IP rating is protected with a one-piece lid seal fitted into a groove with an

external solid protection lip that is higher than the sealing face and protrudes down over the enclosure's sealing edge once the lid is installed. Both the conduit entries are sealed with specially designed O-ring grooved and fitted conduit plugs. To increase and/or maintain the IP rating of the button's seal, the Emergency Stop lid is fitted with a specially designed button protection and labeling shroud attached via two screws into blind mounting holes. The blind fixing holes are external to the button mounting hole, allowing for the buttons to be sealed directly onto the lid. This shroud protects the seal's integrity from direct sunlight, dust, foreign materials and reduces the power of impact of jets of water by slowing the flow via a torturous path preventing penetration through the seal.

The Emergency Stop button may be fitted with up to 3 direct opening fail safe contact blocks which still fail to safe even if any of the contact blocks are removed. This not only raises the overall safety of the Emergency Stop but completes the safety integrity of the overall system.

## STANDARD RANGE PC/PBT PLASTIC

CHOOSE YOUR BUTTON TYPE, ASSEMBLED WITH SHROUD & FAIL SAFE CONTACT

PC/PBT ENCLOSURE	DESCRIPTION	DIMENSIONS	SHROUD/CONTACT	CODE
	MUSHROOM OPERATOR Ø 30 TWIST TO RELEASE 			<b>ES-P-22-TW30</b>
	MUSHROOM OPERATOR WITH INDICATOR Ø 30 TWIST TO RELEASE 			<b>ES-P-22-TWI30</b>
	MUSHROOM OPERATOR Ø 40 TWIST TO RELEASE 			<b>ES-P-22-TW40</b>
	MUSHROOM OPERATOR WITH INDICATOR Ø 40 TWIST TO RELEASE 			<b>ES-P-22-TWI40</b>
	MUSHROOM OPERATOR Ø 60 TWIST TO RELEASE 			<b>ES-P-22-TW60</b>
	MUSHROOM OPERATOR WITH INDICATOR Ø 60 TWIST TO RELEASE 			<b>ES-P-22-TWI60</b>

### TECHNICAL NOTES

All operators comply with the relevant European standards:

- EN ISO 13850 Machine safety Emergency stop operators, functional characteristics - Design guidelines
- IEC/EN60947-5-1
- Comply with the standard IEC/EN60204-1: Machine safety Machine electrical circuit General guidelines

- The push button are designed with a load charge mechanism to ensure a reliable operation and stoppage, or blockage, in the activated position. The combination with positive switching NC contacts and the presence of the "status" indicator on some models, guarantee a high degree of reliability and effectiveness.

## STANDARD RANGE PC/PBT PLASTIC

CHOOSE YOUR BUTTON TYPE, ASSEMBLED WITH DUST BOOT/SIROUD & FAIL SAFE CONTACT

PC/PBT ENCLOSURE	DESCRIPTION	DIMENSIONS	SHROUD/CONTACT BLOCK	CODE
	MUSHROOM OPERATOR Ø 30 TWIST TO RELEASE 		+ =	<b>ES-P-22B-TW30</b>
	MUSHROOM OPERATOR WITH INDICATOR Ø 30 TWIST TO RELEASE 		+ =	<b>ES-P-22B-TWI30</b>
	MUSHROOM OPERATOR Ø 40 TWIST TO RELEASE 		+ =	<b>ES-P-22B-TW40</b>
	MUSHROOM OPERATOR WITH INDICATOR Ø 40 TWIST TO RELEASE 		+ =	<b>ES-P-22B-TWI40</b>
	MUSHROOM OPERATOR Ø 60 TWIST TO RELEASE 		+ =	<b>ES-P-22B-TW60</b>
	MUSHROOM OPERATOR WITH INDICATOR Ø 60 TWIST TO RELEASE 		+ =	<b>ES-P-22B-TWI60</b>

### TECHNICAL NOTES


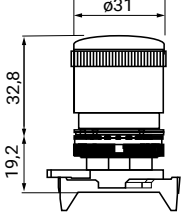


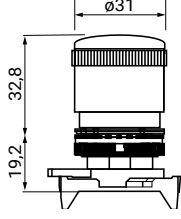


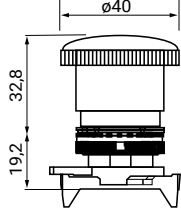


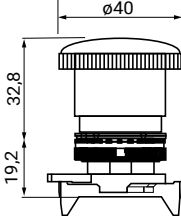


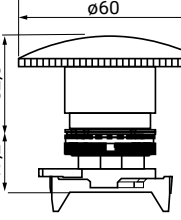


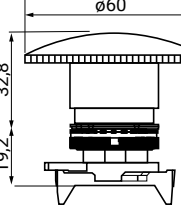

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## STANDARD RANGE PC/PBT PLASTIC


CHOOSE YOUR BUTTON TYPE, ASSEMBLED WITH SHROUD, FAIL SAFE CONTACT & ACGS

PC/PBT ENCLOSURE	DESCRIPTION	DIMENSIONS	SHROUD/CONTACT BLOCK	CODE
	MUSHROOM OPERATOR Ø 30 TWIST TO RELEASE			<b>ES-P-22-TW30-ACGS</b>
	MUSHROOM OPERATOR WITH INDICATOR Ø 30 TWIST TO RELEASE			<b>ES-P-22-TWI30-ACGS</b>
	MUSHROOM OPERATOR Ø 40 TWIST TO RELEASE			<b>ES-P-22-TW40-ACGS</b>
	MUSHROOM OPERATOR WITH INDICATOR Ø 40 TWIST TO RELEASE			<b>ES-P-22-TWI40-ACGS</b>
	MUSHROOM OPERATOR Ø 60 TWIST TO RELEASE			<b>ES-P-22-TW60-ACGS</b>
	MUSHROOM OPERATOR WITH INDICATOR Ø 60 TWIST TO RELEASE			<b>ES-P-22-TWI60-ACGS</b>

### TECHNICAL NOTES


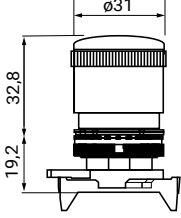


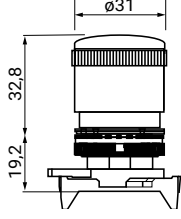


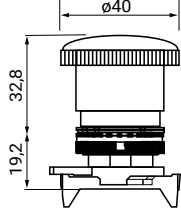


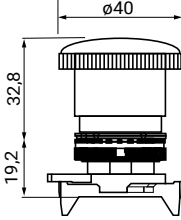


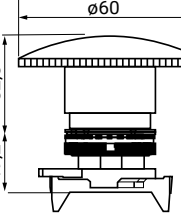


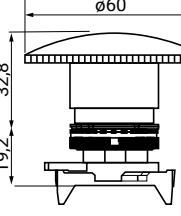

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## STANDARD RANGE PC/PBT PLASTIC


CHOOSE YOUR BUTTON TYPE, ASSEMBLED WITH DUST BOOT/SHROUD, FAIL SAFE CONTACT & ACGS

PC/PBT ENCLOSURE	DESCRIPTION	DIMENSIONS	SHROUD/CONTACT BLOCK	CODE
	MUSHROOM OPERATOR Ø 30 TWIST TO RELEASE			<b>ES-P-22B-TW30-ACGS</b>
	MUSHROOM OPERATOR WITH INDICATOR Ø 30 TWIST TO RELEASE			<b>ES-P-22B-TWI30-ACGS</b>
	MUSHROOM OPERATOR Ø 40 TWIST TO RELEASE			<b>ES-P-22B-TW40-ACGS</b>
	MUSHROOM OPERATOR WITH INDICATOR Ø 40 TWIST TO RELEASE			<b>ES-P-22B-TWI40-ACGS</b>
	MUSHROOM OPERATOR Ø 60 TWIST TO RELEASE			<b>ES-P-22B-TW60-ACGS</b>
	MUSHROOM OPERATOR WITH INDICATOR Ø 60 TWIST TO RELEASE			<b>ES-P-22B-TWI60-ACGS</b>

### TECHNICAL NOTES



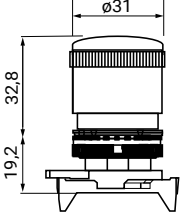



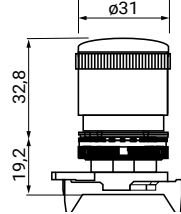



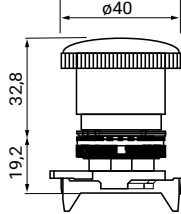



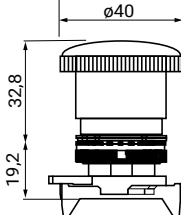



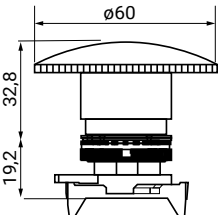



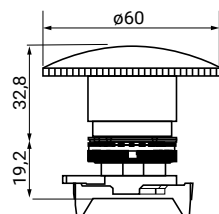

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## STANDARD RANGE ALUMINIUM


CHOOSE YOUR BUTTON TYPE, ASSEMBLED WITH SHROUD & FAIL SAFE CONTACT

ALUMINIUM ENCLOSURE	DESCRIPTION	DIMENSIONS	SHROUD/CONTACT BLOCK	CODE
 COMING SOON	MUSHROOM OPERATOR Ø 30 TWIST TO RELEASE 	 Ø 31 32,8 19,2		<b>ES-A-22-TW30</b>
 COMING SOON	MUSHROOM OPERATOR WITH INDICATOR Ø 30 TWIST TO RELEASE 	 Ø 31 32,8 19,2		<b>ES-A-22-TWI30</b>
 COMING SOON	MUSHROOM OPERATOR Ø 40 TWIST TO RELEASE 	 Ø 40 32,8 19,2		<b>ES-A-22-TW40</b>
 COMING SOON	MUSHROOM OPERATOR WITH INDICATOR Ø 40 TWIST TO RELEASE 	 Ø 40 32,8 19,2		<b>ES-A-22-TWI40</b>
 COMING SOON	MUSHROOM OPERATOR Ø 60 TWIST TO RELEASE 	 Ø 60 32,8 19,2		<b>ES-A-22-TW60</b>
 COMING SOON	MUSHROOM OPERATOR WITH INDICATOR Ø 60 TWIST TO RELEASE 	 Ø 60 32,8 19,2		<b>ES-A-22-TWI60</b>

### TECHNICAL NOTES


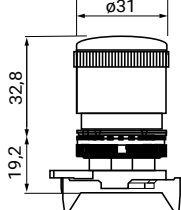



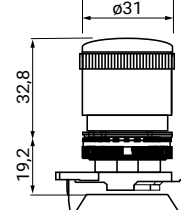



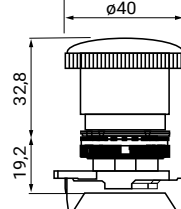



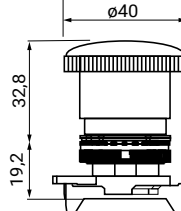



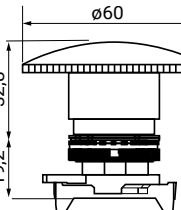



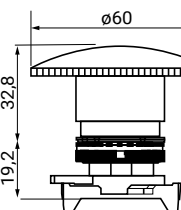


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
CHOOSE YOUR BUTTON TYPE, ASSEMBLED WITH DUST BOOT/SHROUD & FAIL SAFE CONTACT

ALUMINIUM ENCLOSURE	DESCRIPTION	DIMENSIONS	SHROUD/CONTACT BLOCK	CODE
	MUSHROOM OPERATOR Ø 30 TWIST TO RELEASE		+  = 	<b>ES-A-22B-TW30</b>
	MUSHROOM OPERATOR WITH INDICATOR Ø 30 TWIST TO RELEASE		+  = 	<b>ES-A-22B-TWI30</b>
	MUSHROOM OPERATOR Ø 40 TWIST TO RELEASE		+  = 	<b>ES-A-22B-TW40</b>
	MUSHROOM OPERATOR WITH INDICATOR Ø 40 TWIST TO RELEASE		+  = 	<b>ES-A-22B-TWI40</b>
	MUSHROOM OPERATOR Ø 60 TWIST TO RELEASE		+  = 	<b>ES-A-22B-TW60</b>
	MUSHROOM OPERATOR WITH INDICATOR Ø 60 TWIST TO RELEASE		+  = 	<b>ES-A-22B-TWI60</b>

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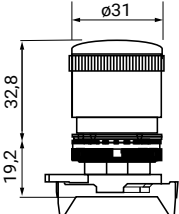




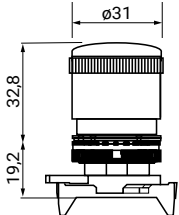




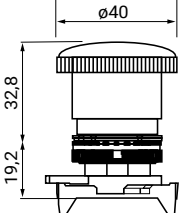




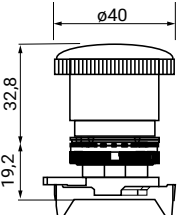




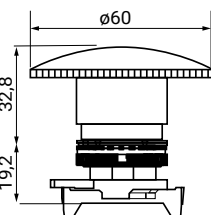




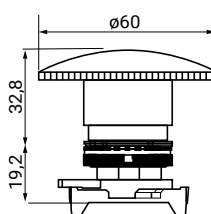


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## STANDARD RANGE STAINLESS STEEL


CHOOSE YOUR BUTTON TYPE, ASSEMBLED WITH SHROUD & FAIL SAFE CONTACT

STAINLESS ENCLOSURE	DESCRIPTION	DIMENSIONS	SHROUD/CONTACT BLOCK	CODE
 COMING SOON	MUSHROOM OPERATOR Ø 30 TWIST TO RELEASE 	 Ø31 32,8 19,2		 ES-SSB-22-TW30
 COMING SOON	MUSHROOM OPERATOR WITH INDICATOR Ø 30 TWIST TO RELEASE 	 Ø31 32,8 19,2		 ES-SSB-22-TWI30
 COMING SOON	MUSHROOM OPERATOR Ø 40 TWIST TO RELEASE 	 Ø40 32,8 19,2		 ES-SSB-22-TW40
 COMING SOON	MUSHROOM OPERATOR WITH INDICATOR Ø 40 TWIST TO RELEASE 	 Ø40 32,8 19,2		 ES-SSB-22-TWI40
 COMING SOON	MUSHROOM OPERATOR Ø 60 TWIST TO RELEASE 	 Ø60 32,8 19,2		 ES-SSB-22-TW60
 COMING SOON	MUSHROOM OPERATOR WITH INDICATOR Ø 60 TWIST TO RELEASE 	 Ø60 32,8 19,2		 ES-SSB-22-TWI60

### TECHNICAL NOTES


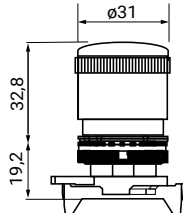


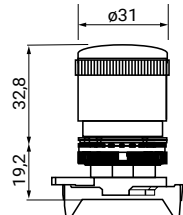


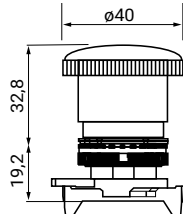


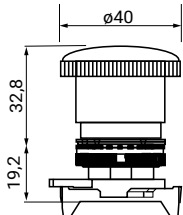


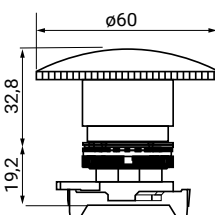


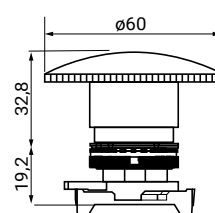

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## STANDARD RANGE STAINLESS STEEL


CHOOSE YOUR BUTTON TYPE, ASSEMBLED WITH DUST BOOT/SHROUD & FAIL SAFE CONTACT

STAINLESS ENCLOSURE	DESCRIPTION	DIMENSIONS	SHROUD/CONTACT BLOCK	CODE
	MUSHROOM OPERATOR Ø 30 TWIST TO RELEASE		+ 	<b>ES-SSB-22B-TW30</b>
	MUSHROOM OPERATOR WITH INDICATOR Ø 30 TWIST TO RELEASE		+ 	<b>ES-SSB-22B-TWI30</b>
	MUSHROOM OPERATOR Ø 40 TWIST TO RELEASE		+ 	<b>ES-SSB-22B-TW40</b>
	MUSHROOM OPERATOR WITH INDICATOR Ø 40 TWIST TO RELEASE		+ 	<b>ES-SSB-22B-TWI40</b>
	MUSHROOM OPERATOR Ø 60 TWIST TO RELEASE		+ 	<b>ES-SSB-22B-TW60</b>
	MUSHROOM OPERATOR WITH INDICATOR Ø 60 TWIST TO RELEASE		+ 	<b>ES-SSB-22B-TWI60</b>

### TECHNICAL NOTES

All operators comply with the relevant European standards:

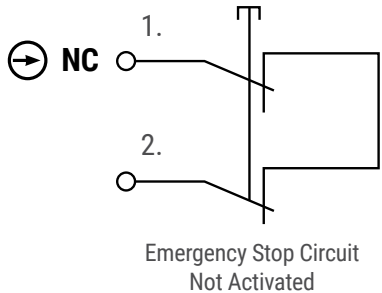
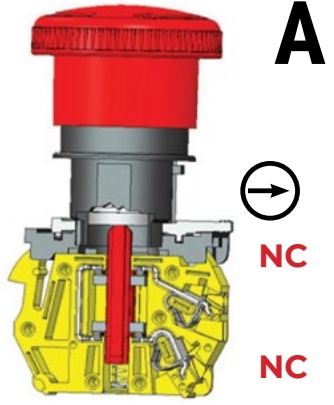
- EN ISO 13850 Machine safety Emergency stop operators, functional characteristics - Design guidelines
- IEC/EN60947-5-1
- Comply with the standard IEC/EN60204-1: Machine safety Machine electrical circuit General guidelines

- The push button are designed with a load charge mechanism to ensure a reliable operation and stoppage, or blockage, in the activated position. The combination with positive switching NC  contacts and the presence of the "status" indicator on some models, guarantee a high degree of reliability and effectiveness.

SELF MONITORED CONTACT INCLUDED IN STANDARD RANGE

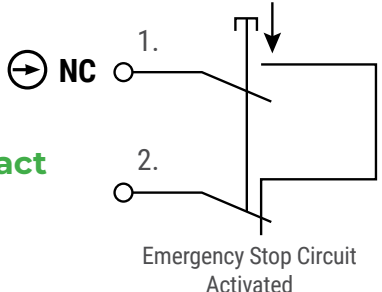
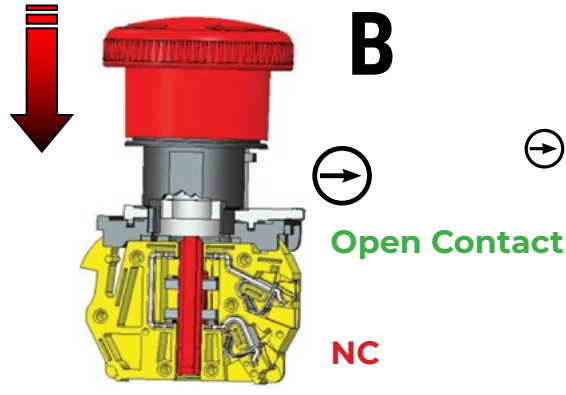
**ES-CB-NCSCS**

NOT ACTIVATED



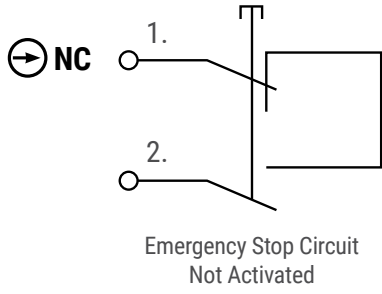
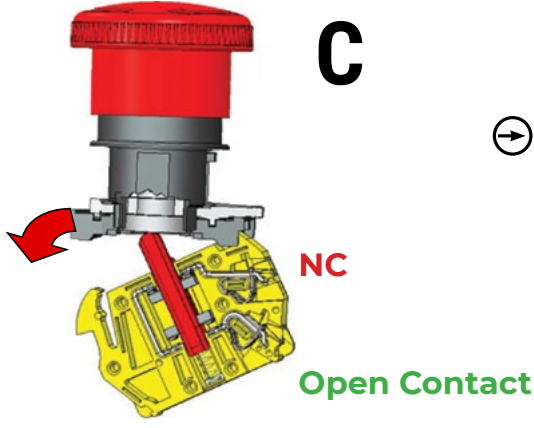
Mushroom Button Not Activated, contact Block Attached

ACTIVATED



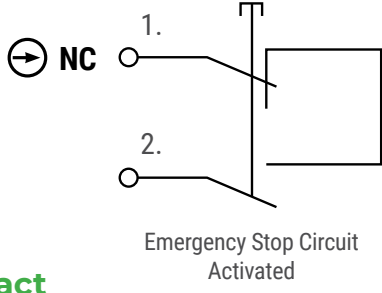
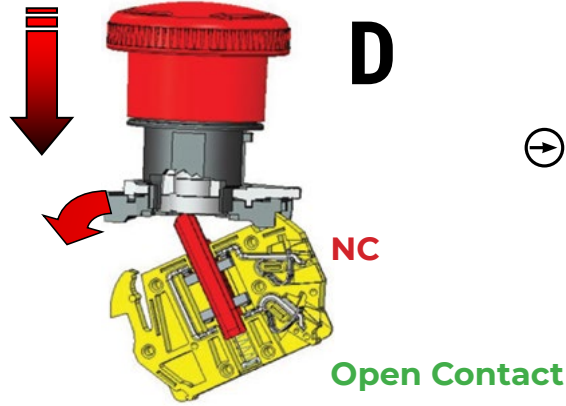
Mushroom Button Activated, Contact Block Attached

NOT ACTIVATED



Mushroom Button Not Activated, Contact Block Disconnected




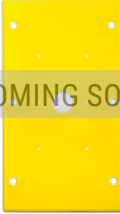




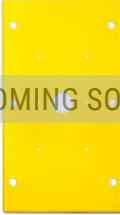




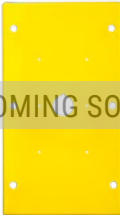




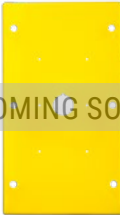




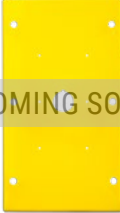




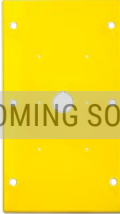

ACTIVATED



Mushroom Button Activated, Contact Block Disconnected




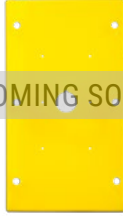
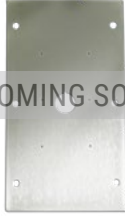



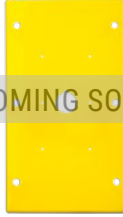
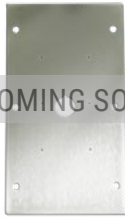



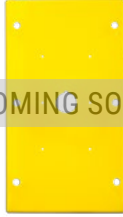
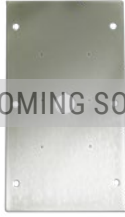



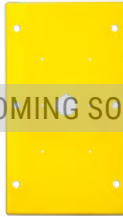
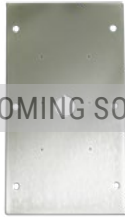



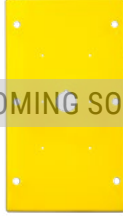
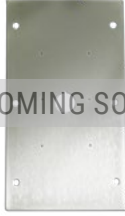



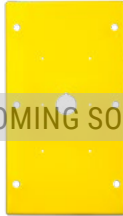
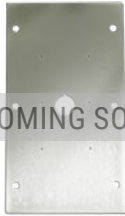
## SPARE LIDS

CHOOSE YOUR LID TYPE - PRE-ASSEMBLED WITH BUTTON & SHROUD

		PC/PBT PLASTIC	ALUMINIUM	STAINLESS STEEL
 <p>MUSHROOM OPERATOR Ø 30 TWIST TO RELEASE</p>		 <p>ES-P-22-TW30-LID</p>	<p>COMING SOON</p>  <p>ES-A-22-TW30-LID</p>	<p>COMING SOON</p>  <p>ES-SSB-22-TW30-LID</p>
 <p>MUSHROOM OPERATOR WITH INDICATOR Ø 30 TWIST TO RELEASE</p>		 <p>ES-P-22-TWI30-LID</p>	<p>COMING SOON</p>  <p>ES-A-22-TWI30-LID</p>	<p>COMING SOON</p>  <p>ES-SSB-22-TWI30-LID</p>
 <p>MUSHROOM OPERATOR Ø 40 TWIST TO RELEASE</p>		 <p>ES-P-22-TW40-LID</p>	<p>COMING SOON</p>  <p>ES-A-22-TW40-LID</p>	<p>COMING SOON</p>  <p>ES-SSB-22-TW40-LID</p>
 <p>MUSHROOM OPERATOR WITH INDICATOR Ø 40 TWIST TO RELEASE</p>		 <p>ES-P-22-TWI40-LID</p>	<p>COMING SOON</p>  <p>ES-A-22-TWI40-LID</p>	<p>COMING SOON</p>  <p>ES-SSB-22-TWI40-LID</p>
 <p>MUSHROOM OPERATOR Ø 60 TWIST TO RELEASE</p>		 <p>ES-P-22-TW60-LID</p>	<p>COMING SOON</p>  <p>ES-A-22-TW60-LID</p>	<p>COMING SOON</p>  <p>ES-SSB-22-TW60-LID</p>
 <p>MUSHROOM OPERATOR WITH INDICATOR Ø 60 TWIST TO RELEASE</p>		 <p>ES-P-22-TWI60-LID</p>	<p>COMING SOON</p>  <p>ES-A-22-TWI60-LID</p>	<p>COMING SOON</p>  <p>ES-SSB-22-TWI60-LID</p>

## SPARE LIDS

CHOOSE YOUR LID TYPE - PRE-ASSEMBLED WITH BUTTON, DUST BOOT/SHROUD

		PC/PBT PLASTIC	ALUMINIUM	STAINLESS STEEL
 <p>MUSHROOM OPERATOR Ø 30 TWIST TO RELEASE</p>	 <p>DUST BOOT COMING SOON</p>	 <p>ES-P-22B-TW30-LID</p>	 <p>COMING SOON</p> <p>ES-A-22B-TW30-LID</p>	 <p>COMING SOON</p> <p>ES-SSB-22B-TW30-LID</p>
 <p>MUSHROOM OPERATOR WITH INDICATOR Ø 30 TWIST TO RELEASE</p>	 <p>DUST BOOT COMING SOON</p>	 <p>ES-P-22B-TWI30-LID</p>	 <p>COMING SOON</p> <p>ES-A-22B-TWI30-LID</p>	 <p>COMING SOON</p> <p>ES-SSB-22B-TWI30-LID</p>
 <p>MUSHROOM OPERATOR Ø 40 TWIST TO RELEASE</p>	 <p>DUST BOOT COMING SOON</p>	 <p>ES-P-22B-TW40-LID</p>	 <p>COMING SOON</p> <p>ES-A-22B-TW40-LID</p>	 <p>COMING SOON</p> <p>ES-SSB-22B-TW40-LID</p>
 <p>MUSHROOM OPERATOR WITH INDICATOR Ø 40 TWIST TO RELEASE</p>	 <p>DUST BOOT COMING SOON</p>	 <p>ES-P-22B-TWI40-LID</p>	 <p>COMING SOON</p> <p>ES-A-22B-TWI40-LID</p>	 <p>COMING SOON</p> <p>ES-SSB-22B-TWI40-LID</p>
 <p>MUSHROOM OPERATOR Ø 60 TWIST TO RELEASE</p>	 <p>DUST BOOT COMING SOON</p>	 <p>ES-P-22B-TW60-LID</p>	 <p>COMING SOON</p> <p>ES-A-22B-TW60-LID</p>	 <p>COMING SOON</p> <p>ES-SSB-22B-TW60-LID</p>
 <p>MUSHROOM OPERATOR WITH INDICATOR Ø 60 TWIST TO RELEASE</p>	 <p>DUST BOOT COMING SOON</p>	 <p>ES-P-22B-TWI60-LID</p>	 <p>COMING SOON</p> <p>ES-A-22B-TWI60-LID</p>	 <p>COMING SOON</p> <p>ES-SSB-22B-TWI60-LID</p>

## ADDITIONAL CONTACT BLOCK

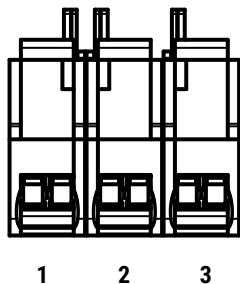
CHOOSE YOUR CONTACT BLOCK

### CONTACT BLOCK SCREW TERMINAL

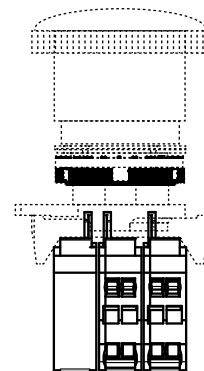
	DESIGNATION	FUNCTION	DIMENSIONS	CODE
	 1 — NC — 2	 0 1.5 6 mm		<b>PB-CB-NC</b>
	 3 — NO — 4	 0 3.5 6 mm		<b>PB-CB-NO</b>

### CONTACT BLOCK SPRING TERMINAL

	DESIGNATION	FUNCTION	DIMENSIONS	CODE
	 1 — NC — 2	 0 1.5 6 mm		<b>PB-CB-NCS</b>
	 3 — NO — 4	 0 3.5 6 mm		<b>PB-CB-NOS</b>
	FAIL SAFE SAFETY CONTACT  1 — 2	 0 3.5 8.3 mm 1 1.2 2		<b>ES-CB-NCSCS</b>



CONTACT BLOCK ORIENTATION



FAIL SAFE CONTACT BLOCK ORIENTATION

## SAFE-T-CONTACT - (ES-CB-NCSCS)

### ELECTRICAL AND MECHANICAL DATA

**Button IP 66/69k**

**B10d 3,000 000 operations MTTFd = 35 Years (High)**

*"Data Supplied by Giovenzana"*

#### STANDARD CONFORMITY

STANDARD CONFORMITY		UL - IMQ - CCC - EAC - R.I.NA - AS/NZS	
Material Group	EN60947-1		II
Pollution Grade	EN60947-1		3
Flammability	UL94		VO: live parts
Ambient Temperature	°C		Operating: -25 +70
	°C		Storage: -30 +70
Climate Protection	IEC68 part 2-3		Hot damp
	69		Unsettled Hot damp

<b>Contact type</b>		NO-NC-NO	self-monitored contact
Operating force			4N
Connections	terminal type		Spring
Connectable section	flexible conductors	1 or 2	1 ... 2.5 mm <sup>2</sup>
	flexible conductors	1 or 2	1 ... 2.5 mm <sup>2</sup>
	wire peeling length		8 mm
Contacts			slow action, double breaking
Electrical lifetime	AC-15	1A	1.5 million cycles
		2A	0.5 million cycles
		3A	0.25 million cycles
Marking			CE, IMQ, RINA, EAC, CCC, UL, UKCA

#### EN 60947-5-1 characteristics

Rated insulation voltage	Ui	690 V *
Rated impulse withstand voltage	Uimp	4 kV *
Rated thermal current	Ith	16 A *
Rated enclosed thermal current	Ithe	10 A
Frequency		50/60 Hz

#### Rated operating current (Ie)

AC-15	4.5 A	400 V	DC-13	0.25A	220V
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#### Short circuit characteristics

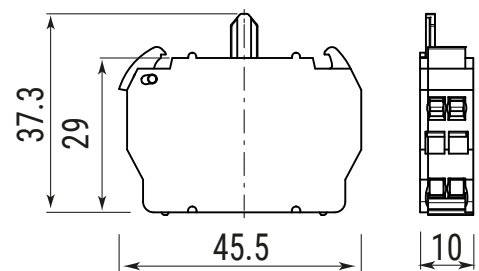
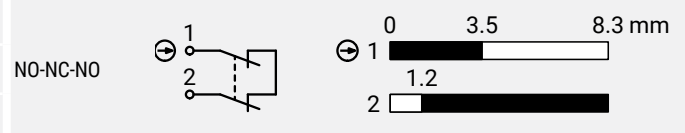
Conditional rated short circuit withstand current		1000 A *
Fuse rating (type gG)	500 V	10 A *
Contact insulation resistance		≤ 25 mΩ

#### UL 508 characteristics

Rated insulation voltage	Ui	10 A	600 V AC
		2.5 A	125 V DC
Rated impulse withstand voltage	Uimp	A600	Q600

\* IMQ approved values

#### Diagrams



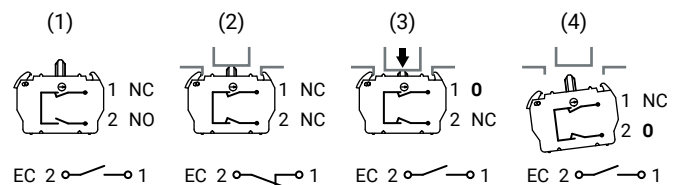
Dimensions in mm/illustrations NOT in scale

#### Contact

- (1) not installed
- (2) installed
- (3) triggered
- (4) detached

#### Status

- rest position, open
- guard position, closed
- intervention position, open
- malfunction, open



EC = equivalent circuit

**TECHNICAL DATA|ELECTRICAL CHARACTERISTICS**

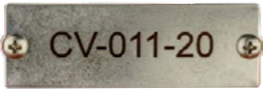
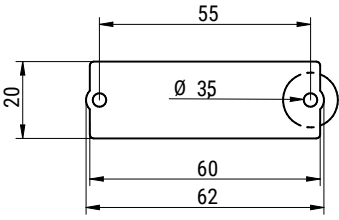


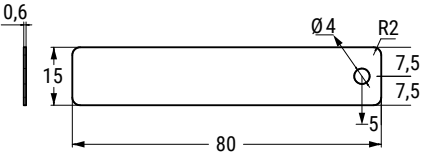

AS/NZS IEC	*IMQ VALUES	SCREW TERMINAL								SPRING TERMINAL								
<b>EC/EN 60947-5-1 CHARACTERISTICS</b>			<b>PBS-CB-NC / PBS-CB-NO</b>								<b>PBS-CB-NCS / PBS-CB-NOS</b>							
Rated insulation voltage Ui	<b>V</b>	690*								690*								
Rated impulse withstand voltage Uimp	<b>kV</b>	4*								4*								
Operating frequency	<b>Hz</b>	50/60*								50/60*								
Rated thermal current Ith	<b>A</b>	16*								16*								
Rated thermal current in enclosed Ithe	<b>A</b>	10*								10*								
<b>RATED OPERATING CURRENT IE:</b>																		
AC-15	<b>V</b>	24	60	110	230	400	440	500	690	24	60	110	240	400	440	500	690	
	<b>A</b>	16*	12	8	6	4,5	3,5	1*	1	16*	12	5	5*	4	4	4*	2*	
DC-13	<b>V</b>	24	48	60	110	220				24	48	60	110	220				
	<b>A</b>	2*	1,2	0,85	0,4	0,25*				2	2*	1*	0,4	0,4*				
Conditional short circuit withstand current	<b>A</b>	1000*								1000*								
Fuse rating gG	<b>500V</b>	10A*								10A*								
Contact insulation resistance	<b>mΩ</b>	<25								<25								
Switching mechanism		Slow break double gap contacts								Slow break double gap contacts								
Contact duty		⊕ NC contact with positive opening								⊕ NC contact with positive opening								
Minimum tripping force		4N								4N								
Electrical life AC15	<b>mil. cycles</b>	1A/1,5 - 2A/0,5 - 3A/0,25								1A/1,5 - 2A/0,5 - 3A/0,25								
<b>UL 508 CHARACTERISTICS</b>																		
General Use		10A-600V ac - 2,5A-125V dc								10A-600V ac - 2,5A-125V dc								
Heavy Duty (HD) category		A600-Q600								10A-600V ac - 2,5A-125V dc								
<b>STANDARD CONFORMITY</b>			<b>UL - IMQ - CCC - EAC - R.I.NA - AS/NZS</b>															
Approvals		EN60947-5-1, UL508																
Protection class mounted in PBS enclosure	<b>EN 60529</b>	IP66/67/69K IEC: Buttons and switches																
	<b>Conforms to UL50</b>	Type 1																
	<b>EN 60529</b>	IP20: Contacts																
		<b>PBS-CB-NC/PBS-CB-NO/PBS-CB-NCS/PBS-CB-NOS</b>																
Material Group	<b>EN60947-1</b>	II																
Pollution Grade	<b>EN60947-1</b>	3																
Flammability	<b>UL94</b>	VO: live parts																
Ambient Temperature	<b>°C</b>	Operating: -25 +70																
	<b>°C</b>	Storage: -30 +70																
Climate Protection	<b>IEC68 part 2-3</b>	Hot damp																
	<b>IEC68 part 2-30</b>	Unsettled Hot damp																
Terminals:																		
Dimension		A2																
Terminal screw		M3,5																
Tightening torque		1,2 Nm - EN60947-1 - 12 lb.in. UL508																
Capacity:																		
Solid and flexible conductors	Number of Cores <b>1 min/max mm<sup>2</sup></b>	1/2,5 screw terminals																
	Number of Cores <b>2 min/max mm<sup>2</sup></b>	1/2,5 screw terminals																
	<b>AWG</b>	20-12 screw terminals																
Mechanical life:	<b>mil./operations</b>																	
Push buttons with colour cap		3																
Standard rotary switches		1																

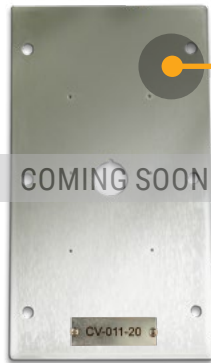
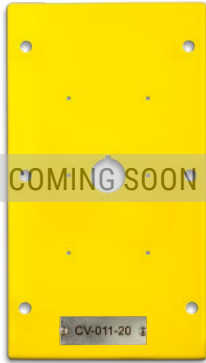


**DEVICE TAGS**

CHOOSE YOUR TAGS

TAGS CAN BE FITTED/UNFITTED-SUPPLIED WITH SCREWS

TAGS/FITTED	DIMENSIONS	CODE
 ENGRAVED TAG ONLY		<b>STT-DEVICETAG-SS</b>
 TAG FITTED TO DEVICE		<b>STT-DEVICETAG-SS-FIT</b>
 ENGRAVED TAG ONLY TIE ON TAG WITH STAINLESS STEEL WIRE ATTACHED TO ENCLOSURE		<b>STT-WIRETAG-SS</b>
 CV-011-20		<b>STT-WIRETAG-SS-FIT</b>



**NOTE:** For batch numbering of tags please supply the numbers in an excel format.

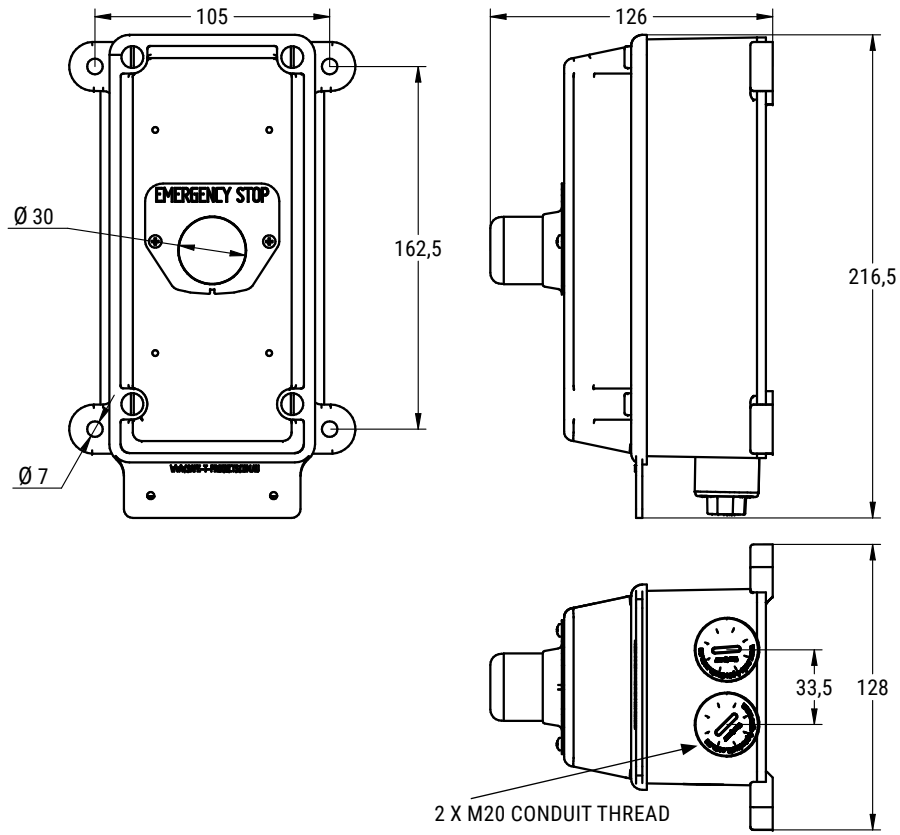
**STAINLESS STEEL/ALUMINIUM INSULATED SLOPING ROOF**

ROOF FITTED TO A **ES-SSB-22-TWI40** (EXAMPLE)



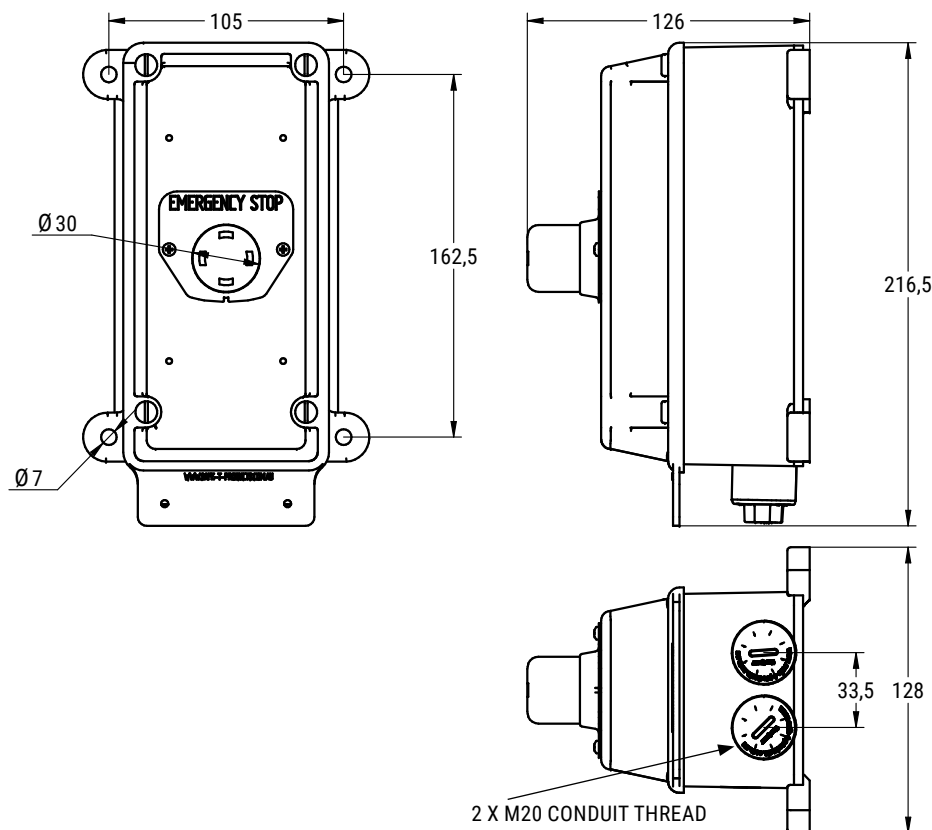
**ECP-SS-ISR90**  
**ECP-A-ISR90**

**DIMENSIONS-PC/PBT PLASTIC 30MM EMERGENCY STOP**



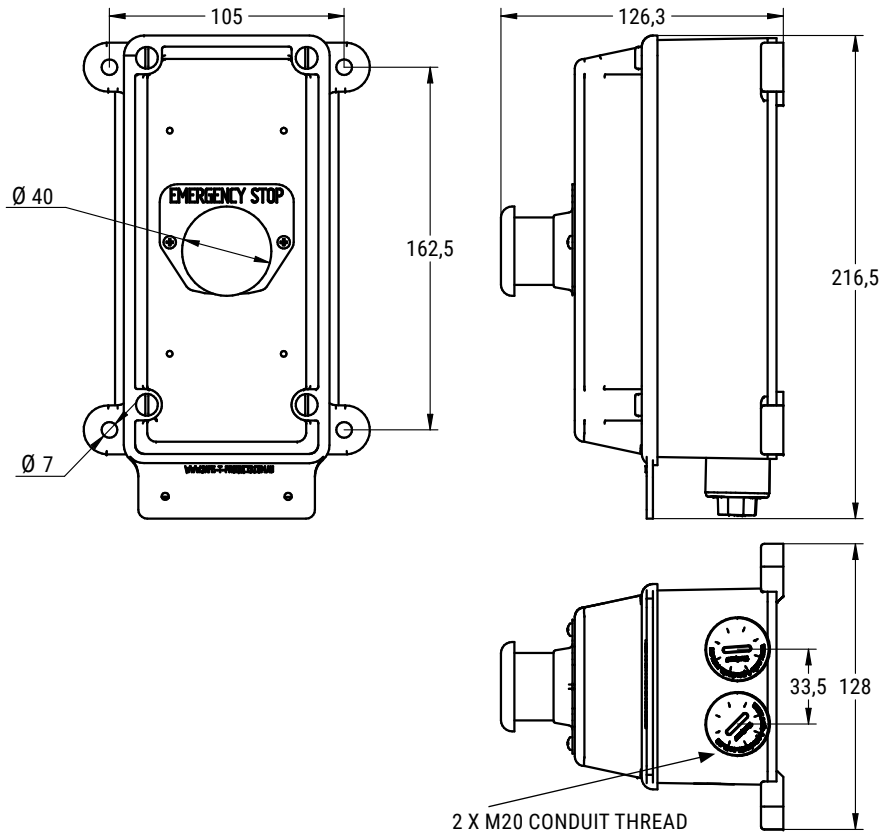
**ES-P-22-TW30**

**DIMENSIONS-PC/PBT PLASTIC 30MM INDICATOR EMERGENCY STOP**

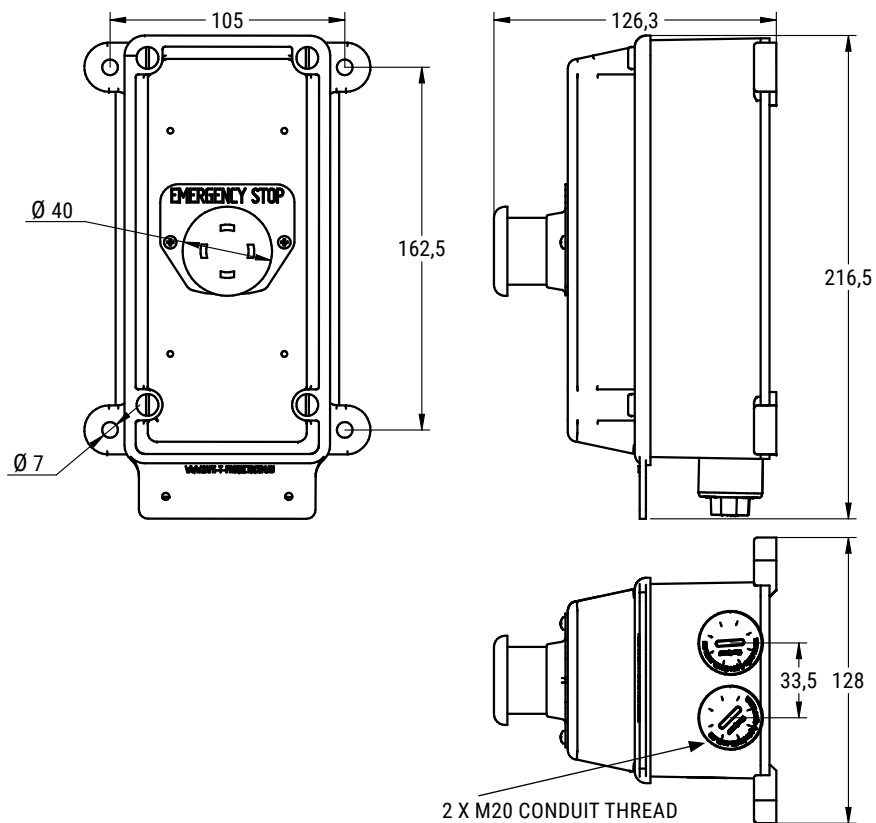


**ES-P-22-TWI30**

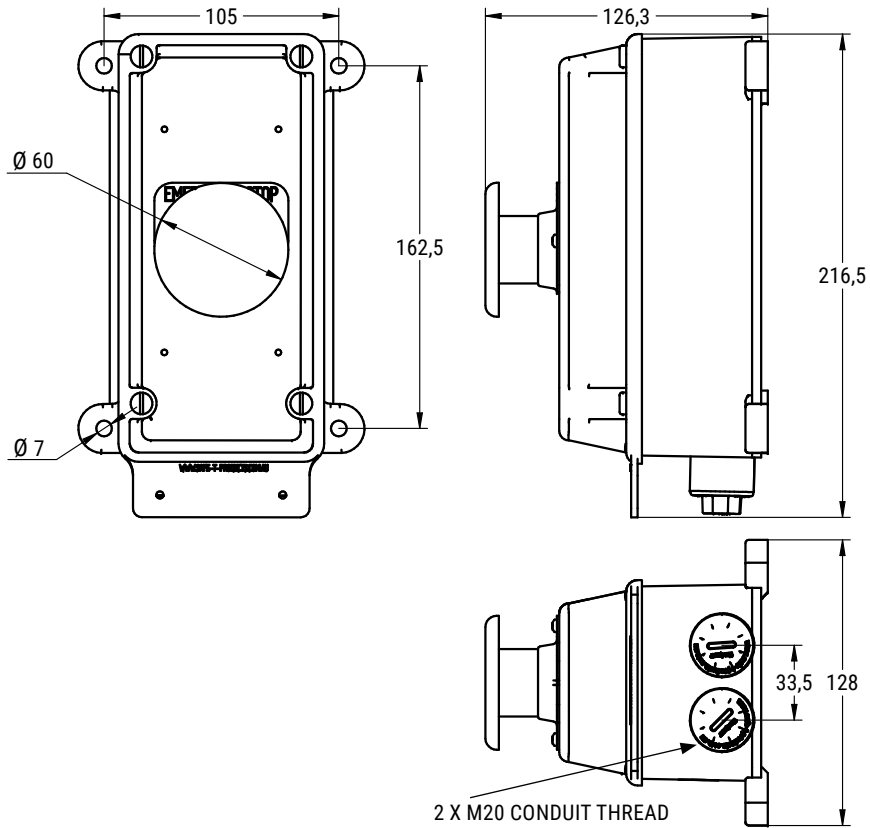
**DIMENSIONS-PC/PBT PLASTIC 40MM EMERGENCY STOP**



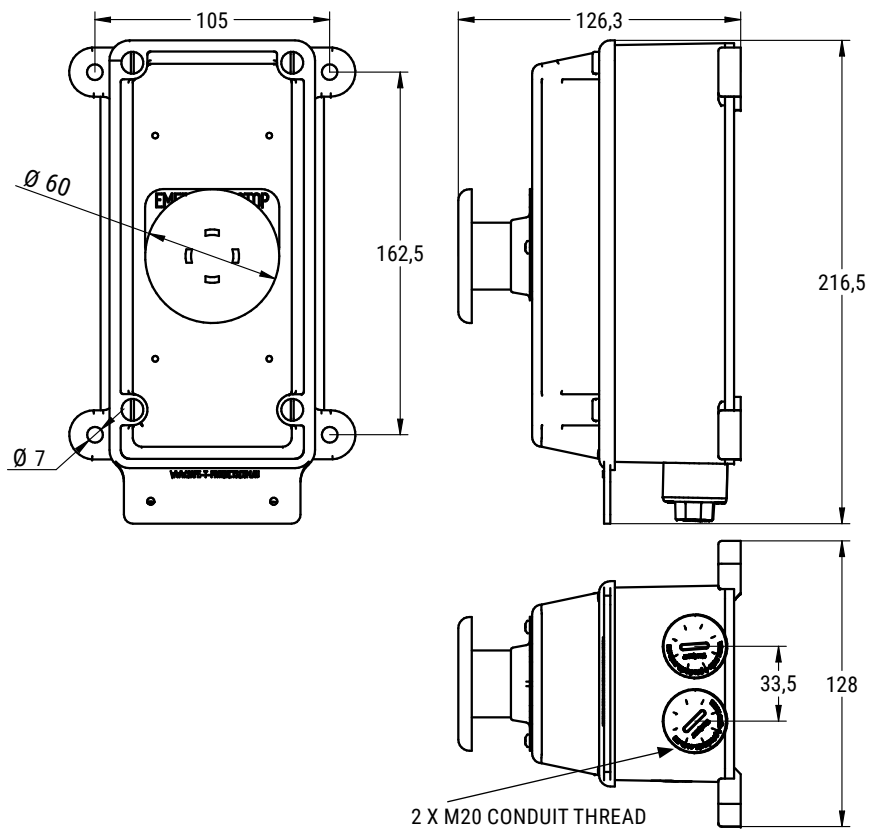
**DIMENSIONS-PC/PBT PLASTIC 40MM INDICATOR EMERGENCY STOP**



**DIMENSIONS-PC/PBT PLASTIC 60MM EMERGENCY STOP**

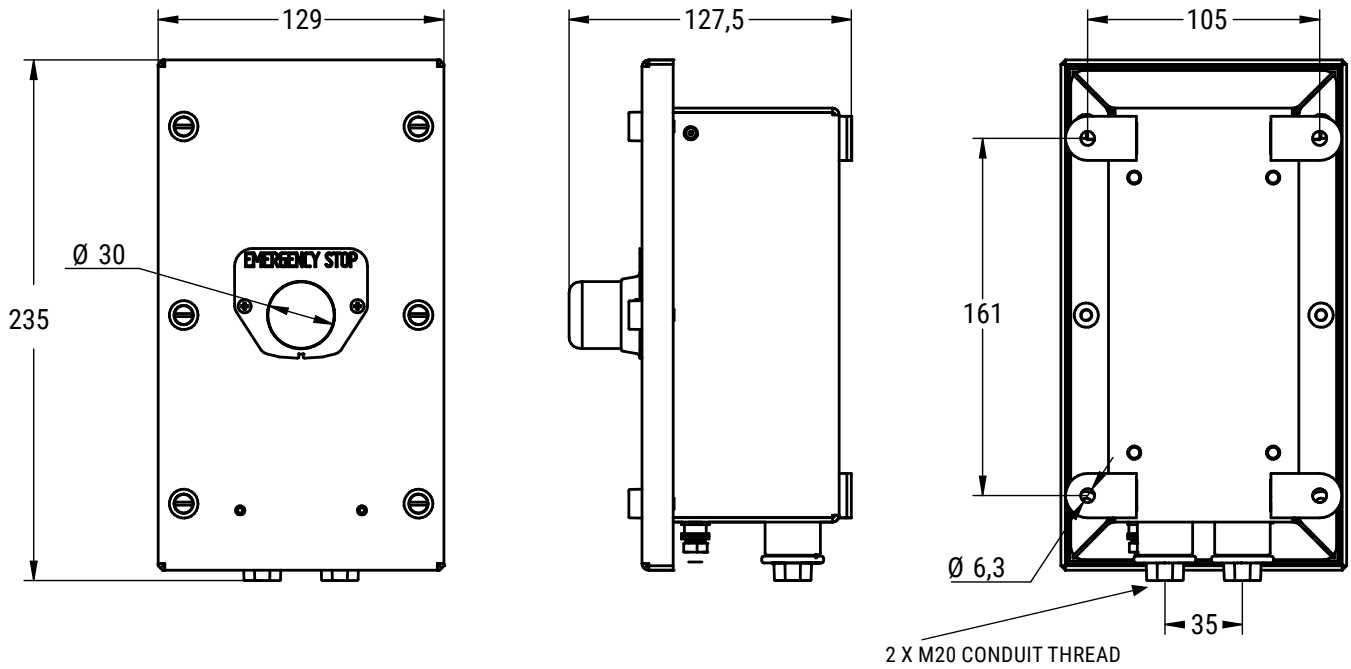


**DIMENSIONS-PC/PBT PLASTIC 60MM INDICATOR EMERGENCY STOP**



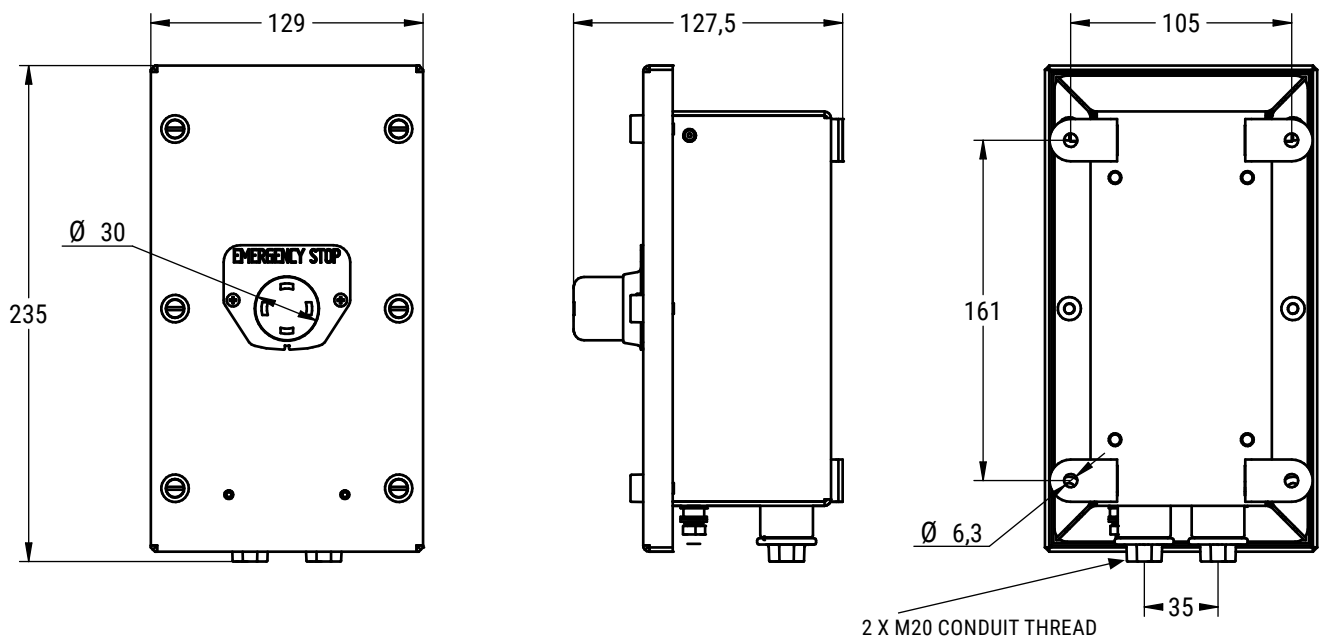
**DIMENSIONS-STAINLESS STEEL/ALUMINIUM 30MM EMERGENCY STOP**

ES-SSB-22-TW30  
ES-A-22-TW30



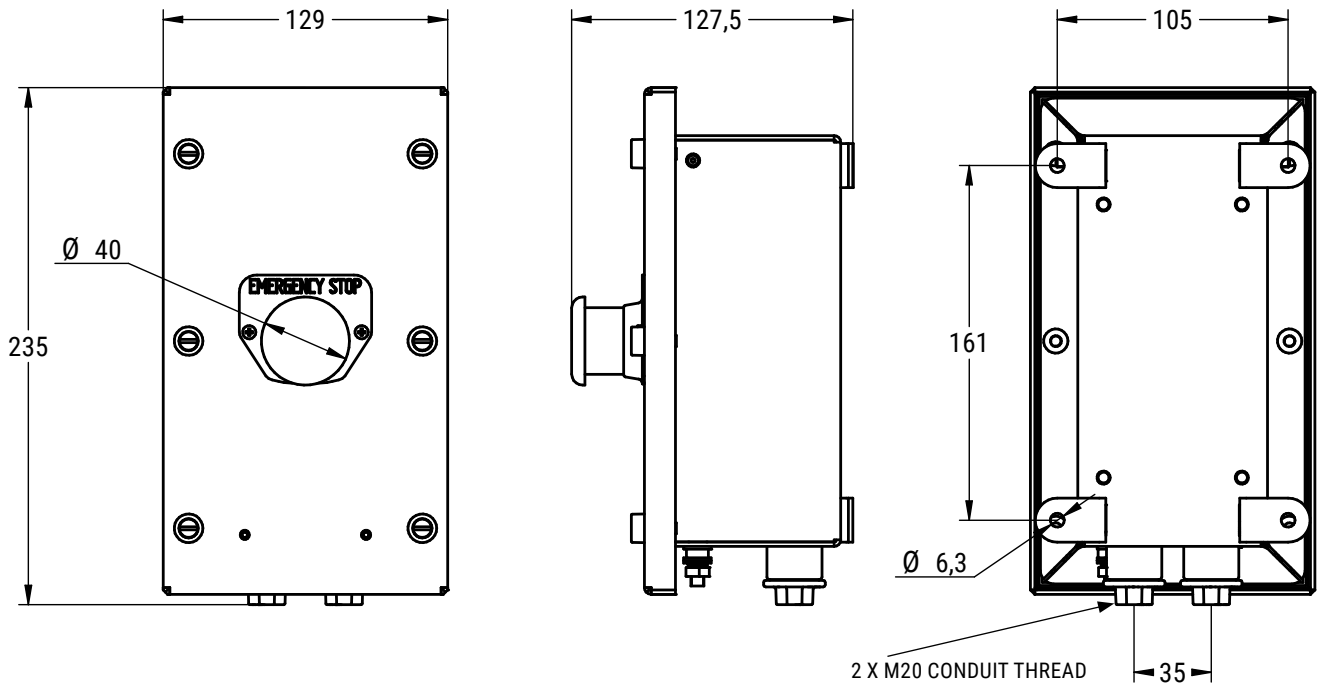
**DIMENSIONS-STAINLESS STEEL/ALUMINIUM 30MM INDICATOR EMERGENCY STOP**

ES-SSB-22-TWI30  
ES-A-22-TWI30



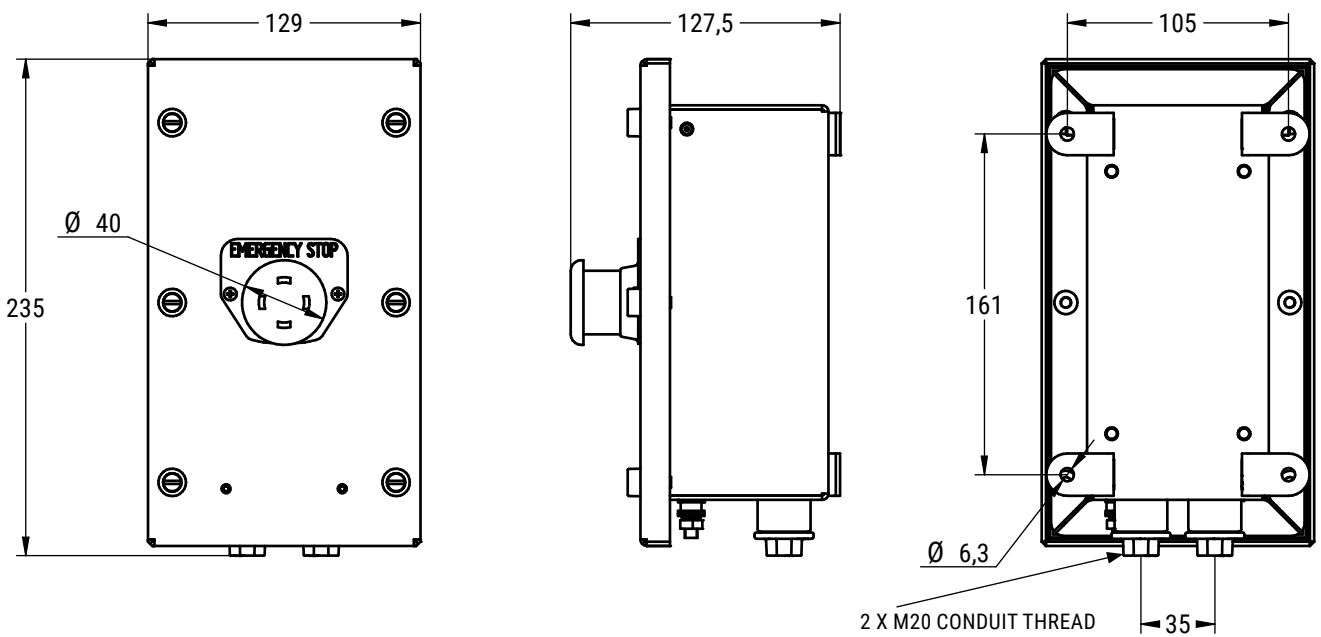
**DIMENSIONS-STAINLESS STEEL/ALUMINIUM 40MM EMERGENCY STOP**

ES-SSB-22-TW40  
ES-A-22-TW40



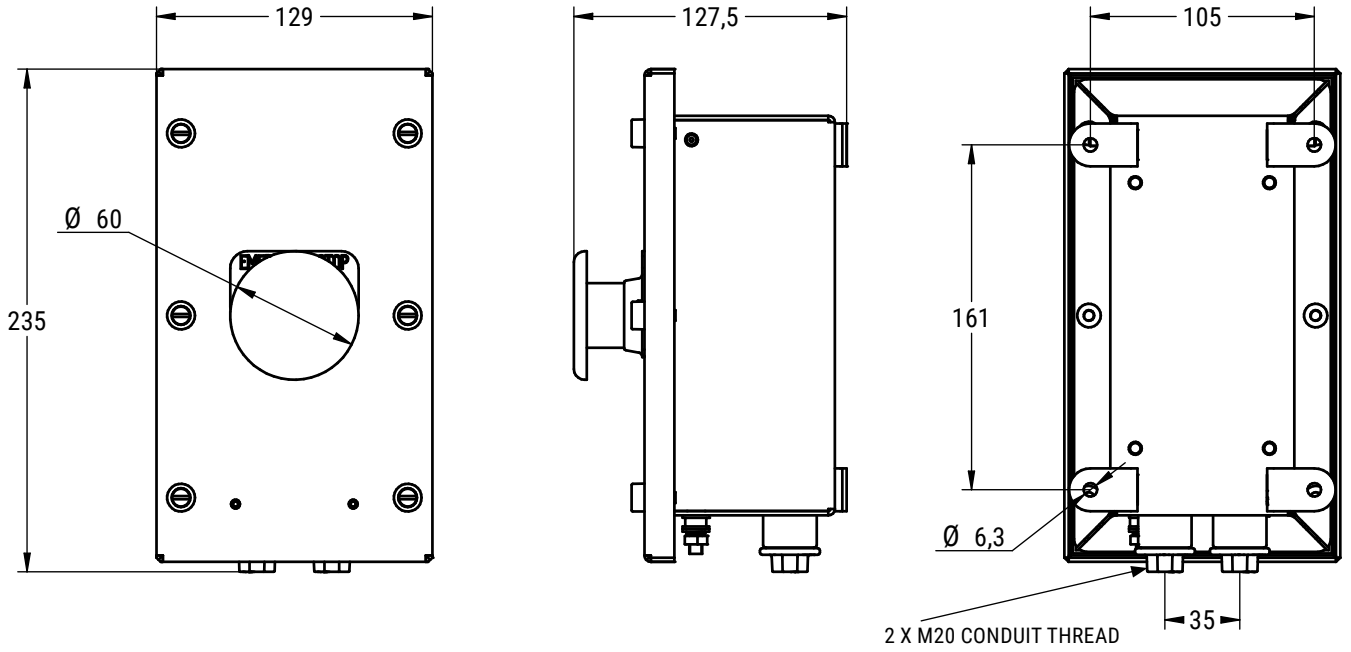
**DIMENSIONS-STAINLESS STEEL/ALUMINIUM 40MM INDICATOR EMERGENCY STOP**

ES-SSB-22-TWI40  
ES-A-22-TWI40



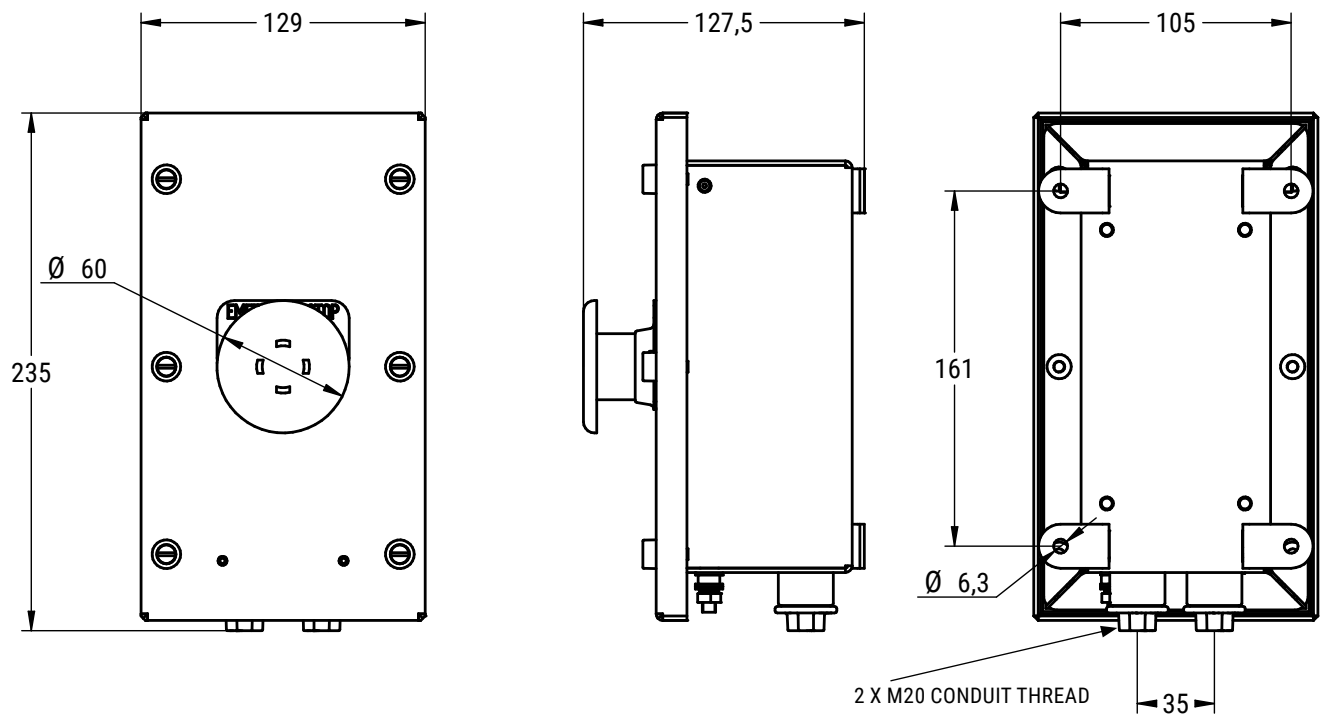
**DIMENSIONS-STAINLESS STEEL/ALUMINIUM 60MM EMERGENCY STOP**

ES-SSB-22-TW60  
ES-A-22-TW60



**DIMENSIONS-STAINLESS STEEL/ALUMINIUM 60MM INDICATOR EMERGENCY STOP**

ES-SSB-22-TWI60  
ES-A-22-TWI60



**DIMENSIONS-STAINLESS STEEL/ALUMINIUM SLOPING ROOF EMERGENCY STOP**

