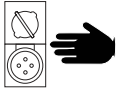

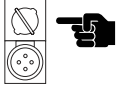

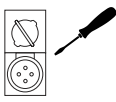

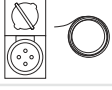

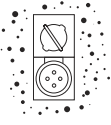

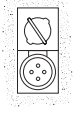

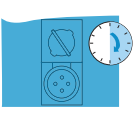
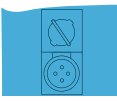


## Technical Information Common to Buffalo Industrial Range















PAGE 1 of 2

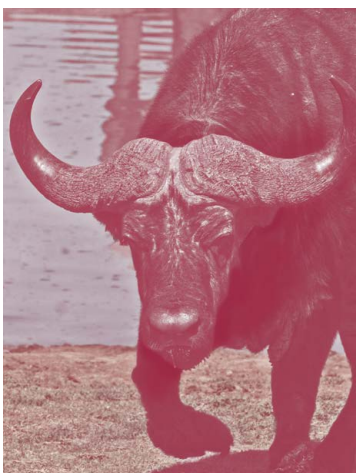
Buffalo combinations, switches and sockets are tough and robust and perform well in the dust and the wet and provide resistance to chemical attack, weather effects and are impervious to the ingress of dust and the damaging effects of water. The range offers products with a dependable protection rating of IP66 to cover many arduous applications.

### Protection Rating Reference Chart (IP Code AS 60529)

| Solids |   | Water |   |
|--------|---|-------|---|
| 1      |  Protected against a solid object greater than 50mm such as a hand   | 1     |  Protected against vertically falling drops of water. Limited ingress permitted  |
| 2      |  Protected against a solid object greater than 12.5mm such as a finger   | 2     |  Protected against vertically falling drops of water with enclosure tilted up to 15 degrees from the vertical. Limited ingress permitted |
| 3      |  Protected against a solid object greater than 2.5mm such as a screwdriver  | 3     |  Protected against sprays of water up to 60 degrees from the vertical. Limited ingress permitted for three minutes                      |
| 4      |  Protected against a solid object greater than 1mm such as a wire  | 4     |  Protected against water splashed from all directions. Limited ingress permitted   |
| 5      |  Dust Protected. Limited ingress of dust permitted. Will not interfere with operation of the equipment. Two to eight hours | 5     |  Protected against jets of water. Limited ingress permitted  |
| 6      |  Dust tight. No ingress of dust. Two to eight hours  | 6     |  Water from heavy seas or water projects in powerful jets shall not enter the enclosure in harmful quantities                          |
|        |   | 7     |  Protection against the effects of immersion in water between 15cm and 1m for 30 minutes   |
|        |   | 8     |  Protection against the effects of immersion in water under pressure for long periods  |

**Table 1** (pin configurations referenced in product charts)

|   |   |   |  |   |   |   |
|---|---|---|--|---|---|---|
|  A 10A 250V~ |  B 15A 250V~ |  C 20A 500V~ |  D 32A 500V~ |  E 10A 500V~ |  F 20A 500V~ |  G 32A 500V~ |
|  H 40A 500V~ |  I 50A 500V~ |  J 10A 500V~ |  K 20A 500V~ |  L 32A 500V~ |  M 40A 500V~ |  N 50A 500V~ |



## Technical Information Common to Buffalo Industrial Range

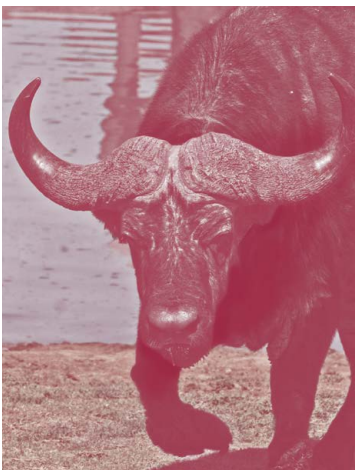
PAGE 2 of 2

### Buffalo Chemical Resistance Chart

At Trader we have tried to simplify the chemical resistant solution with our Buffalo offer. Instead of offering different levels of protection and solutions as others in the market, we have raised the performance standard product to perform in a wider range of environments. Our offer is made to the same chemical resistant standard of our grey, orange and transparent mouldings. Along with all fixing screws, springs and pins exposed to the elements being produced from 304 grade stainless steel.

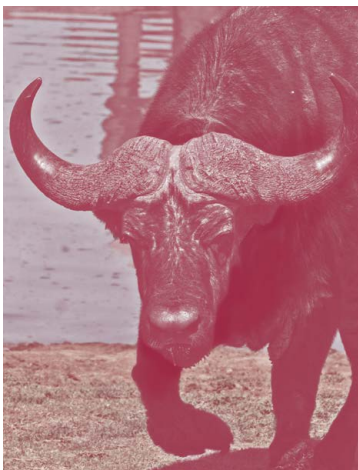
Trader has selected materials for these industrial products that should be able to stand up to the majority of environments likely to be encountered. Research and development with leading material suppliers have enabled us to identify materials that perform in harsh environments where they will be subject to chemicals, impact and weather. The Buffalo range out performs other standard industrial products in a broad range of environments when exposed to hydrocarbons such as petrol and oils, alkalis and a range of solvents. Please review the chemical performance chart for more detail and contact us with any queries.

| Product Type                     |                                     | Enclosures (E1, ES1, E2 & ES2) | Housings for Switches, Sockets & Plugs, as well as exposed expects such as flaps & switch knobs |
|----------------------------------|-------------------------------------|--------------------------------|---|
| Product Colour                   |                                     | Grey                           | Grey, Orange & Transparent  |
| <b>Acids</b>                     |                                     |                                |   |
| Weak Solutions                   | Hydrochloric 10%                    | Excellent                      | Excellent   |
|                                  | Nitric 10%                          | Excellent                      | Excellent   |
| Concentrate                      | Sulphuric 100%                      | Excellent                      | Poor  |
| <b>Alkalis</b>                   |                                     |                                |   |
| Weak Solutions                   | Sodium Hydroxide 10% (Caustic Soda) | Excellent                      | Good  |
| Concentrate                      | Potassium Hydroxide 100%            | Excellent - Good               | Poor  |
| <b>Automotive</b>                |                                     |                                |   |
|                                  | Petroleum                           | Excellent                      | Excellent   |
|                                  | Lubrication Oils                    | Excellent                      | Excellent   |
|                                  | Hydraulic Oil                       | Excellent                      | Excellent   |
| <b>Solvents</b>                  |                                     |                                |   |
| Aliphatic Hydrocarbons (Alkanes) | Methane                             | Good                           | Excellent   |
|                                  | Propane                             | Excellent                      | Excellent   |
| Alcohols                         | Ethylene Glycol                     | Excellent                      | Excellent   |
|                                  | Glycerol (Glycerin)                 | Excellent                      | Good  |
|                                  | Methyl Alcohol (Methanol)           | Excellent                      | Good  |
|                                  | Ethyl Alcohol (Ethanol)             | Excellent                      | Excellent   |
| Amines                           | Aniline                             | Poor                           | Poor  |
| Aromatic Hydrocarbons            | Methyl Benzene                      | Poor                           | Good  |
|                                  | Xylene                              | Poor                           | Good  |
| Ethers                           | Dimethyl Ethyl                      | Excellent                      | Excellent   |
| Ketones                          | Acetone                             | Excellent                      | Poor  |
|                                  | Acetophenone                        | Poor                           | Poor  |
|                                  | Ethyl Methyl Ketone                 | Poor                           | Poor  |
| <b>Miscellaneous</b>             |                                     |                                |   |
|                                  | Detergent                           | Excellent                      | Excellent   |
| Inorganic Salts                  | Magensium Sulphate                  | Excellent                      | Excellent   |
| <b>Oxidising Agents</b>          |                                     |                                |   |
| Weak Solution                    | Sodium Hypochlorite 5%              | Excellent                      | Excellent   |
| Strong Solution                  | Hydrogen Peroxide 30%               | Excellent                      | Excellent   |
| <b>Water</b>                     |                                     |                                |   |
|                                  | Ambient                             | Excellent                      | Excellent   |
|                                  | Heated >60°C                        | Fair                           | Good  |
|                                  | Steam                               | Poor                           | Poor  |



**BUC310**  
**BUC315**  
**BUC320**  
**BUC332**  
**BUC410**  
**BUC420**  
**BUC432**  
**BUC440**  
**BUC450**  
**BUC510**  
**BUC520**  
**BUC532**  
**BUC540**  
**BUC550**

**BUC310LE**  
**BUC315LE**  
**BUC320LE**  
**BUC332LE**  
**BUC410LE**  
**BUC420LE**  
**BUC432LE**  
**BUC440LE**  
**BUC450LE**  
**BUC510LE**  
**BUC520LE**  
**BUC532LE**  
**BUC540LE**  
**BUC550LE**



## Modular Combinations

Buffalo offers an extensive range of modular combinations that adapt readily to almost any situation, three pin up to 32A, four and five pin up to 50A.

Phase links are factory fitted in all cases (Installers should check that no terminals have loosened off in transport). The terminal sizes are generous to allow easy connection of the conductors. See the table for product detail.



| General Information |         |                |            |                           |           | Switch Data     |                 |                 |          |   |   | Socket Data                               |   | Plug Data     |
|---------------------|---------|----------------|------------|---------------------------|-----------|-----------------|-----------------|-----------------|----------|---|---|---|---|---------------|
| Pin & Volt          | Cat No. | Current Rating | Pin Config | Pin Config Code (Table 1) | Enclosure | AC21 Rating (A) | AC22 Rating (A) | AC23 Rating (A) | M Rating | Minimum Conductor Size (mm <sup>2</sup> ) | Maximum Conductor Size (mm <sup>2</sup> ) | Minimum Conductor Size (mm <sup>2</sup> ) | Maximum Conductor Size (mm <sup>2</sup> ) | Matching Plug |
| 3 Pin<br>250V~      | BUC310  | 10             | 3 Flat     | A                         | ES2       | 10              | 10              | 8               | M80      | 1.5                                       | 6   | 1.5                                       | 6   | BUP310        |
|                     | BUC315  | 15             | 3 Flat     | B                         | ES2       | 15              | 15              | 8               | M80      | 1.5                                       | 6   | 1.5                                       | 6   | BUP315        |
| 3 Pin<br>500V~      | BUC320  | 20             | 3 Round    | C                         | E2        | 20              | 20              | 20              | M150     | 6   | 16  | 2.5                                       | 6   | BUP320        |
|                     | BUC332  | 32             | 3 Round    | D                         | E2        | 32              | 32              | 28              | M180     | 6   | 16  | 6   | 16  | BUP332        |
| 4 Pin<br>500V~      | BUC410  | 10             | 4 Round    | E                         | E2        | 10              | 10              | 10              | M100     | 6   | 16  | 1.5                                       | 6   | BUP410        |
|                     | BUC420  | 20             | 4 Round    | F                         | E2        | 20              | 20              | 20              | M150     | 6   | 16  | 1.5                                       | 6   | BUP420        |
|                     | BUC432  | 32             | 4 Round    | G                         | E2        | 32              | 32              | 28              | M180     | 6   | 16  | 2.5                                       | 6   | BUP432        |
|                     | BUC440  | 40             | 4 Round    | H                         | E2        | 40              | 40              | 35              | M200     | 10  | 25  | 6   | 16  |               |
|                     | BUC450  | 50             | 4 Round    | I                         | E2        | 50              | 50              | 25              | M250     | 10  | 25  | 10  | 16  |               |
| 5 Pin<br>500V~      | BUC510  | 10             | 5 Round    | J                         | E2        | 10              | 10              | 10              | M100     | 6   | 16  | 1.5                                       | 6   | BUP510        |
|                     | BUC520  | 20             | 5 Round    | K                         | E2        | 20              | 20              | 20              | M150     | 6   | 16  | 1.5                                       | 6   | BUP520        |
|                     | BUC532  | 32             | 5 Round    | L                         | E2        | 32              | 32              | 28              | M180     | 6   | 16  | 2.5                                       | 6   | BUP532        |
|                     | BUC540  | 40             | 5 Round    | M                         | E2        | 40              | 40              | 35              | M200     | 10  | 25  | 6   | 16  |               |
|                     | BUC550  | 50             | 5 Round    | N                         | E2        | 50              | 50              | 25              | M250     | 10  | 25  | 10  | 16  |               |

When ordering LESS ENCLOSURE add "LE" to end of catalogue number, ie "BUC310LE"

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**BUSW110**  
**BUSW120**  
**BUSW132**  
**BUSW220**  
**BUSW310**  
**BUSW320**  
**BUSW332**  
**BUSW350**  
**BUSW363**

**BUSW110LE**  
**BUSW120LE**  
**BUSW132LE**  
**BUSW220LE**  
**BUSW310LE**  
**BUSW320LE**  
**BUSW332LE**  
**BUSW350LE**  
**BUSW363LE**

## Heavy Duty Switches

The same heavy duty switches used in our Combinations are available as individual switches for isolation and control applications.

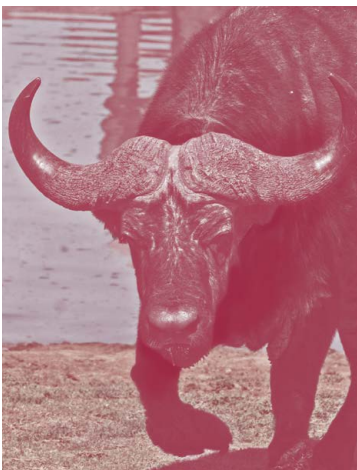
They have generous terminal sizes, have a large, easy to use knob, suitable for use with heavy industrial gloves, and a positive, rotary action. They feature an eight millimetre lock off facility.

The range includes Single, Double, and Three Pole, in amperages from 10A up to 63A. See the table for product detail.



| Pole & Volt       | Cat No. | Current Rating (Nominal) (A) | AC21 Rating (A) | AC22 Rating (A) | AC23 Rating (A) | M Rating | Minimum Conductor Size (mm <sup>2</sup> ) | Maximum Conductor Size (mm <sup>2</sup> ) |
|-------------------|---------|------------------------------|-----------------|-----------------|-----------------|----------|---|---|
| Single Pole 250V~ | BUSW110 | 10                           | 10              | 10              | 8               | M80      | 1.5                                       | 6   |
|                   | BUSW120 | 20                           | 20              | 15              | 8               | M150     | 2.5                                       | 16  |
|                   | BUSW132 | 32                           | 32              | 20              | 28              | M180     | 6   | 16  |
| 2 Pole 500V~      | BUSW220 | 20                           | 20              | 32              | 28              | M150     | 2.5                                       | 16  |
| 3 Pole 500V~      | BUSW310 | 10                           | 10              | 10              | 10              | M100     | 2.5                                       | 16  |
|                   | BUSW320 | 20                           | 20              | 20              | 20              | M150     | 2.5                                       | 16  |
|                   | BUSW332 | 32                           | 32              | 28              | 28              | M180     | 6   | 16  |
|                   | BUSW350 | 50                           | 50              | 25              | 35              | M250     | 10  | 25  |
|                   | BUSW363 | 63                           | 63              | 25              | 25              | M300     | 10  | 25  |

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**BUPP310**  
**BUPP315**  
**BUPP320**  
**BUPP332**  
**BUPP410**  
**BUPP420**  
**BUPP432**  
**BUPP510**  
**BUPP520**  
**BUPP532**

**BUPP310LE**  
**BUPP315LE**  
**BUPP320LE**  
**BUPP332LE**  
**BUPP410LE**  
**BUPP420LE**  
**BUPP432LE**  
**BUPP510LE**  
**BUPP520LE**  
**BUPP532LE**

## Heavy Duty Sockets

The Socket components used in our Combinations are also available as individual Socket Outlets for use in relevant applications.

They are robust and easy to use, and have a one piece transparent flap to seal out dust and moisture when not in use.

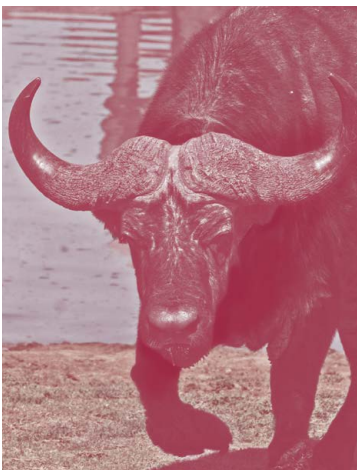
This self latching one piece design removes a possible failure point and opportunities for dust and grime to collect.

The range includes three, four, and five pin products in amperages from 10A up to 50A. See the table for product detail.



| Pin & Volt  | Cat No. | Current Rating (A) | Pin Config | Pin Config Code (Table 1) | Enclosure | Minimum Conductor Size (mm <sup>2</sup> ) | Maximum Conductor Size (mm <sup>2</sup> ) | Matching Plug      |
|-------------|---------|--------------------|------------|---------------------------|-----------|---|---|--------------------|
| 3 Pin 250V~ | BUPP310 | 10                 | 3 Flat     | A                         | ES1       | 1.5                                       | 6   | BUP310OR           |
|             | BUPP315 | 15                 | 3 Flat     | B                         | ES1       | 1.5                                       | 6   | BUP315OR           |
| 3 Pin 500V~ | BUPP320 | 20                 | 3 Round    | C                         | E1        | 2.5                                       | 6   | BUP320OR/BUPA320OR |
|             | BUPP332 | 32                 | 3 Round    | D                         | E1        | 6   | 16  | BUP332OR/BUPA332OR |
| 4 Pin 500V~ | BUPP410 | 10                 | 4 Round    | E                         | E1        | 1.5                                       | 6   | BUP410OR/BUPA410OR |
|             | BUPP420 | 20                 | 4 Round    | F                         | E1        | 1.5                                       | 6   | BUP420OR/BUPA420OR |
|             | BUPP432 | 32                 | 4 Round    | G                         | E1        | 2.5                                       | 6   | BUP432OR/BUPA432OR |
| 5 Pin 500V~ | BUPP510 | 10                 | 5 Round    | J                         | E1        | 1.5                                       | 6   | BUP510OR/BUPA510OR |
|             | BUPP520 | 20                 | 5 Round    | K                         | E1        | 1.5                                       | 6   | BUP520OR/BUPA520OR |
|             | BUPP532 | 32                 | 5 Round    | L                         | E1        | 2.5                                       | 6   | BUP532OR/BUPA532OR |

When ordering LESS ENCLOSURE add "LE" to end of catalogue number, ie "BUPP310LE"



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**BUEXPP410OR**  
**BUEXPP420OR**  
**BUEXPP432OR**  
**BUEXPP510OR**  
**BUEXPP520OR**  
**BUEXPP532OR**

## Extension Sockets

Buffalo offers a range of Industrial Extension Sockets in four and five pins from 10A to 32A.

They are made from the same Chemical Resistant material used throughout the Buffalo Range, including the transparent sections that allow confirmation of correct wiring and assist with fault finding.

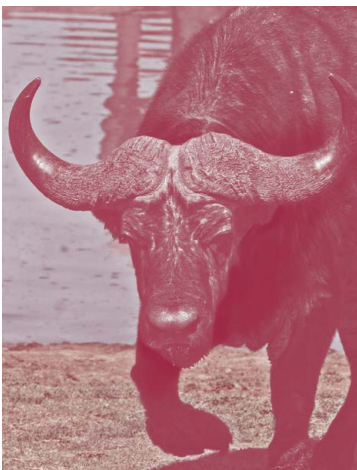


All socket variants have generous terminal sizes and provision for cable entry by gland or terminator. See the table for product detail.

| Pin & Volt  | Cat No. Extension Sockets | Current Rating (A) | Pin Config | Pin Config Code (Table 1) | Terminal Size (mm dia) | Maximum Conductor Size (mm <sup>2</sup> ) | Minimum Cable (mm <sup>2</sup> ) | Maximum Cable Diameter (mm) | Gland Nut Thread (mm) | Matching Plug   |
|-------------|---------------------------|--------------------|------------|---------------------------|------------------------|---|----------------------------------|-----------------------------|-----------------------|-----------------|
| 4 Pin 500V~ | BUEXPP410OR               | 10                 | 4 Round    | E                         | 4.1                    | 10  | 7                                | 16                          | M25 x 1.5             | BUP410/ BUPA410 |
|             | BUEXPP420OR               | 20                 | 4 Round    | F                         | 4.1                    | 10  | 7                                | 16                          | M25 x 1.5             | BUP420/ BUPA420 |
|             | BUEXPP432OR               | 32                 | 4 Round    | G                         | 4.1                    | 10  | 9                                | 28                          | M32 x 1.5             | BUP432/ BUPA432 |
| 5 Pin 500V~ | BUEXPP510OR               | 10                 | 5 Round    | J                         | 4.1                    | 10  | 7                                | 16                          | M25 x 1.5             | BUP510/ BUPA510 |
|             | BUEXPP520OR               | 20                 | 5 Round    | K                         | 4.1                    | 10  | 7                                | 16                          | M25 x 1.5             | BUP520/ BUPA520 |
|             | BUEXPP532OR               | 32                 | 5 Round    | L                         | 4.1                    | 10  | 9                                | 28                          | M32 x 1.5             | BUP532/ BUPA532 |

All products accept a locking ring which prevents accidental removal and assists with maintaining the highest IP Rating and a spring loaded flap that seals out dust and moisture when not in use.

Compatible with common pendant outlet kits.



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**Straight Plug**

- BUP310OR**
- BUP315OR**
- BUP320OR**
- BUP332OR**
- BUP410OR**
- BUP420OR**
- BUP432OR**
- BUP510OR**
- BUP520OR**
- BUP532OR**

**Angle Plug**

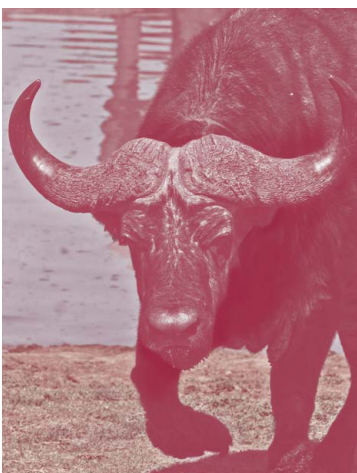
- BUPA310OR**
- BUPA315OR**
- BUPA320OR**
- BUPA332OR**
- BUPA410OR**
- BUPA420OR**
- BUPA432OR**
- BUPA510OR**
- BUPA520OR**
- BUPA532OR**

## Straight & Angled Plugs

Buffalo offers an extensive range of Industrial Plugs, three pin up to 32A, and four and five pins up to 50A. Angled Plugs are also available in ratings other than 3 pin 10A and 15A. See the table for product detail.



| Pin & Volt  | Cat No. Straight Plug | Cat No. Angle Plug | Current Rating (A) | Pin Config | Pin Config Code (Table 1) | Terminal Size (mm dia) | Maximum Conductor Size (mm <sup>2</sup> ) | Minimum Cable Diameter (mm <sup>2</sup> ) | Maximum Cable Diameter (mm <sup>2</sup> ) | Gland Nut Thread (mm) | Matching Socket/Combination |
|-------------|-----------------------|--------------------|--------------------|------------|---------------------------|------------------------|---|---|---|-----------------------|-----------------------------|
| 3 Pin 250V~ | BUP310OR              | BUPA310OR          | 10                 | 3 Flat     | A                         | clamp type             | 2.5                                       | 7   | 12.5                                      | M20 x 1.5             | BUPP310/BUC310              |
|             | BUP315OR              | BUPA315OR          | 15                 | 3 Flat     | B                         | clamp type             | 2.5                                       | 7   | 12.5                                      | M20 x 1.5             | BUPP315/BUC315              |
| 3 Pin 500V~ | BUP320OR              | BUPA320OR          | 20                 | 3 Round    | C                         | 4.1                    | 10  | 7   | 16  | M25 x 1.5             | BUPP320/BUC320              |
|             | BUP332OR              | BUPA332OR          | 32                 | 3 Round    | D                         | 4.1                    | 10  | 7   | 16  | M25 x 1.5             | BUPP332/BUC332              |
| 4 Pin 500V~ | BUP410OR              | BUPA410OR          | 10                 | 4 Round    | E                         | 4.1                    | 10  | 7   | 16  | M25 x 1.5             | BUPP410/BUC410              |
|             | BUP420OR              | BUPA420OR          | 20                 | 4 Round    | F                         | 4.1                    | 10  | 7   | 16  | M25 x 1.5             | BUPP420/BUC420              |
|             | BUP432OR              | BUPA432OR          | 32                 | 4 Round    | G                         | 4.1                    | 10  | 9   | 28  | M32 x 1.5             | BUPP432/BUC332              |
| 5 Pin 500V~ | BUP510OR              | BUPA510OR          | 10                 | 5 Round    | J                         | 4.1                    | 10  | 7   | 16  | M25 x 1.5             | BUPP510/BUC510              |
|             | BUP520OR              | BUPA520OR          | 20                 | 5 Round    | K                         | 4.1                    | 10  | 7   | 16  | M25 x 1.5             | BUPP520/BUC520              |
|             | BUP532OR              | BUPA532OR          | 32                 | 5 Round    | L                         | 4.1                    | 10  | 9   | 28  | M32 x 1.5             | BUPP532/ BUC532             |



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Data Specification Sheet  
November 2017

## BU4DIN

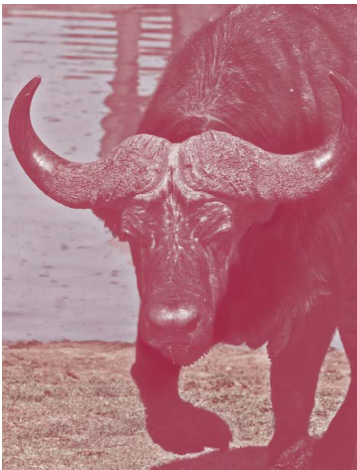
## Din Enclosure IP66

DIN Rail Accessory Mounting Enclosure provides a facility to mount up to 4 poles of equipment such as MCB's and RCDs - external to a switchboard in an environment needing a high level of protection.

As with all Buffalo products, it is manufactured from robust, chemical resistant material to provide a long reliable life in the dust and wet.



| Cat No. | Description          | Poles | Enclosure Included | Conduit Entries |
|---------|----------------------|-------|--------------------|-----------------|
| BU4DIN  | Enclosure Din 4 Pole | 4     | BUBB2G             | 3 x 25mm        |





- BUBB1G**
- BUBBS1G**
- BUBB2G**
- BUBBS2G**
- BUBB3G**
- BUBB4G**

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## Enclosures

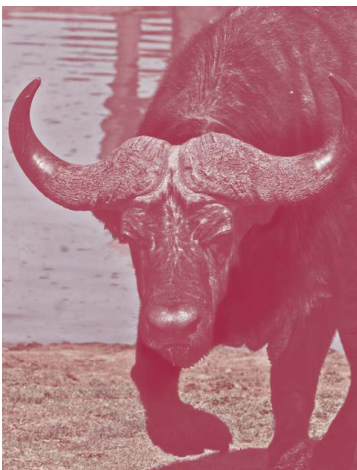
The enclosures included with the Buffalo products (Modular Combinations, Heavy Duty Switches, Heavy Duty Sockets and Din Enclosures) have threaded entries top and bottom. In standard enclosures there are 3 x M25 entries. In shallow enclosures, used for single phase 10A and 15A products, there is a single M25 one end and 2 x M20 at the alternate end. They come complete with plugs for all entries, a parts pack with cover screw caps, along with caps for mounting screws, and 2 x 25/20 threaded reducers. Multi-gang enclosures come standard with bridges to support and seal against the gaskets and modules.

Mounting Enclosures (also known as Back Boxes) are also available as individual items manufactured from UV Stabilised PVC to ensure effective solvent bonding with industry standard conduit fittings. These also come with the parts packs and bridges.

All cover mounting screw bosses have brass inserts for long life & reliability.



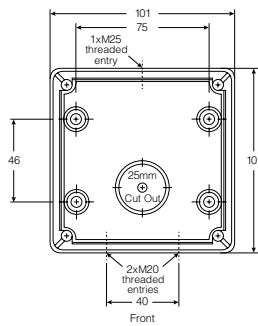
| Description                       | Cat No. | Height (mm) | Width (mm) | Length (mm) | Conduit Entries | Chemical Resistant |
|-----------------------------------|---------|-------------|------------|-------------|-----------------|--------------------|
| Enclosure Back Box 1 Gang         | BUBB1G  | 63          | 101        | 101         | 3x25            | Yes                |
| Enclosure Back Box Shallow 1 Gang | BUBBS1G | 38          | 101        | 101         | 1x25, 2x20      | Yes                |
| Enclosure Back Box 2 Gang         | BUBB2G  | 63          | 101        | 198         | 3x25            | Yes                |
| Enclosure Back Box Shallow 2 Gang | BUBBS2G | 38          | 101        | 198         | 1x15, 2x20      | Yes                |
| Enclosure Back Box 3 Gang         | BUBB3G  | 63          | 101        | 298         | 3x25            | Yes                |
| Enclosure Back Box 4 Gang         | BUBB4G  | 63          | 198        | 198         | 4x25            | Yes                |



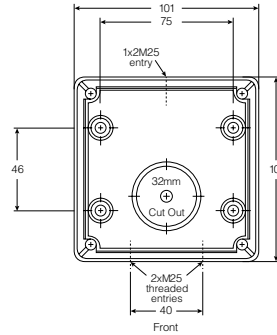
**BUBB1G**  
**BUBBS1G**  
**BUBB2G**  
**BUBBS2G**  
**BUBB3G**  
**BUBB4G**

PAGE 2 of 2

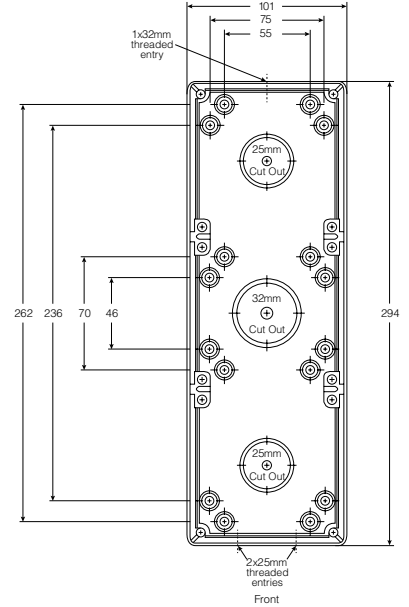
## Enclosure Dimensions



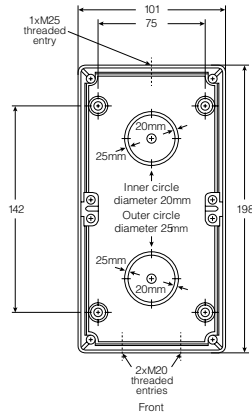
Enclosure Back Box Shallow 1 Gang  
Depth 38mm



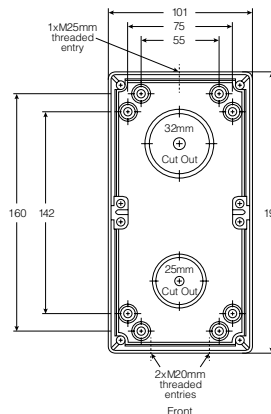
Enclosure Back Box 1 Gang  
Depth 63mm



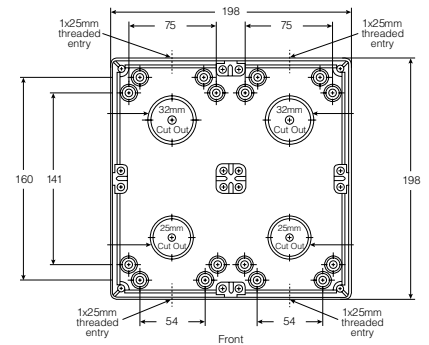
Enclosure Back Box 3 Gang  
Depth 63mm



Enclosure Back Box Shallow 2 Gang  
Depth 38mm



Enclosure Back Box 2 Gang  
Depth 63mm



Enclosure Back Box 4 Gang  
Depth 63mm

