Unicode™ 2 Series Polyamide Control Stations

Increased Safety

For use in IEC governed hazardous areas. Polyamide is not recognized for use in any NEC/CEC governed hazardous areas.

ATEX:
Zone 1 and 2 – 21 and 22
⟨Ex⟩ II 2 GD
Ex de IIC/Ex demb IIC/Ex tD A21
IP66 – IK09

Applications

- For use in IEC governed hazardous areas. Polyamide is not recognized for use in any NEC/CEC governed hazardous areas.
- 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 in conjunction with contactors or magnetic starters for remote control of motors in hazardous locations. They provide circuit control and/or selection.
- Pilot lights provide visual assurance that an electrical function is being performed at a remote or hazardous location.
- For use in washdown areas.

Features

- Employs Ex de method of protection which eliminates the need for external seals.
- Operators include push buttons, illuminated push buttons, selector switches, control and load break switches and LED pilot lights.
- Pilot light employs high intensity single LED with lifetime of 100,000 hours 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.
- 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
  — NEMA switching capacity: A600: 10 Amp/600 Vac
- 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)
  — NEMA switching capacity: A600: 10 Amp/600 Vac
- Enclosures are rated for IP66 with firmly secured gasket.
- Operators and contact blocks are spaced for easy wiring.
- Wide selection of termination methods available.
- Choice of DIN rail mounted high performance contact block suitable for low intensity (less than 5 mA).

U43W2 VA13A5A9

U42W2 A5A9

- TS35 rail mounted components held securely in place during operation and easily removed for service.
- Brass Inserts are provided for TS35 DIN rails or mounting plate to be installed inside the enclosure.
- Captive, corrosion resistant stainless steel cover screws.

Standard Materials

- Body, cover, cable gland and blanking plug: polyamide, black finish
- Cover screws: stainless steel
- Optional nameplates: stainless steel

Accessories

- Key for changing actuator blocks.
- Guard for mushroom head actuator.
- Padlockable guard.
- M5 earth stud.
- Combination drain and breather available in brass, polyamide and stainless steel.

Options

- Nameplates: Lamacoid with different color combinations.
- Padlocking ability at left, center, right or any position on selector switches.
- Padlocking ability for momentary and maintained push buttons.
- Special contact arrangements available, see *Unicode 2 Series Customized Control Stations*.

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Unicode™ 2 Series Polyamide Control Stations

Increased Safety

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ATEX:
Zone 1 and 2 – 21 and 22
⟨Ex⟩ II 2 GD
Ex de IIC/Ex demb IIC/Ex tD A21
IP66 – IK09

ATEX Certifications and Compliances

- Certification Type PCe
  - Gas: Zone 1 and 2
    - Conforming to ATEX 94/9/CE: ⟨Ex⟩ II 2 G
    - Type of Protection: Ex de IIC/Ex demb IIC (depending of the actuator)
    - Temperature Class: T6
  - Dust: Zone 21 and 22
    - Conforming to ATEX 94/9/CE: ⟨Ex⟩ II2 D
    - Type of Protection: Ex tD A21
  - Surface Temperature: T75 °C (T167 °F)
  - Ambient Temperature: -20 °C to +55 °C (-4 °F to +131 °F)
  - CE Declaration of Conformity: 50221
  - ATEX Certificate: LCIE 00 ATEX 6047
  - Index of Protection according EN/IEC 60529: IP66
  - Impact Resistance (shock): IK09

EURASEC Certification

- EURASEC RU C-FR Гб05.B.00911

Other Certification ①

- INMETRO Certificate: BVC 11.0640-X

① INMETRO certification available on special request only. Contact your local sales representative for more information.

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Zone 1 and 2 – 21 and 22
⟨Ex⟩ II 2 GD
Ex de IIC/Ex demb IIC/Ex tD A21
IP66 – IK09

Size 1 Polyamide Control Station:
Included: 1 white self-adhesive laminated plastic nameplate, 2 x M20 bottom clearance entries, 1 blanking plug, 1 cable gland in polyamide [Ø 6.5 mm to 14.5 mm (0.26" to 0.57")], 2 locknuts.
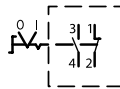
Description/Function	Diagram	Bottom Entries	Weight kg (lb)	Volume dm³ (in³)	Catalog Number
Momentary Push Button					
Green insert 'I' + red insert 'O' with 1NO + 1NC momentary contacts		2 x M20	0.48 (1.06)	2.5 (152.56)	**U41W2A3**
1x green push button "I" with 1NO momentary contact		2 x M20	0.48 (1.06)	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**

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Size 1 Polyamide Control Station:
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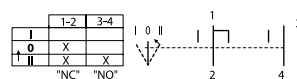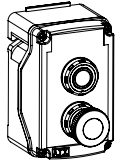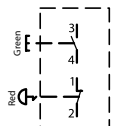| Description/Function	Diagram	Bottom Entries	Weight kg (lb)	Volume dm³ (in³)	Catalog Number
Pilot Light					
1x red pilot light ①		2 x M20	0.48 (1.06)	2.5 (152.56)	**U41W2PR**
1x green pilot light ①		2 x M20	0.48 (1.06)	2.5 (152.56)	**U41W2PG**
1x blue pilot light ①		2 x M20	0.48 (1.06)	2.5 (152.56)	**U41W2PB**
1x yellow pilot light ①		2 x M20	0.48 (1.06)	2.5 (152.56)	**U41W2PY**
1x white pilot light ①		2 x M20	0.48 (1.06)	2.5 (152.56)	**U41W2PW**
2-Position Selector Switch					
2 fixed positions ' 0 - I ' 1NO + 1NC contacts		2 x M20	0.48 (1.06)	2.5 (152.56)	**U41W2H3**
3-Position Selector Switch					
3 fixed positions ' I - 0 - II ' 2NO contact		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**
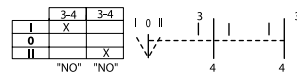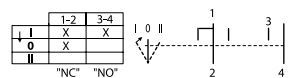
Size 2 Polyamide Control Station:
Included: 1 white self-adhesive laminated plastic nameplate, 2 x M20 bottom clearance entries, 1 blanking plug, 1 cable gland in polyamide [Ø 6.5 mm to 14.5 mm (0.26" to 0.57")], 2 locknuts.

Description/Function	Diagram	Bottom Entries	Weight kg (lb)	Volume dm³ (in³)	Catalog Number
Twin Push Button					
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**

① *12 Vac to 254 Vac 50/60 Hz - 12 Vdc to 60 Vdc.*

Unicode™ 2 Series Polyamide Control Stations

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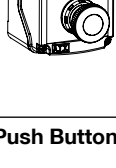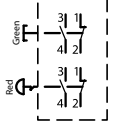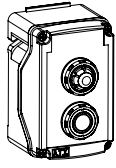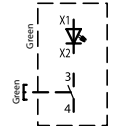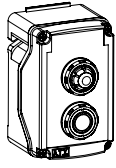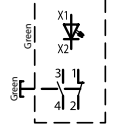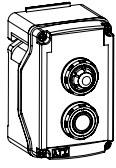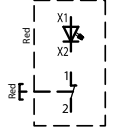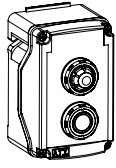
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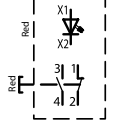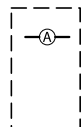*Zone 1 and 2 – 21 and 22*
⟨Ex⟩ *II 2 GD*
Ex de IIC/Ex demb IIC/Ex tD A21
IP66 – IK09

Size 2 Polyamide Control Station:
Included: 1 white self-adhesive laminated plastic nameplate, 2 x M20 bottom clearance entries, 1 blanking plug, 1 cable gland in polyamide [Ø 6.5 mm to 14.5 mm (0.26" to 0.57")], 2 locknuts.

Description/Function	Diagram	Bottom Entries	Weight kg (lb)	Volume dm³ (in³)	Catalog Number
Push Button + Push-Pull Emergency Stop					
1x green push button 'I' with 1NO momentary contact 1x red mushroom head push-pull with 1NC maintained contact		2 x M20	0.62 (1.37)	2.5 (152.56)	**U42W2A5D9**
1x green push button 'I' with 1NO + 1NC momentary contacts 1x red mushroom head push-pull with 1NO + 1NC maintained contacts		2 x M20	0.62 (1.37)	2.5 (152.56)	**U42W2A3D3**
Push Button + Push-Pull Emergency Stop					
1x green light ① 1x green push button 'I' with 1NO Momentary contact		2 x M20	0.62 (1.37)	2.5 (152.56)	**U42W2PGA5**
1x green light ① 1x green push button 'I' with 1NO + 1NC Momentary contacts		2 x M20	0.62 (1.37)	2.5 (152.56)	**U42W2PGA3**
1x red light ① 1x red push button 'O' with 1NC Momentary contact		2 x M20	0.62 (1.37)	2.5 (152.56)	**U42W2PRA9**
1x red light ① 1x red push button 'O' with 1NO + 1NC Momentary contacts		2 x M20	0.62 (1.37)	2.5 (152.56)	**U42W2PRA3**
Ammeter					
1x ammeter 48 x 48 mm, (1.89" x 1.89") 1A C.T., 3 F.L.C., with 0 - 1 - 3 scale		2 x M20	0.56 (1.23)	2.5 (152.56)	**U42W2VA13**

① *12 Vac to 254 Vac 50/60 Hz - 12 Vdc to 60 Vdc.*

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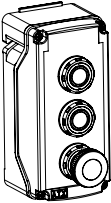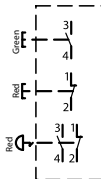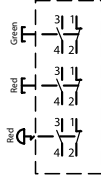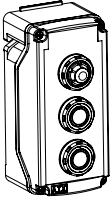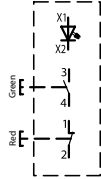
ATEX:
Zone 1 and 2 – 21 and 22
⟨Ex⟩ *II 2 GD*
Ex de IIC/Ex demb IIC/Ex tD A21
IP66 – IK09

Size 3 Polyamide Control Station:
Included: 1 white self-adhesive laminated plastic nameplate, 2 x M20 bottom clearance entries, 1 blanking plug, 1 cable gland in polyamide [Ø 6.5 mm to 14.5 mm (0.26" to 0.57")], 2 locknuts.

Description/Function	Diagram	Bottom Entries	Weight kg (lb)	Volume dm³ (in³)	Catalog Number
Twin Push Buttons + Push-Pull Emergency Stop					
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		2 x M20	0.78 (1.72)	2.5 (152.56)	**U43W2A5A9D3**
1x green push button 'I' with 1NO + 1NC 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		2 x M20	0.78 (1.72)	2.5 (152.56)	**U43W2A3A3D3**
Pilot Light + Twin Push Buttons					
1x green light ① 1x green push button 'I' with 1NO contact 1x red push button 'O' with 1NC contact Momentary contacts		2 x M20	0.78 (1.72)	2.5 (152.56)	**U43W2PGA5A9**
1x red light ① 1x green push button 'I' with 1NO contact 1x red push button 'O' with 1NO contact Momentary contacts		2 x M20	0.78 (1.72)	2.5 (152.56)	**U43W2PRA5A9**
1x green light ① 1x green push button 'I' with 1NO + 1NC contacts 1x red push button 'O' with 1NO + 1NC contacts Momentary contacts		2 x M20	0.78 (1.72)	2.5 (152.56)	**U43W2PGA3A3**
1x red light ① 1x green push button 'I' with 1NO + 1NC contacts 1x red push button 'O' with 1NO + 1NC contacts Momentary contacts		2 x M20	0.78 (1.72)	2.5 (152.56)	**U43W2PRA3A3**

① *12 Vac to 254 Vac 50/60 Hz - 12 Vdc to 60 Vdc.*

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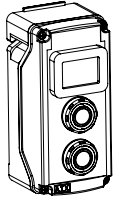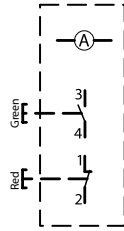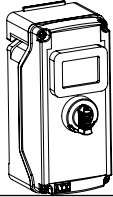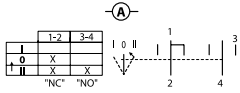*Ex de IIC/Ex demb IIC/Ex tD A21*
IP66 – IK09

Size 3 Polyamide Control Station:
Included: 1 white self-adhesive laminated plastic nameplate, 2 x M20 bottom clearance entries, 1 blanking plug, 1 cable gland in polyamide [Ø 6.5 mm to 14.5 mm (0.26" to 0.57")], 2 locknuts.

Description/Function	Diagram	Bottom Entries	Weight kg (lb)	Volume dm³ (in³)	Catalog Number
Ammeter + Twin Push Button					
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 green push button 'I' with 1NO contact 1x red push button 'O' with 1NC contact Momentary contacts		2 x M20	0.80 (1.76)	2.5 (152.56)	**U43W2VA13A5A9**
Ammeter + 3-Position Selector Switch					
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		2 x M20	0.80 (1.76)	2.5 (152.56)	**U43W2VA13M3**

Special Accessories for Polyamide Enclosure

Brass Earthing Plate for 2 x M20 Equipped with 2 earth connections		**098661**
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")		**098656**

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Unicode™ 2 Series Polyamide Control Station Accessories

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IP66 – IK09

Nameplates — Set of 10
Blank self-adhesive, laminated plastic 58 mm x 18 mm (2.29" x 0.71").

Color	Catalog Number	Pack
White (black letters)	**UNPW**	1
Yellow (black letters)	**UNPY**	1
Red (white letters)	**UNPR**	1
Blue (white letters)	**UNPB**	1
Black (white letters)	**UNPN**	1
Green (white letters)	**UNPG**	1

Inserts for Push Button — Set of 5

Marking	Color	Catalog Number	Pack
(unmarked)	Green	**UIAG**	1
(unmarked)	Red	**UIAR**	1
(unmarked)	Yellow	**UIAY**	1
(unmarked)	White	**UIAW**	1
(unmarked)	Blue	**UIAB**	1
(unmarked)	Black	**UIAN**	1
ON	Green	**UIA01**	1
OFF	Red	**UIA02**	1
START	Green	**UIA03**	1
STOP	Red	**UIA04**	1
MARCHE	Green	**UIA05**	1
ARRET	Red	**UIA06**	1
I	Green	**UIA07**	1
O	Red	**UIA08**	1

Inserts for Illuminated Push Button — Set of 5

Marking	Color	Catalog Number	Pack
(unmarked)	Green	**UILG**	1
(unmarked)	Red	**UILR**	1
(unmarked)	Yellow	**UILY**	1
(unmarked)	White	**UILW**	1
(unmarked)	Blue	**UILB**	1
ON	Green	**UIL01**	1
OFF	Red	**UIL02**	1
START	Green	**UIL03**	1
STOP	Red	**UIL04**	1
MARCHE	Green	**UIL05**	1
ARRET	Red	**UIL06**	1
I	Green	**UIL07**	1
O	Red	**UIL08**	1

Spare Key
For all key-operated buttons.

Description	Catalog Number	Pack
Spare key type 4 A 185	**SK4A185**	1

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

Small Size — 40 mm (1.57"), 19 mm (0.75"), 9 mm (0.35") — **ULPS**

Large Size — 50 mm (1.97"0, 25.3 mm (1.00"), 9 mm (0.35") — **ULPL**
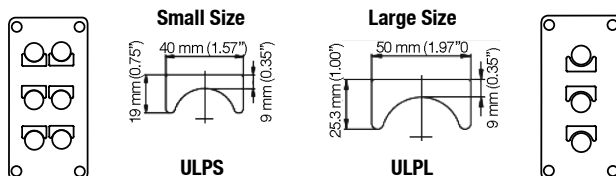
	Catalog Number		
Text	**Small**	**Large**	**Pack**
Blank (set of 10)	**ULPS**	**ULPL**	1
ON	**ULPSA01**	**ULPLA01**	1
OFF	**ULPSA02**	**ULPLA02**	1
FORWARD	**ULPSA03**	**ULPLA03**	1
REVERSE	**ULPSA04**	**ULPLA04**	1
JOG	**ULPSA05**	**ULPLA05**	1
RUN	**ULPSA06**	**ULPLA06**	1
START	**ULPSA07**	**ULPLA07**	1
STOP	**ULPSA08**	**ULPLA08**	1
UP	**ULPSA09**	**ULPLA09**	1
DOWN	**ULPSA10**	**ULPLA10**	1
FAST	**ULPSA11**	**ULPLA11**	1
SLOW	**ULPSA12**	**ULPLA12**	1
RAISE	**ULPSA13**	**ULPLA13**	1
LOWER	**ULPSA14**	**ULPLA14**	1
OPEN	**ULPSA15**	**ULPLA15**	1
CLOSE	**ULPSA16**	**ULPLA16**	1
LOW	**ULPSA17**	**ULPLA17**	1
HIGH	**ULPSA18**	**ULPLA18**	1
TEST	**ULPSA19**	**ULPLA19**	1
RESET	**ULPSA20**	**ULPLA20**	1
EMERGENCY STOP	**ULPSA21**	**ULPLA21**	1
MARCHE	**ULPSA22**	**ULPLA22**	1
ARRET	**ULPSA23**	**ULPLA23**	1
ARRET D'URGENCE	**ULPSA24**	**ULPLA24**	1
HAUT	**ULPSA25**	**ULPLA25**	1
BAS	**ULPSA26**	**ULPLA26**	1
O - I	**ULPSH01**	**ULPLH01**	1
ON - OFF	**ULPSH02**	**ULPLH02**	1
START - STOP	**ULPSH03**	**ULPLH03**	1
STOP - START	**ULPSH04**	**ULPLH04**	1
HAND - AUTO	**ULPSH05**	**ULPLH05**	1
MANU - AUTO	**ULPSH06**	**ULPLH06**	1
FORWARD - REVERSE	**ULPSH07**	**ULPLH07**	1
REMOTE - LOCAL	**ULPSH08**	**ULPLH08**	1
MARCHE - ARRET	**ULPSH09**	**ULPLH09**	1
I - O - II	**ULPSJ01**	**ULPLJ01**	1
OFF - O - ON	**ULPSJ02**	**ULPLJ02**	1
START - NORMAL - STOP	**ULPSJ03**	**ULPLJ03**	1
HAND - OFF - AUTO	**ULPSJ04**	**ULPLJ04**	1
MANU - O - AUTO	**ULPSJ05**	**ULPLJ05**	1
FORWARD - OFF - REVERSE	**ULPSJ06**	**ULPLJ06**	1
LOCAL - REMOTE - AUTO	**ULPSJ07**	**ULPLJ07**	1
LOCAL - O - REMOTE	**ULPSJ08**	**ULPLJ08**	1
MARCHE - NORMAL - ARRET	**ULPSJ09**	**ULPLJ09**	1
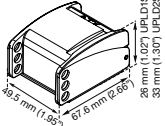
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Unicode™ 2 Series Polyamide Control Station Accessories

Increased Safety

For use in IEC governed hazardous areas. Polyamide is not recognized for use in any NEC/CEC governed hazardous areas.

ATEX:
Zone 1 and 2 – 21 and 22
⟨Ex⟩ II 2 GD
Ex de IIC/Ex demb IIC/Ex tD A21
IP66 – IK09

	Description	Catalog Number
	Additional Contacts	
	Each actuator is capable of activating 3 contacts.	
	Exception: Illuminated push button and all actuators with key: 2 contacts maximum	
	1NO contact	**UCB5R**
	1NC contact	**UCB9R**
	Yellow Guard	
	Mushroom head protection for emergency stop	**098657**
	Padlockable Guard	
	Stainless steel and plastic cover, capacity: 3 padlocks diameter 6 mm (0.24") maximum (not supplied)	
	For push button and rotary actuator	**UPLD1S**
	For mushroom head actuator	**UPLD2S**
	Cable Gland Exe	
	For unarmored cable Exe - IP66 - in polyamide entry thread seal	
	M20 (capacity 6.5-14.5 mm)	**095605**
	For armored cable Exe/Exd - IP66 - in nickel plated brass (without entry thread seal)	
	Braid and Tape type:	
	M20 (inner: 6.4-14.0/outer: 12.5-20.9 mm)	**20E1FX5**
	Single Wired Armor (SWA):	
	M20 (inner: 6.4-14.0/outer: 12.5-20.9 mm)	**20E1FW5**
	Adaptors	
	Exd/Exe - IP66 in nickel plated brass (without entry thread seal)	
	Male M20 - Female 1/2" NPT	**737DM2T15**
	Male M20 - Female 3/4" NPT	**737DM2T25**
	Entry Thread Seal	
	M20 (in white nylon)	**20ETS2**
	Combination Drain and Breather	
	Exe - IP66 - supplied with entry thread seal and locknut	
	M20 male thread in Polyamide	**DBE20P**
	M20 male thread in Brass	**DBE20B**
	M20 male thread in Stainless Steel	**DBE20S**
	Feed-Thru Earth Stud Terminal	
	Exe - IP66 – supplied with weatherproof seal and green/yellow earth conductor — 300 mm (11.81") length	
	M20 with M5 earth and 2.5 mm^2 (0.004 in^2) conductor	**PREESTM20**

Padlockable Guard dimensions: 49.5 mm (1.95"), 67.6 mm (2.66"), 26 mm (1.02") UPLD1S, 33 mm (1.30") UPLD2S

Appleton®

Unicode™ 2 Series Polyamide Control Stations

Increased Safety

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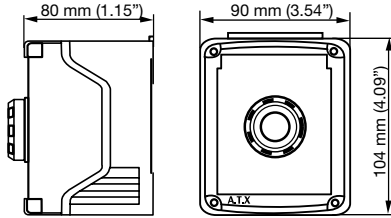
ATEX:
Zone 1 and 2 – 21 and 22
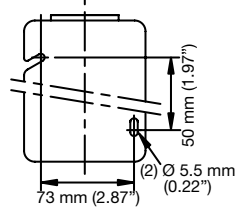*⟨Ex⟩ II 2 GD*
Ex de IIC/Ex demb IIC/Ex tD A21
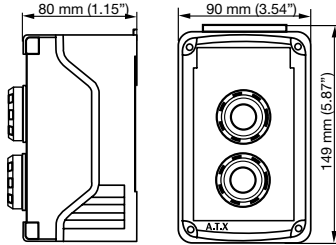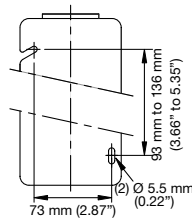*IP66 – IK09*

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Dimensions in Millimeters (Inches)
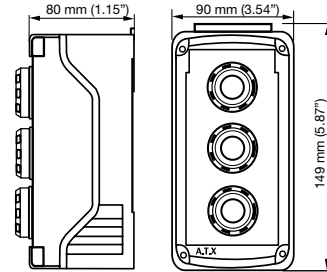
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Size 1 Enclosure

Size 1 Mounting/Fixing Details

Size 2 Enclosure

Size 2 and 3 Mounting/Fixing Details

Size 3 Enclosure

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