

Unicode™ 2 | U4 Series Polycarbonate Control Stations

Increased Safety

ATEX/IECEx: Zones 1 and 2 – 21 and 22
Notable: UKEX, INMETRO Certified

Applications

- Local control stations and motor control stations for use in hazardous areas covering the broadest possible range of applications.
- Control of equipment at:
 - Power plants
 - Chemical and petrochemical plants
 - Petroleum refineries
 - Reverse osmosis plants
 - Pulp and paper processing plants
 - Various industrial applications
- Push buttons and selector switches are used for remote control of motors and other electric circuits in hazardous locations.
- Pilot lights provide visual assurance that an electrical function is being performed at a remote or hazardous location.

Features

- Operators include push buttons, illuminated push buttons, selector switches, control and load break switches.
- Pilot light employs high intensity single LED that can be used at:
 - 12 Vac to 254 Vac 50/60 Hz
 - 12 Vdc to 60 Vdc
- Up to 3 contact blocks per actuator can be used.
- M20 polyamide cable gland for unarmored cable Ø 5.5 mm -14 mm (0.22 in - 0.55in).
- Contact block technical data:
 - IEC rated operating voltage (Ue): 500 Vac – 110 Vdc
 - IEC switching capacity:
 - AC12: 16 Amp/400 Vac
 - AC14: 10 Amp/400 Vac
 - AC15: 6 Amp/500 Vac
 - DC13: 2 Amp/24 Vdc and 1 Amp/110 Vdc
- Selector switch technical data:
 - IEC rated operating voltage: 690 Vac
 - IEC rated operating current: maximum 16 Amp
 - IEC switching capacity:
 - AC1: 16 Amp/690 Vac
 - AC15: 16 Amp/415 Vac
 - AC3: 8 Amp/500 Vac
 - AC3: 4 Amp/690 Vac
 - AC3: 16 Amp/690 Vac
 - DC1: 10 Amp/24 Vdc
 - DC1: 6 Amp/60 Vdc
 - DC1: 6 Amp/110 Vdc (2 contacts wired in series)
 - DC1: 6 Amp/220 Vdc (3 contacts in series)
- Enclosures are rated for IP66 with firmly secured gasket.
- Operators and contact blocks are spaced for easy wiring.
- TS35 rail mounted components held securely in place during operation and easily removed for service.
- Captive, corrosion resistant stainless steel cover screws.

Standard Materials

- Body, cover: polycarbonate, black finish
- Cover screws: 316L stainless steel



U42W2A5A9

U43W2CA13M3

Polycarbonate

Accessories

- Key for changing actuator blocks.
- Guard for mushroom head actuator.
- Padlockable guard.
- Combination drain and breather available in polyamide.

Options

- Nameplates: other materials and colors available
- Padlocking facility for actuator blocks
- Other actuator blocks configurations available.

ATEX/IECEx Certifications and Compliances

- Certification Type: U4
 - Gas: Zone 1 and 2
 - Conforming to ATEX 2014/34/EU: Ⓢ II 2 G
 - Type of Protection: Ex eb IIC, Ex db eb IIC, Ex eb mb IIC, Ex db eb mb IIC Gb (depending on components)
 - Temperature Class: T6
 - Dust: Zone 21 and 22
 - Conforming to ATEX 2014/34/EU: Ⓢ II 2 D
 - Type of Protection: Ex tb IIIC Db
 - Surface Temperature: T70 °C (T158 °F)
 - Ambient Temperature: -20 °C to +55 °C (-4 °F to +131 °F)
 - ATEX Certificate: INERIS 21ATEX0002X
 - IECEx Certificate: IECEx INE 21.0004X
 - Index of Protection according EN/IEC 60529: IP66
 - Impact Resistance (shock): IK09 ①

UKEX Certifications

- UKEX Certificate: CML21UKEX11411X

INMETRO Certifications

- INMETRO Certificate: BVC22.4130-X

① Other configurations available with IK10 on request. Please contact your local sales representative

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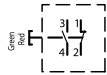



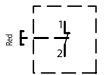

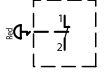

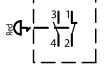
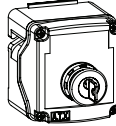
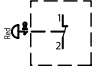
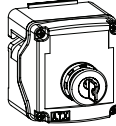
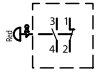

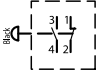

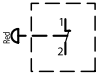

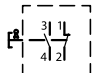
Increased Safety

ATEX/IECEx: Zones 1 and 2 – 21 and 22
 Notable: UKEX, INMETRO Certified

Size 1 Polycarbonate Control Station: ①

Included: 1 white self-adhesive gravoply nameplate black fonts, 2 x M20 bottom clearance entries, 1 blanking plug, 1 cable gland in polyamide, 2 locknuts.
 Maximum current I_{max} per contact is 14A.



Description/Function	Diagram	Bottom Entries	Weight kg (lb)	Volume dm ³ (in ³)	Catalog Number
Momentary Push Button					
 Green insert 'I' + red insert 'O' with 1NO + 1NC momentary contacts		2 x M20	0.48 (1.06)	2.5 (152.56)	U41W2A3
 1x green push button "I" with 1NO momentary contact		2 x M20	0.48 (1.06)	2.5 (152.56)	U41W2A5
 1x red push button "O" with 1NC momentary contact		2 x M20	0.48 (1.06)	2.5 (152.56)	U41W2A9
Emergency Stop					
 Red mushroom head push-pull 1NC maintained contact		2 x M20	0.48 (1.06)	2.5 (152.56)	U41W2D9
 Red mushroom head push-pull 1NO + 1NC maintained contacts		2 x M20	0.48 (1.06)	2.5 (152.56)	U41W2D3
 Red mushroom head key release 1NC maintained contact		2 x M20	0.48 (1.06)	2.5 (152.56)	U41W2C9
 Red mushroom head key release 1NO + 1NC maintained contacts		2 x M20	0.48 (1.06)	2.5 (152.56)	U41W2C3
Mushroom Head Push Button					
 Black mushroom head push button 1NO + 1NC momentary contacts		2 x M20	0.48 (1.06)	2.5 (152.56)	U41W2B3
 Red mushroom head push button 1NC momentary contact		2 x M20	0.48 (1.06)	2.5 (152.56)	U41W2R9
Key Push Button					
 With key removable in both positions 1NO + 1NC maintained contacts		2 x M20	0.48 (1.06)	2.5 (152.56)	U41W2E3

① Other configurations available on request. Please contact your local sales representative.

Unicode™ 2 | U4 Series Polycarbonate Control Stations



Increased Safety

ATEX/IECEx: Zones 1 and 2 – 21 and 22
 Notable: UKEX, INMETRO Certified

Size 1 Polycarbonate Control Station: ①

Included: 1 white self-adhesive gravoply nameplate black letters, 2 x M20 bottom clearance entries, 1 blanking plug, 1 cable gland in polyamide, 2 locknuts.

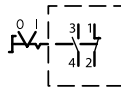


Description/Function	Diagram	Bottom Entries	Weight kg (lb)	Volume dm ³ (in ³)	Catalog Number
Pilot Light (Umax 264 Vac/60 Vdc)					
1x red pilot light		2 x M20	0.48 (1.06)	2.5 (152.56)	U41W2PR
	1x green pilot light	2 x M20	0.48 (1.06)	2.5 (152.56)	U41W2PG
	1x blue pilot light	2 x M20	0.48 (1.06)	2.5 (152.56)	U41W2PB
	1x yellow pilot light	2 x M20	0.48 (1.06)	2.5 (152.56)	U41W2PY
	1x white pilot light	2 x M20	0.48 (1.06)	2.5 (152.56)	U41W2PW
					

2-Position Selector Switch (Imax = 14A)



2 fixed positions '0 - I'
 1NO + 1NC contacts



2 x M20

0.48 (1.06)

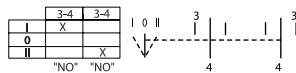
2.5 (152.56)

U41W2H3

3-Position Selector Switch (Imax = 13A)



3 fixed positions 'I - 0 - II'
 2NO contacts



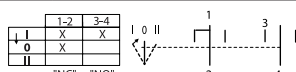
2 x M20

0.48 (1.06)

2.5 (152.56)

U41W2J1

3 positions 'I - 0 - II'
 With spring return from I to 0
 1NO + 1NC contacts



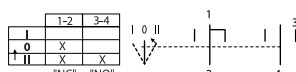
2 x M20

0.48 (1.06)

2.5 (152.56)

U41W2N3

3 positions 'I - 0 - II'
 With spring return from II to 0
 1NO + 1NC contacts



2 x M20

0.48 (1.06)

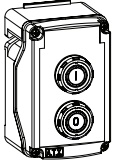

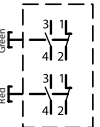
2.5 (152.56)

U41W2M3

Size 2 Polycarbonate Control Station:

Included: 1 white self-adhesive gravoply nameplate black letters, 2 x M20 bottom clearance entries, 1 blanking plug, 1 cable gland in polyamide, 2 locknuts.



Description/Function	Diagram	Bottom Entries	Weight kg (lb)	Volume dm ³ (in ³)	Catalog Number	
Twin Push Button (Imax = 14A)						
	1x green push button 'I' with 1NO contact, 1x red push button 'O' with 1NC contact momentary contacts		2 x M20	0.62 (1.37)	2.5 (152.56)	U42W2A5A9
	1x green push button 'I' with 1NO + 1NC contacts 1x red push button 'O' with 1NO + 1NC contacts momentary contacts		2 x M20	0.62 (1.37)	2.5 (152.56)	U42W2A3A3

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Unicode™ 2 | U4 Series Polycarbonate Control Stations

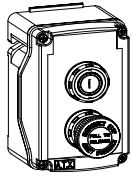
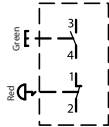
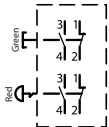
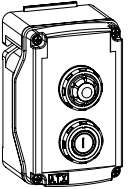
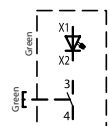
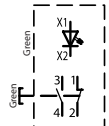
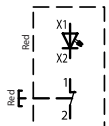
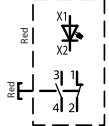
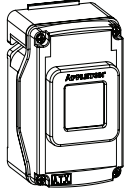
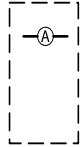
Increased Safety

ATEX/IECEx: Zones 1 and 2 – 21 and 22
 Notable: UKEX, INMETRO Certified

Size 2 Polycarbonate Control Station: ①

Included: 1 white self-adhesive gravoply nameplate black letters, 2 x M20 bottom clearance entries, 1 blanking plug, 1 cable gland in polyamide, 2 locknuts.



Description/Function	Diagram	Bottom Entries	Weight kg (lb)	Volume dm ³ (in ³)	Catalog Number
Push Button + Push-Pull Emergency Stop (I_{max} = 14A)					
 <p>1x green push button 'I' with 1NO momentary contact 1x red mushroom head push-pull emergency with 1NC maintained contact</p>		2 x M20	0.62 (1.37)	2.5 (152.56)	U42W2A5D9
		2 x M20	0.62 (1.37)	2.5 (152.56)	U42W2A3D3
Pilot Light (U_{max}264 Vac/60 Vdc) + Push Button (I_{max} = 14A)					
 <p>1x green light 1x green push button 'I' with 1NO momentary contact</p>		2 x M20	0.62 (1.37)	2.5 (152.56)	U42W2PGA5
		2 x M20	0.62 (1.37)	2.5 (152.56)	U42W2PGA3
		2 x M20	0.62 (1.37)	2.5 (152.56)	U42W2PRA9
		2 x M20	0.62 (1.37)	2.5 (152.56)	U42W2PRA3
Ammeter (I_{max} = 1A)					
 <p>1x ammeter 48 x 48 mm, (1.89" x 1.89") 1A C.T., 3 F.L.C., with 0 - 1 - 3 scale</p>		2 x M20	0.56 (1.23)	2.5 (152.56)	U42W2CA13

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Unicode™ 2 | U4 Series Polycarbonate Control Stations

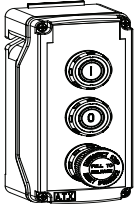
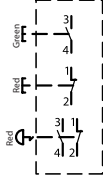
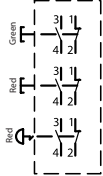
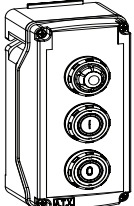
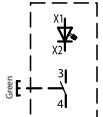
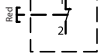
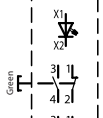
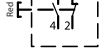
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ATEX/IECEx: Zones 1 and 2 – 21 and 22
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Size 3 Polycarbonate Control Station: ①

Included: 1 white self-adhesive gravoply nameplate black letters, 2 x M20 bottom clearance entries, 1 blanking plug, 1 cable gland in polyamide, 2 locknuts.



Description/Function	Diagram	Bottom Entries	Weight kg (lb)	Volume dm³ (in³)	Catalog Number
Twin Push Buttons + Push-Pull Emergency Stop (I_{max} = 14A)					
 <p>1x green push button 'I' with 1NO contacts 1x red push button 'O' with 1NC contact momentary contacts 1x red mushroom head push-pull emergency button with 1NO + 1NC maintained contacts</p>		2 x M20	0.78 (1.72)	2.5 (152.56)	U43W2A5A9D3
	<p>1x green push button 'I' with 1NO + 1NC contacts momentary contacts 1x red push button 'O' with 1NO + 1NC contacts momentary contacts 1x red mushroom head push-pull emergency button with 1NO + 1NC maintained contacts</p>		2 x M20	0.78 (1.72)	2.5 (152.56)
Pilot Light (U_{max} 264 Vac/60 Vdc) + Twin Push Buttons (I_{max} = 14A)					
 <p>1x green light 1x green push button 'I' with 1NO contact momentary contacts 1x red push button 'O' with 1NC contact momentary contacts</p> <p>1x red light 1x green push button 'I' with 1NO contact momentary contacts 1x red push button 'O' with 1NO contact momentary contacts</p> <p>1x green light 1x green push button 'I' with 1NO + 1NC contacts momentary contacts 1x red push button 'O' with 1NO + 1NC contacts momentary contacts</p> <p>1x red light 1x green push button 'I' with 1NO + 1NC contacts momentary contacts 1x red push button 'O' with 1NO + 1NC contacts momentary contacts</p>		2 x M20	0.78 (1.72)	2.5 (152.56)	U43W2PGA5A9
		2 x M20	0.78 (1.72)	2.5 (152.56)	U43W2PRA5A9
		2 x M20	0.78 (1.72)	2.5 (152.56)	U43W2PGA3A3
		2 x M20	0.78 (1.72)	2.5 (152.56)	U43W2PRA3A3

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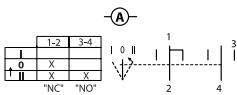
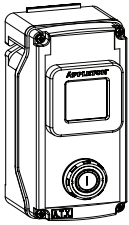
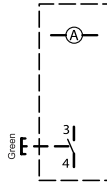

Increased Safety

ATEX/IECEx: Zones 1 and 2 – 21 and 22
 Notable: UKEX, INMETRO Certified

Size 3 Polycarbonate Control Station: ①

Included: 1 white self-adhesive gravoply nameplate black letters, 2 x M20 bottom clearance entries, 1 blanking plug, 1 cable gland in polyamide, 2 locknuts.



Description/Function	Diagram	Bottom Entries	Weight kg (lb)	Volume dm³ (in³)	Catalog Number
Ammeter + 3-Position Selector Switch (I_{max} = 13A)					
 <p>1x ammeter 1.89 x 1.89 in/48 x 48 mm, 1A C.T., 3 F.L.C., with 0 - 1 - 3 scale 1x 3-position selector switch 'I - 0 - II' with spring return from II to 0 1NO + 1NC contacts</p>		2 x M20	0.80 (1.76)	2.5 (152.56)	U43W2CA13M3
Ammeter + Push button (I_{max} = 13A)					
 <p>1x ammeter 1.89 x 1.89 in/ 48 x 48 mm, 1A C.T., 3 F.L.C., with 0-1-3 scale 1 x green push button 'I' with NO momentary contact</p>		2 x M20	0.80 (1.76)	2.5 (152.56)	U43W2CA13A5
Special Accessories for Polycarbonate Enclosure					
 <p>Tube or Frame Fixing FOR SIZE 1 ONLY For all tube diameter ≥ 80 mm (3.15") Using a metal strip (not supplied) maximum width 22 mm (0.87")</p>					098656

① Other configurations available on request. Please contact your local sales representative.

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Nameplates — Set of 10

Blank self-adhesive, laminated plastic 58 mm x 18 mm (2.29" x 0.71").

Color	Catalog Number
White (black letters)	UNPW
Yellow (black letters)	UNPY
Red (white letters)	UNPR
Blue (white letters)	UNPB
Black (white letters)	UNPN
Green (white letters)	UNPG

Inserts for Push Button — Set of 5

Marking	Color	Catalog Number
(unmarked)	Green	UIAG
(unmarked)	Red	UIAR
(unmarked)	Yellow	UIAY
(unmarked)	White	UIAW
(unmarked)	Blue	UIAB
(unmarked)	Black	UIAN
ON	Green	UIA01
OFF	Red	UIA02
START	Green	UIA03
STOP	Red	UIA04
MARCHE	Green	UIA05
ARRET	Red	UIA06
I	Green	UIA07
O	Red	UIA08

Inserts for Illuminated Push Button — Set of 5

Marking	Color	Catalog Number
(unmarked)	Green	UILG
(unmarked)	Red	UILR
(unmarked)	Yellow	UILY
(unmarked)	White	UILW
(unmarked)	Blue	UILB
ON	Green	UIL01
OFF	Red	UIL02
START	Green	UIL03
STOP	Red	UIL04
MARCHE	Green	UIL05
ARRET	Red	UIL06
I	Green	UIL07
O	Red	UIL08

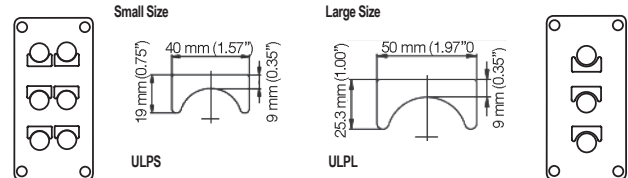
Spare Key

For all key-operated buttons.

Description	Catalog Number
Spare key type 4 A 185	SK4A185

Standard Legend Plates

Two sizes available. Self-adhesive yellow laminated plastic (black lettering).



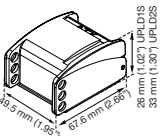








Text	Catalog Number	
	Small	Large
Blank (set of 10)	ULPS	ULPL
ON	ULPSA01	ULPLA01
OFF	ULPSA02	ULPLA02
FORWARD	ULPSA03	ULPLA03
REVERSE	ULPSA04	ULPLA04
JOG	ULPSA05	ULPLA05
RUN	ULPSA06	ULPLA06
START	ULPSA07	ULPLA07
STOP	ULPSA08	ULPLA08
UP	ULPSA09	ULPLA09
DOWN	ULPSA10	ULPLA10
FAST	ULPSA11	ULPLA11
SLOW	ULPSA12	ULPLA12
RAISE	ULPSA13	ULPLA13
LOWER	ULPSA14	ULPLA14
OPEN	ULPSA15	ULPLA15
CLOSE	ULPSA16	ULPLA16
LOW	ULPSA17	ULPLA17
HIGH	ULPSA18	ULPLA18
TEST	ULPSA19	ULPLA19
RESET	ULPSA20	ULPLA20
EMERGENCY STOP	ULPSA21	ULPLA21
MARCHE	ULPSA22	ULPLA22
ARRET	ULPSA23	ULPLA23
ARRET D'URGENCE	ULPSA24	ULPLA24
HAUT	ULPSA25	ULPLA25
BAS	ULPSA26	ULPLA26
O - I	ULPSH01	ULPLH01
ON - OFF	ULPSH02	ULPLH02
START - STOP	ULPSH03	ULPLH03
STOP - START	ULPSH04	ULPLH04
HAND - AUTO	ULPSH05	ULPLH05
MANU - AUTO	ULPSH06	ULPLH06
FORWARD - REVERSE	ULPSH07	ULPLH07
REMOTE - LOCAL	ULPSH08	ULPLH08
MARCHE - ARRET	ULPSH09	ULPLH09
I - O - II	ULPSJ01	ULPLJ01
OFF - O - ON	ULPSJ02	ULPLJ02
START - NORMAL - STOP	ULPSJ03	ULPLJ03
HAND - OFF - AUTO	ULPSJ04	ULPLJ04
MANU - O - AUTO	ULPSJ05	ULPLJ05
FORWARD - OFF - REVERSE	ULPSJ06	ULPLJ06
LOCAL - REMOTE - AUTO	ULPSJ07	ULPLJ07
LOCAL - O - REMOTE	ULPSJ08	ULPLJ08
MARCHE - NORMAL - ARRET	ULPSJ09	ULPLJ09

Unicode™ 2 | U4 Series Polycarbonate Control Stations

Increased Safety

ATEX/IECEx: Zones 1 and 2 – 21 and 22
 Notable: UKEX, INMETRO Certified

	Description	Catalog Number
	<p>Additional Contacts</p> <p>Each actuator is capable of activating 3 contacts. Exception: Illuminated push button and all actuators with key: 2 contacts maximum</p> <p>1NO contact</p> <p>1NC contact</p>	<p>UCB5R</p> <p>UCB9R</p>
	<p>Yellow Guard</p> <p>Mushroom head protection for emergency stop</p>	<p>098657</p>
	<p>Padlockable Guard</p> <p>Stainless steel and plastic cover, capacity: 3 padlocks diameter 6 mm (0.24") maximum (not supplied)</p> <p>For push button and rotary actuator</p> <p>For mushroom head actuator</p>	  <p>UPLD1S</p>  <p>UPLD2S</p>
	<p>Cable Gland Exe</p> <p>For unarmored cable Exe - IP66 - in polyamide with entry thread seal</p> <p>M20 (capacity 5.5-14.5 mm)</p>	<p>20DTSPE1TAL</p>
	<p>Entry Thread Seal</p> <p>M20 (in white nylon)</p>	<p>20ETS2</p>
	<p>Combination Drain and Breather</p> <p>Exe - IP66 - supplied with entry thread seal and locknut</p> <p>M20 male thread in Polyamide</p>	<p>DBE20P</p>

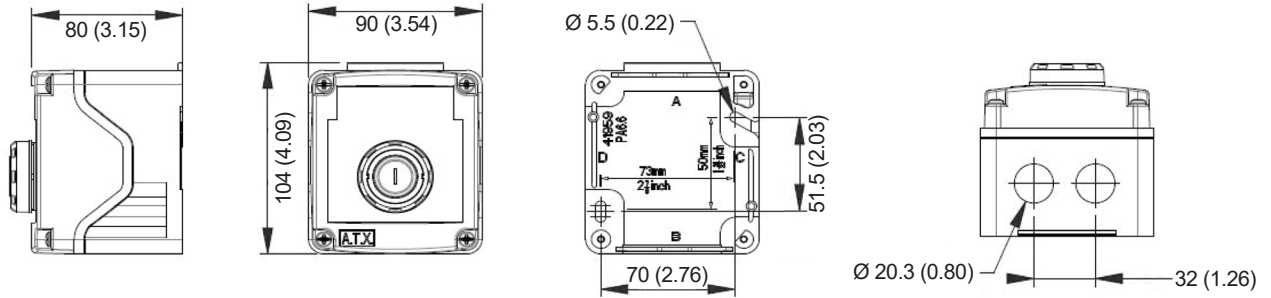
Unicode™ 2 | U4 Series Polycarbonate Control Stations

Increased Safety

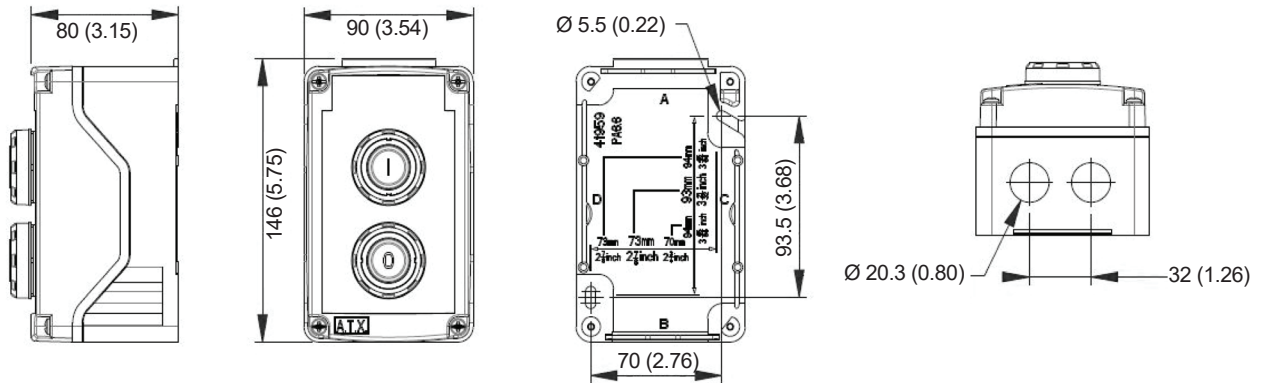
ATEX/IECEx: Zones 1 and 2 – 21 and 22
 Notable: UKEX, INMETRO Certified

Dimensions in Millimeters (Inches)

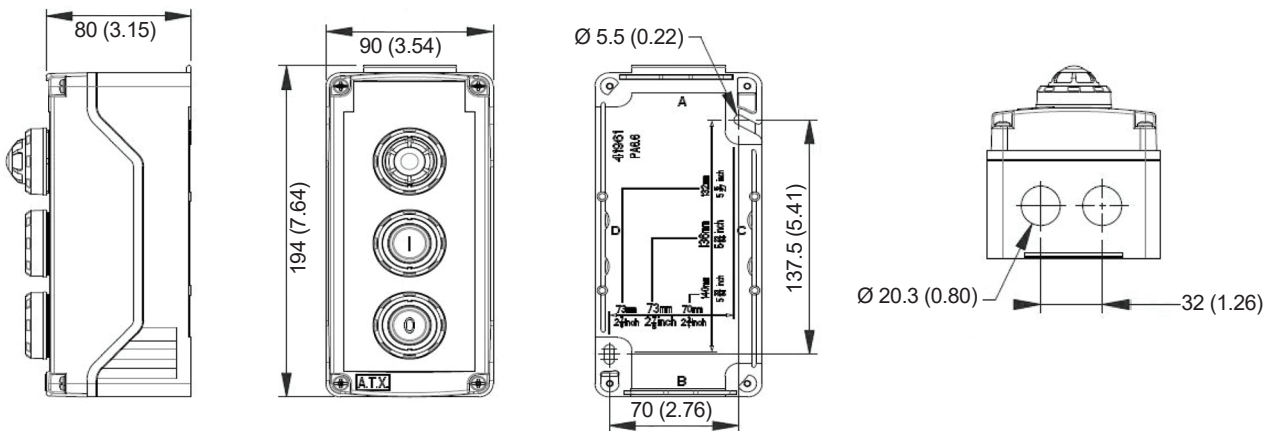
Size 1



Size 2



Size 3



Control Stations and Panels