

Technical Information Common to Buffalo Industrial Range

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Cleaning Guide:

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Protection Rating Reference Chart (IP Code AS 60529)

IP stands for Ingress Protection and is formed with two numbers: IPXX. The two numbers refer to two levels of protection.

IPXX

The first digit shows the level of protection against **solid** objects.
The second digit shows the level of protection against **liquids**

Solids

1		Protected against a solid object greater than 50mm such as a hand
2		Protected against a solid object greater than 12.5mm such as a finger
3		Protected against a solid object greater than 2.5mm such as a screwdriver
4		Protected against a solid object greater than 1mm such as a wire
5		Dust Protected. Limited ingress of dust permitted. Will not interfere with operation of the equipment. Two to eight hours
6		Dust tight. No ingress of dust. Two to eight hours

Liquids

1		Protected against vertically falling drops of water. Limited ingress permitted
2		Protected against vertically falling drops of water with enclosure tilted up to 15 degrees from the vertical. Limited ingress permitted
3		Protected against sprays of water up to 60 degrees from the vertical. Limited ingress permitted for three minutes
4		Protected against water splashed from all directions. Limited ingress permitted
5		Protected against jets of water. Limited ingress permitted
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
9		Protection against close-range high pressure, high temperature (85°C) water jets (MAX 10 000 kPa)

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Unique keyways, Pin sizes and Plug body sizes in alignment with AS/NZS3123 are provided to differentiate between current ratings in Size 1 & Size 2 products to prevent larger capacity loads being plugged into smaller capacity plugs.

Product designs are compliant in accordance with AS/NZS3112 and AS/NZS3123 (Plugs, Socket-outlets and Couplers for general industrial applications).

Table 1 (pin configurations referenced in product charts)

Sockets

						
A 10A 250V~ 3 Pin	B 15A 250V~ 3 Pin	C 10A 250V~ 3 Pin	D 15A 32V~ Polarised 2 Pin	E 20A 250V~ 3 Pin	F 10A 250V~ 3 Pin	G 20A 250V~ 3 Pin
						
H 32A 250V~ 3 Pin	I 10A 500V~ 4 Pin	J 20A 500V~ 4 Pin	K 32A 500V~ 4 Pin	L 40A 500V~ 4 Pin	M 50A 500V~ 4 Pin	N 10A 500V~ 5 Pin
						
O 20A 500V~ 5 Pin	P 32A 500V~ 5 Pin	Q 40A 500V~ 5 Pin	R 50A 500V~ 5 Pin	S3 500V~ IEC 4 Pin Earth at 3	S6 500V~ IEC 4 Pin Earth at 6	

Temperature Performance

To cover the many varied installations/environments, the Buffalo range has been thoroughly tested and is expected to perform from temperatures down to -25°C below zero and up to 75°C. This includes the standard grey sockets, switches, combinations, and appliance inlets, along with the transparent and orange plugs.

Temperatures:

Minimum -25°C below zero

Maximum 75°C

Applications where the product is used outside of these limits may void warranty and prior to any installation TRADER reps. should be consulted.

Other Chemical resistant product range products may vary in these performance limits.

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Do not use harsh chemical cleaners as these can break down the plastic and cause it to crack.

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Excellent	Recommended no adverse effects after extended exposure
Good	Acceptable with minimal mechanical property loss from extended exposure
Fair	Loss of mechanical property from extended exposure
Not Suitable	Not recommended for use due to poor performance and significant mechanical property loss

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Buffalo Chemical Resistance Chart

At Trader we have reconfigured the Buffalo range to align with common industry practices for the application of the grey polycarbonate front covers for switches, sockets and appliance inlets with PVC back boxes to mount various applications.

Additionally plugs and extension sockets are supplied in combined transparent and orange polycarbonate materials, with transparent sections specifically provided to enable simplified viewing of internal cable connections or pin arrangements. Cord entries on both plugs & extension sockets are made with durable nylon options. Now Resistant Orange, White and Grey have been included to suit other environmental conditions.

All fixing screws, springs and pins exposed to the elements being produced from 304 grade stainless steel help to provide long term weather-ability and performance in many environments.

The Buffalo range is on par with many industrial products in the market and plugs and sockets are fully interchangeable

and will perform in a broad range of environment. Please review the chemical performance chart for more detail and contact us with any queries.

Product Type		Enclosures (Back boxes) (PVC)	Housings for Switches, Sockets, Plugs and Appliance Inlets, as well as exposed aspects such as flaps, knobs, lock rings and latches (Polycarbonate)		
Product Colour		Grey	Grey, Transparent and Orange (plugs)	Chemical Orange/White	Chemical Grey
Acids					
Weak Solutions	Hydrochloric 10%	Excellent	Excellent	Excellent	Excellent
	Nitric 10%	Excellent	Excellent	Excellent	Excellent
Concentrate	Sulphuric 100%	Excellent	Not Suitable	Not Suitable	Not Suitable
Alkalis					
Weak Solutions	Sodium Hydroxide 10% (Caustic Soda)	Excellent	Not Suitable	Good	Excellent
Concentrate	Potassium Hydroxide 100%	Excellent	Good	Not Suitable	Excellent
Automotive					
	Petroleum	Excellent	Not Suitable	Excellent	Not Suitable
	Lubrication Oils	Excellent	Not Suitable	Excellent	Fair
	Hydraulic Oil	Excellent	Not Suitable	Excellent	Fair
Solvents					
Aliphatic	Methane	Good	Excellent	Excellent	Not Suitable
Hydrocarbons (Alkanes)	Propane	Excellent	Excellent	Excellent	Not Suitable
Alcohols	Ethylene Glycol	Excellent	Excellent	Excellent	Not Suitable
	Glycerol (Glycerin)	Excellent	Fair	Good	Excellent
	Methyl Alcohol (Methanol)	Excellent	Not Suitable	Good	Not Suitable
	Ethyl Alcohol (Ethanol)	Excellent	Excellent	Excellent	Not Suitable
Amines	Aniline	Not Suitable	Not Suitable	Not Suitable	Not Suitable
Aromatic	Methylbenzene	Not Suitable	Not Suitable	Good	Fair
Hydrocarbons	Xylene	Not Suitable	Not Suitable	Good	Fair
Ethers	Dimethyl Ethyl	Excellent	Excellent	Excellent	Not Suitable
Ketones	Acetone	Excellent	Not Suitable	Fair	Not Suitable
	Acetophenone	Not Suitable	Not Suitable	Fair	Not Suitable
	Ethyl Methyl Ketone	Not Suitable	Not Suitable	Fair	Not Suitable
Miscellaneous					
	Detergent	Excellent	Excellent	Excellent	
Inorganic Salts	Magnesium Sulphate	Excellent	Excellent	Excellent	Not Suitable
Oxidising Agents					
Weak Solution	Sodium Hypochlorite 5%	Excellent	Excellent	Excellent	Excellent
Strong Solution	Hydrogen Peroxide 30%	Excellent	Excellent	Excellent	Excellent
Water					
	Ambient	Excellent	Excellent	Excellent	Excellent
	Heated > 60°C	Fair	Excellent	Good	Fair
	Steam	Not Suitable	Not Suitable	Not Suitable	Not Suitable

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Product Selection			Below details are given as examples and other environmental factors may influence the product selection			Recommended Range		
Application	Environment					Preferred	Good	Fair
	Indoor or Outdoor	Temperature	UV level	Impact	Exposure to chemicals and moisture from activities			
Maintenance / machining workshop	Indoors	Ambient air temperature	Low UV levels	Possible impacts	Limited exposure to cutting fluids, oils, no or minimal exposure to rain.			
Plant rooms	Indoors	0 °C to 40 °C	Low UV levels	Possible impacts	Possible moisture/condensation, no or limited chemicals or detergent exposure.			
Automotive workshop	Indoors	Ambient air temperature	Low to high UV levels	Possible impacts from handling equipment.	Automotive fumes or chemicals.			
Warehouse	Indoors	Ambient air temperature	Low UV levels	Possible impacts from handling equipment	No or minimal exposure to rain.			
Despatch or vehicle loading or transport area	Indoors or outdoors	Ambient air temperature	Low to high UV levels	Possible impacts from handling equipment.	Potential high exposure to rain.			
Cool room for perishable storage	Indoors	-10 °C to 15 °C	Low UV levels		Possible moisture or condensation, no or minimal chemicals or detergent exposure, minimal exposure to rain.			
Conveyor belt materials handling	Indoors or outdoors	Ambient air temperature	Low to high UV levels	May be exposed to impacts.	no to high exposure to rain.			
Assembly plant or fabrication area	Indoors	Ambient air temperature	Low UV levels	Possible impacts from handling equipment	No exposure to rain.			
Minerals processing or Furnaces	Indoors	0 °C to 75 °C	Low UV levels	Possible heavy impacts from handling equipment.	No or minimal exposure to moisture.			
Rooftop plant equipment platforms	Outdoors	Ambient air temperature -15 °C to 75 °C	High UV	Possible impacts from handling equipment.	Direct exposure to rain.			
Public car parks	Indoors or outdoors	Ambient air temperature	Low to high UV levels,	May be prone to vandalism.	None or high exposure to rain, if indoors may be affected by fumes (needs consideration).			
Car and Boat washdown	Outdoors	Ambient air temperature -15 °C to 75 °C	High UV,	May be exposed to impacts.	Direct exposure to rain, exposure to salt water or petrol fumes.			
Outdoor storage tanks or industrial ponds or silos	Outdoors	Ambient air temperature -15 °C to 75 °C	High UV,		Possible exposure to acidic chemicals or chlorine, direct exposure to rain.			
Swimming pool or aquaculture ponds	Indoors/ outdoors	Ambient air temperature -10 °C to 50 °C	Low to high UV levels	Possible impacts from handling equipment may be prone to vandalism	Possible exposure to rain, presence of chlorine.			

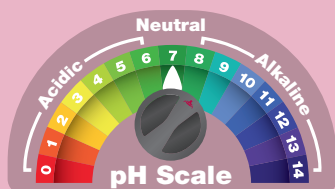


Product Selection					Below details are given as examples and other environmental factors may influence the product selection	Recommended Range		
Application	Environment					Preferred	Good	Fair
	Indoor or Outdoor	Temperature	UV level	Impact	Exposure to chemicals and moisture from activities			
Food processing, boning rooms or meat processing. Where large scale alkali cleaning occurs.	Indoors	5 °C to 25 °C	Low UV levels	Possible impacts	Alkali's washdown area foaming alkaline cleaners, 75 °C high pressure cleaners, prone to condensation.			
Detergent washdown (fast food preparation)	Indoors	5 °C to 25 °C	Low UV levels	Low level impact	Mild detergents or mild household cleaners, washdown with water, prone to condensation.			
Acids or citrus based cleaners (wineries, breweries, coal wash plant)	Indoors or outdoors	Ambient temperature of -5 °C to 70 °C	Low to high UV levels	Possible impacts from handling equipment	Acidic chemicals or products, possible exposure to citrus cleaners, washdown with water, no to high exposure to rain or water. No alkaline chemicals or cleaning agents.			
Bottle or vat sterilising	Indoors	5 °C to 40 °C	Low UV levels	Low level impact	Exposure to detergents or sterilising agents, washdown with water, prone to condensation.			
Exposure to cooking Oil (chip friers etc.)	Indoors	5 °C to 40 °C	Low UV levels	Low level impact	Exposure to cooking oils, exposure to detergents or alkali cleaners, washdown with water, prone to condensation. No acid based cleaning agents.			
Bottling plant	Indoors	Ambient air temperature	Low UV levels	Possible impacts from handling equipment.	No or minimal exposure to rain.			
Food preparation area or kitchen	Indoors	5 °C to 25 °C	Low UV levels	Low level impact	Mild detergents, citrus based or household cleaners, washdown with water, prone to condensation. No alkaline cleaners.			
Staff canteen style food preparation	Indoors,	0 °C to 40 °C	Low UV levels	Low level impact	Some exposure to water, mild detergents or household cleaners. No or minimal exposure to rain. No alkaline cleaners. Exposure to rainfall and moisture.			
Public eating area	Indoors or outdoors	Ambient air temperature	outdoors may be subjected to high UV levels, indoors low UV	May be prone to vandalism.	Some exposure to water, mild detergents or household cleaners. No alkaline cleaners.			
Pedestrian traffic areas	Indoors or outdoors	Ambient air temperature	outdoors may be subjected to high UV levels, indoors low UV	May be prone to vandalism.	None or minimal chemicals or detergent exposure. Exposure to rainfall and moisture.			
Toilets/wet areas	Indoors	5 °C to 40 °C	Low UV levels	Low level impact	Exposure to detergents or alkali cleaners, washdown with water, prone to condensation. No acid based cleaning agents.			
Office	Indoors	0 °C to 40 °C	Low UV levels	Low level impact	Minimal moisture or condensation, no or limited chemicals or detergent exposure.			
Outdoor BBQ's	Outdoors	Ambient air temperature -15 °C to 75 °C	High UV	May be prone to vandalism	possible exposure to animal fats or cooking oil splash, direct exposure to rain.			
Outdoor lighting	Outdoors	Ambient air temperature -15 °C to 75 °C	High UV	May be prone to vandalism	direct exposure to rain.			



BUC310
BUC310L
BUC315
BUC320F
BUC320
BUC332
BUC410
BUC420
BUC432
BUC440
BUC450
BUC510
BUC520
BUC532
BUC540
BUC550

See current catalogue for further detail



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IP66 Combination Switched Sockets

Buffalo offers an extensive range of IP66 rated Combination Switched Sockets that are available in three-pin 10A to 32A, four-pin 10A to 50A and five-pin 10A to 50A designs.

Phase links are factory fitted between switches and sockets.

Small Single phase Flat pin - 10A to 20A
 Size 1 Single & Three Phase - 10A- 20A
 Size 2 Single & Three Phase - 32A - 50A

Heavy Duty terminals are standard on all products with Double Pole switching option as standard on 3 pin products.

The combination switch handle has two padlocking facilities (Oval Shape 11 x 9mm) so equipment can be safely isolated.

Switch is provided with LED fitment option (not supplied).

Combination sockets feature a clear dustproof & hoseproof flap allowing simple viewing of sockets. The flap is also provided with a reliable spring-tensioned latch to keep dust & liquids out.

Part bag contains twin screwed connector.



Pin & Volt	Cat No.	Current Rating (A)	Pin Config	Pin Config Code (Table 1)	Enclosure	AC21 Rating (A)	AC23A Rating (A)	M Rating	Minimum Conductor Size (mm ²)	Maximum Conductor Size (mm ²)	Dimensions H* x W x D (mm)	Matching Plug Straight	Matching Plug Angled
3 Pin 250V~	BUC310	10	3 Flat	A	BUBB2GS	10	10	200	1.5	6	198x101x84	BUP310	-
	BUC310L	10	2 Flat 1 Round	C	BUBB2GS	10	10	200	1.5	6	198x101x84	BUP310L	-
	BUC315	15	3 Flat	B	BUBB2GS	15	15	200	1.5	6	198x101x84	BUP315	-
	BUC320F	20	3 Flat	E	BUBB2GS	20	20	200	2.5	16	198x101x84	BUP320F	-
	BUC320	20	3 Round	G	BUBB2G	20	20	200	2.5	16	198x101x108	BUP320	BUPA320
	BUC332	32	3 Round	H	BUBB2G	32	32	200	6	16	198x101x108	BUP332	BUPA332
4 Pin 500V~	BUC410	10	4 Round	I	BUBB2G	10	10	200	6	16	198x101x108	BUP410	BUPA410
	BUC420	20	4 Round	J	BUBB2G	20	20	200	6	16	198x101x108	BUP420	BUPA420
	BUC432	32	4 Round	K	BUBB2G	32	32	200	6	16	198x101x108	BUP432	BUPA432
	BUC440	40	4 Round	L	BUBB2G	40	40	200	6	16	198x101x108	BUP440	BUPA440
	BUC450	50	4 Round	M	BUBB2G	50	50	200	6	16	198x101x108	BUP450	BUPA450
5 Pin 500V~	BUC510	10	5 Round	N	BUBB2G	10	10	200	2.5	6	198x101x108	BUP510	BUPA510
	BUC520	20	5 Round	O	BUBB2G	20	20	200	2.5	6	198x101x108	BUP520	BUPA520
	BUC532	32	5 Round	P	BUBB2G	32	32	200	6	16	198x101x108	BUP532	BUPA532
	BUC540	40	5 Round	Q	BUBB2G	40	40	200	6	16	198x101x108	BUP540	BUPA540
	BUC550	50	5 Round	R	BUBB2G	50	50	200	6	16	198x101x108	BUP550	BUPA550

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

Certification Number:

BUC410, BUC420, BUC432, BUC440, BUC450, BUC510, BUC520, BUC532, BUC540, BUC550 : AZ69025570
 BUC310, BUC315, BUC320F: GMA-513502-EA
 BUC320, BUC332: AZ69025651

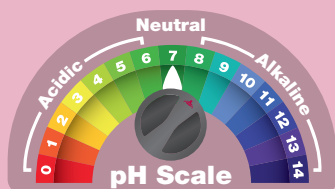
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BUC310
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BUC510
BUC520
BUC532
BUC540
BUC550

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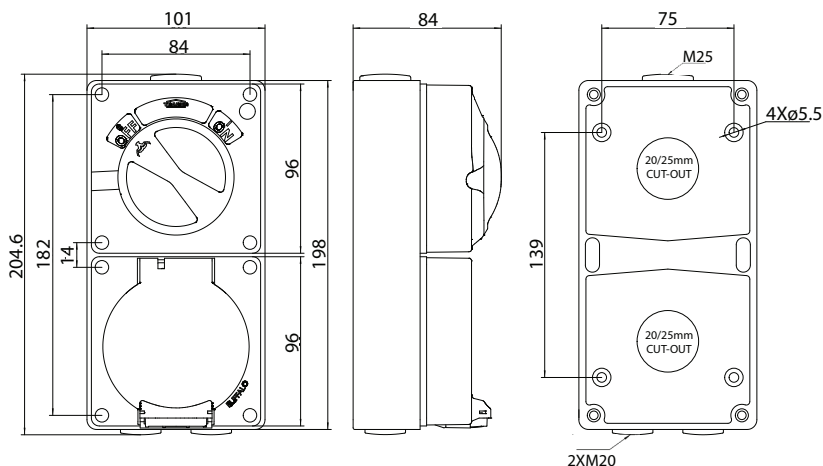
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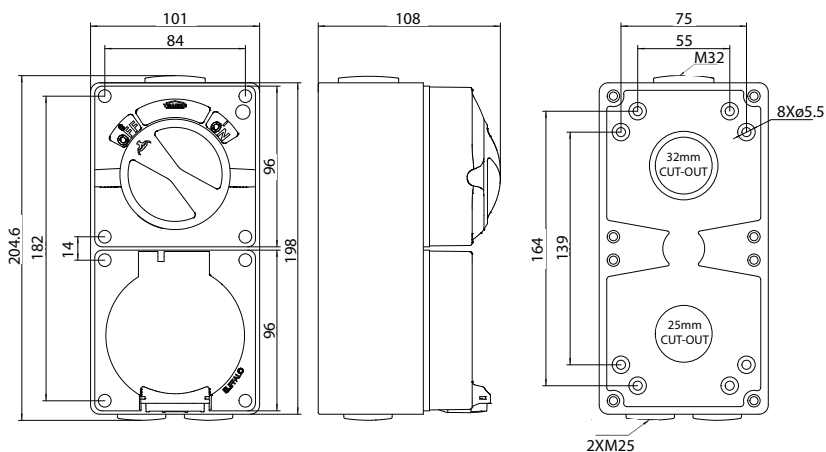


IP66 Combination Switched Sockets

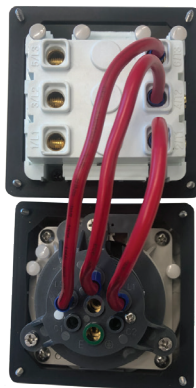
Flat Pin Models



Round Pin Models



Small Single Phase
Flat pin
10A to 20A



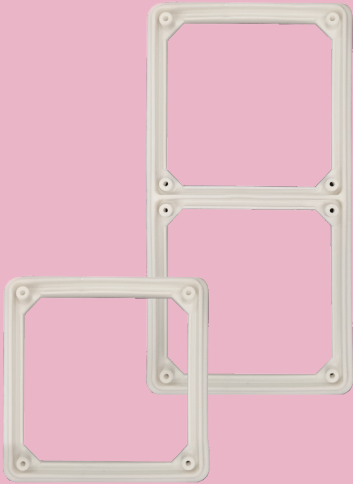
Size 1
Single/Three Phase
10A - 20A



Size 2
Single/Three Phase
32A - 50A

BUHPG1G BUHPG2G

See current catalogue for further detail



Buffalo High Pressure Gasket

- Suitable for use on Modular Trader Buffalo standard depth enclosures and Trader Buffalo extra deep enclosures. They are not recommended for use on the Trader Buffalo range of shallow enclosures (due to possible interference when cable glands are used).
 - Tested to IPX9 Level IEC 60529
 - Suitable for IP66 as well as IPX9
 - For pressure & temperature applications
 - 85°C Temp
 - Pressure 8,000 - 10,000 kPa
- The recommended torque is 0.8Nm. (Slightly tighter than normal hand tightening.)
The other recommendations are as follows:
- All unused conduit entries are to be sealed with PVC cement, or silicone or ensure o-rings are securely tightened.
 - All internal fixings are to have caps (supplied) installed, preferably siliconed in place.
 - Ideal for installations where food related residue needs to be pressure cleaned from between the cover modules, or down around the enclosures.
 - Excellent for applications close to equipment that need regular hot pressure washing to maintain hygienic conditions.
 - Requires slightly higher torque on corner screws as the gasket material is harder to resist the jet pressures.



Catalogue Number	Description
BUHPG1G	Gasket Weatherproof High Pressure 1 Gang Cream for Buffalo Range
BUHPG2G	Gasket Weatherproof High Pressure 2 Gang Cream for Buffalo Range

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BUC310RC30N
BUC315RC30N
BUC320RC30N
BUC320FRC30N
BUC332RC30N
BUC510RC30N
BUC520RC30N
BUC532RC30N
BUC540RC30N
BUC550RC30N

See current catalogue for further detail

IP66 Combination Switched Socket with 30mA RCD protection

Buffalo offers an extensive range of IP66 rated Combination Switched Sockets that are available in three-pin 10A and 15A, and five-pin 10A, 20A, 32A, 40A and 50A designs.

This range has now been expanded to include Wolverine range 30mA RCD protected combinations mounted in BU-4DIN

covers on BUBB4G four gang enclosures and pre-wired for ease of installation for the end user.

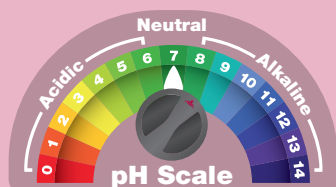
Cable links and assemblies have been tested in accordance with AS/NZS3100 to ensure suitable thermal performance.

The RCD protected range currently consists of:

- Single phase Flat pin - 10A and 15A combinations
- Size 1 Three Phase 5 pin - 10A and 20A combinations
- Size 2 Three Phase 5 pin - 32A - 50A combinations

As standard the DIN covers are non-power available variants.

Other options may be available upon special request.



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Pin & Volt	Cat No.	Current Rating (A)	Pin Config	Pin Config Code (Table 1)	Enclosure	AC21 Rating (A)	AC23A Rating (A)	M Rating	Minimum Conductor Size (mm ²)	Maximum Conductor Size (mm ²)	Dimensions H* x W x D (mm)	Matching Plug Straight	Matching Plug Angled
3 Pin 250V~	BUC310RC30N	10	3 Flat	A	BUBB4G	10	10	200	1.5	6	101x101x111	BUP310	-
	BUC315RC30N	15	3 Flat	B	BUBB4G	15	15	200	1.5	6	101x101x111	BUP315	-
	BUC320RC30N	20	3 Round	G	BUBB4G	20	20	200	2.5	16	101x101x111	BUP320	BUPA320
	BUC320RC30FRN	20	3 Flat	E	BUBB4G	20	20	200	2.5	16	101x101x111	BUP320F	-
	BUC332RC30N	32	3 Round	H	BUBB4G	32	20	200	2.5	16	101x101x111	BUP332	BUPA332
5 Pin 500V~	BUC510RC30N	10	5 Round	N	BUBB4G	10	10	200	2.5	6	101x101x111	BUP510	BUPA510
	BUC520RC30N	20	5 Round	O	BUBB4G	20	20	200	2.5	6	101x101x111	BUP520	BUPA520
	BUC532RC30N	32	5 Round	P	BUBB4G	32	20	200	6	16	101x101x111	BUP532	BUPA532
	BUC540RC30N	40	5 Round	Q	BUBB4G	40	25	200	6	16	101x101x111	BUP540	BUPA540
	BUC550RC30N	50	5 Round	R	BUBB4G	50	25	200	6	16	101x101x111	BUP550	BUPA550

Note: All units are made to order with a 4-week lead time.

Please enquire for availability, and pricing.



BUSW210
BUSW220
BUSW232
BUSW310
BUSW320
BUSW332
BUSW363
BUSW420
BUSW432
BUSW463

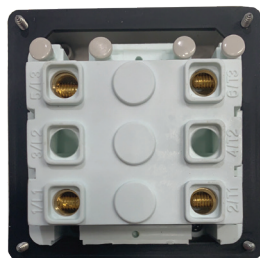
See current catalogue for further detail

IP66 Heavy Duty Switches / Switch Disconnectors

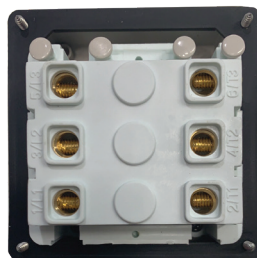


- The Buffalo switches have recently been updated with testing for categorization for Isolation and are now marked for use as switch disconnectors.
- The 10A to 20A models have been certified in accordance with AS/NZS3133 and 10A,20A,32A, and 63A have also been tested complied with IEC and AS 60947-3 with the 32A and 63A models being listed on a certificate of suitability.
- The same heavy duty switches are used in our Combinations are available as individual switches for isolation and control applications.
- Heavy Duty terminals with diameter 7.6mm terminals suitable for 25mm² cable.
- Switch supplied with a large, easy to use knob, suitable for use with heavy industrial gloves. Has a positive, rotary action.
- Switch Knob features two Oval Shape (11 x 9mm) lock off facilities. Suits 9.0mm padlock staple.
- Conduit plugs provided with rubber gaskets to assist IP rating and to aid secure fitment.
- Raised ON/OFF marking to allow visibility in dusty environments.
- Laser etched product marking (no adhesive labels that fall off).
- LED Drill out facility for LED indicators (not supplied).
- Approved to AS/NZS3133 (10A - 20A), AS 60947-3 (Over 32A).(All models tested in accordance and comply with both standards)
- BUSW463 is fitted with a deep enclosure.
- Range includes Double, Three Pole, as well as Four Pole in amperages from 10A up to 63A. See the table for product detail as some configurations vary.
- All models have been tested and comply with AS/NZS 3133 M200 motor rating as shown in the table.
- In addition, the Utilization category of AC23A for motors and highly inductive loads is rated at I_e=10A for the 10A models, I_e=20A for 20A and I_e=32A Models and I_e=50A for 63A.
- Pollution Degree: 2
- Recommended screw torque for corner cover screws 0.6Nm
- Recommended torque for Earth/Neutral fixed terminals 2Nm
- Recommended torque for Switch terminals 2.5Nm

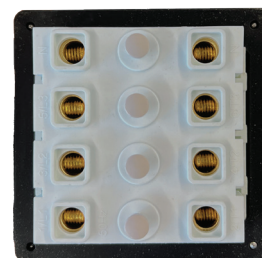
Heavy Duty Switch Terminals



2 Pole



3 Pole



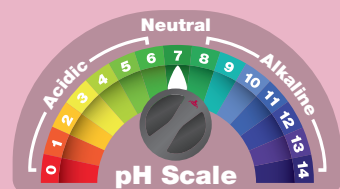
4 Pole

Certification Number:

BUSW110, BUSW210, BUSW120, BUSW220,
 BUSW310, BUSW320: SAA-212017-EA
 BUSW232, BUSW332, BUSW340, BUSW350, BUSW363: SAA212342

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 www.gsm.com.au



Cleaning Guide:

Spraying cleaning products on to electrical products is not recommended.

It is important to ensure that switches are turned off before cleaning.

Do not use any cleaning sprays - only wipe down with damp cloth or rub with dry cloth. (Do not use an abrasive cloth as it may scratch the plastic).

Do not use harsh chemical cleaners as these can break down the plastic and cause it to crack.

PAGE 1 of 2



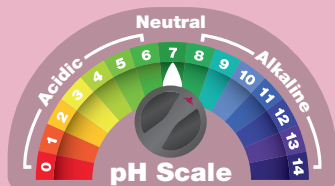
BUSW210
BUSW220
BUSW232
BUSW310
BUSW320
BUSW332
BUSW363
BUSW420
BUSW432
BUSW463

See current catalogue for further detail

IP66 Heavy Duty Switches / Switch Disconnectors

Configuration (Ratings to IEC60947-3/AS 60947-3 and AS/NZS 3133)		Cat No.	Rated Thermal Current Ith	AC23A Rating (Ue:500V~) (Ie=(A))	Motor M Rating (A)	Minimum Conductor Size (mm ²)	Maximum Conductor Size (mm ²)	Symbol
2 Pole	Rated Operational Voltage Ue (50Hz):500V~ Rated Insulation Voltage Ui (~50Hz):690V Rated Short Time Withstand Icw: 1.26kA/1s Rated impulse withstand voltage Uimp (kV): 4.0kV Rated short circuit making capacity Icm (28.4Ie): 1.789kA Uninterrupted Duty	BUSW210	10	10	200	2.5	16	
		BUSW220	20	20	200	2.5	16	
		BUSW232	32	32	200	6	16	
3 Pole	Rated Operational Voltage Ue (50Hz):500V~ Rated Insulation Voltage Ui (~50Hz):690V Rated Short Time Withstand Icw: 1.26kA/1s Rated impulse withstand voltage Uimp (kV): 4.0kV Rated short circuit making capacity Icm (28.4Ie): 1.789kA Uninterrupted Duty	BUSW310	10	10	200	2.5	16	
		BUSW320	20	20	200	2.5	16	
		BUSW332	32	32	200	6	16	
		BUSW363	63	50	200	16	25	
4 Pole	Rated Operational Voltage Ue (50Hz):500V~ Rated Insulation Voltage Ui (~50Hz):690V Rated Short Time Withstand Icw: 1.26kA/1s Rated impulse withstand voltage Uimp (kV): 4.0kV Rated short circuit making capacity Icm (28.4Ie): 1.789kA Uninterrupted Duty	BUSW420	20	20	200	2.5	16	
		BUSW432	32	32	200	6	16	
		BUSW463	63	50	200	16	25	

When ordering LESS ENCLOSURE add "LE" at end of catalogue number, ie "BUSW210LE"



Cleaning Guide:

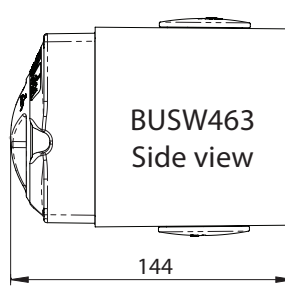
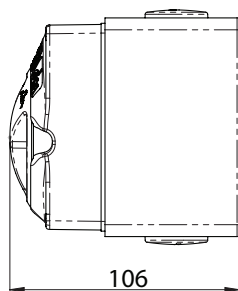
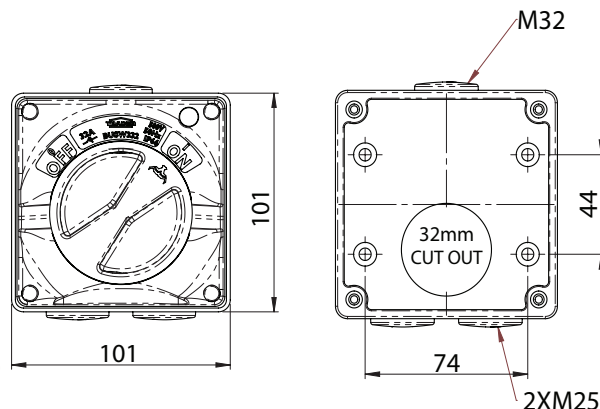
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Do not use harsh chemical cleaners as these can break down the plastic and cause it to crack.

PAGE 2 of 2



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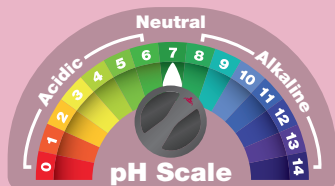


BUSUNSW

See current catalogue for further detail

Weatherproof IP66 Sunset Switch

- Voltage: 220-240V/AC
- Power Frequency: 50/60Hz
- Rated Current: 16A
- SBL (LED) 400W
- Suitable for incandescent and dimmable fluorescent
- Ambient Light: <3-500LUX (adjustable)
- Working Temperature: -20~+40°C
- Working Humidity: <93%RH
- Built-in Timer: 1, 2, 3, 4, 5, 6, 7, 8, 9 Hours
- IP Class: IP66
- Internal terminal cover for greater safety
- Fits modular Buffalo range of back boxes.



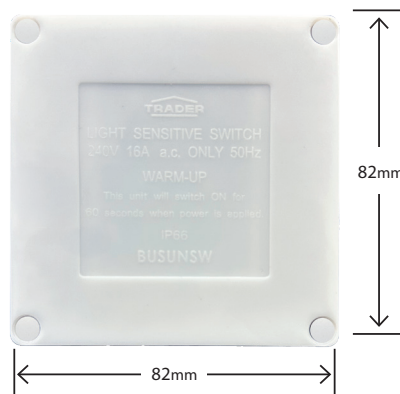
Cleaning Guide:

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Catalogue Number	Description
BUSUNSW	Sunset Switch Weatherproof IP66 16A 220V 240V ac 250W LED Rated 3 Wire Programmable 1 hour Dusk to Dawn

Certification Number:

GMA-521737-EA

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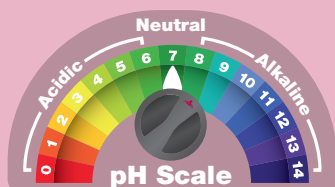


BUSW210K1
BUSW210K2
BUSW220K1
BUSW220K2
BUSW320K1
BUSW320K2
BUSW332K1
BUSW332K2

See current catalogue for further detail

IP66 Heavy Duty Key Lock Switch Disconnectors

- The 10A to 20A models have been certified in accordance with AS/NZS3133 and 32A, have also been tested complied with IEC and AS 60947-3 with the 32A models being listed on a certificate of suitability.
- Heavy Duty terminals with diameter 7.6mm terminals suitable for 25mm² cable.
- Switch supplied with a large, easy to use knob, suitable for use with heavy industrial gloves. Has a positive, rotary action.
- Conduit plugs provided with rubber gaskets to assist IP rating and to aid secure fitment.
- Raised ON/OFF marking to allow visibility in dusty environments.
- Laser etched product marking (no adhesive labels that fall off).
- LED Drill out facility for LED indicators (not supplied).
- Range includes Double, Three Pole, as well as Four Pole in amperages from
- All models have been tested and comply with AS/NZS 3133 M200 motor rating as shown in the table.
- In addition, the Utilization category of AC23A for motors and highly inductive loads is rated at Ie=10A for the 10A models, Ie=20A for 20A and Ie=32A Models.
- Pollution Degree: 2
- Recommended screw torque for corner cover screws 0.6Nm
- Recommended torque for Earth/Neutral fixed terminals 2Nm
- Recommended torque for Switch terminals 2.5Nm



Cleaning Guide:

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It is important to ensure that switches are turned off before cleaning.

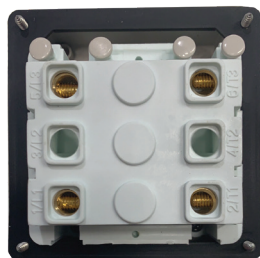
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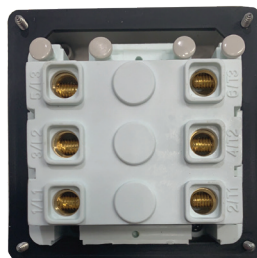
PAGE 1 of 2



Heavy Duty Switch Terminals



2 Pole



3 Pole

Certification Number:

BUSW210K1, BUSW210K2, BUSW220K1, BUSW220K2,
 BUSW320K1, BUSW320K2: GMA-519971-EA
 BUSW332K1, BUSW332K2: GMA-520240

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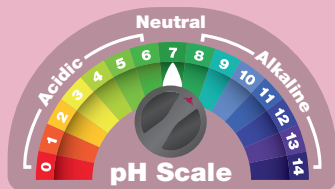


BUSW210K1
BUSW210K2
BUSW220K1
BUSW220K2
BUSW320K1
BUSW320K2
BUSW332K1
BUSW332K2

See current catalogue for further detail

IP66 Heavy Duty Key Lock Switch Disconnectors

Configuration (Ratings to IEC60947-3/AS 60947-3 and AS/NZS 3133)		Cat No.	Rated Thermal Current Ith	AC23A Rating (Ue:500V~) (Ie=(A))	Motor M Rating (A)	Minimum Conductor Size (mm²)	Maximum Conductor Size (mm²)	Symbol
2 Pole	Rated Operational Voltage Ue (50Hz):500V~ Rated Insulation Voltage Ui (~50Hz):690V Rated Short Time Withstand Icw: 1.26kA/1s Rated impulse withstand voltage Uimp (kV): 4.0kV Rated short circuit making capacity Icm (28.4Ie): 1.789kA Uninterrupted Duty	BUSW210K1	10	10	200	2.5	16	
		BUSW210K2	10	10	200	2.5	16	
		BUSW220K1	20	20	200	2.5	16	
		BUSW220K2	20	20	200	2.5	16	
3 Pole	Rated Operational Voltage Ue (50Hz):500V~ Rated Insulation Voltage Ui (~50Hz):690V Rated Short Time Withstand Icw: 1.26kA/1s Rated impulse withstand voltage Uimp (kV): 4.0kV Rated short circuit making capacity Icm (28.4Ie): 1.789kA Uninterrupted Duty	BUSW320K1	20	20	200	2.5	16	
		BUSW320K2	20	20	200	2.5	16	
		BUSW332K1	32	32	200	6	16	
		BUSW332K2	32	32	200	6	16	



Cleaning Guide:

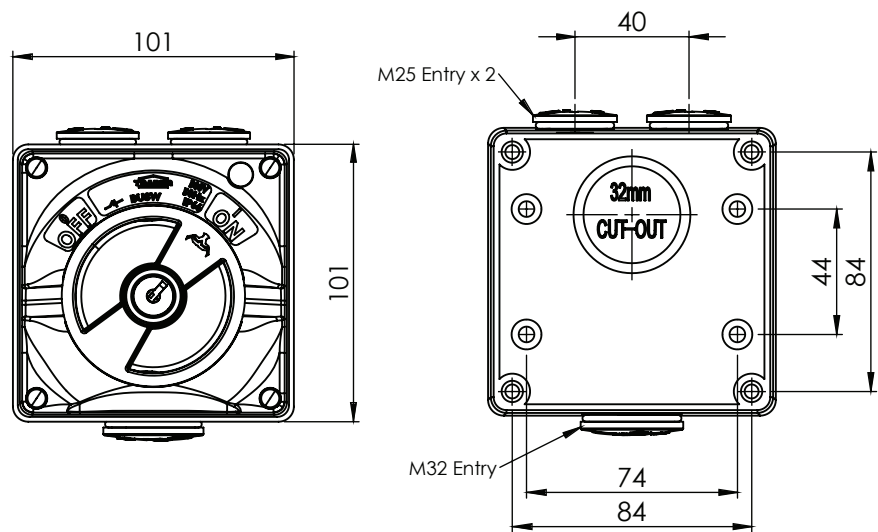
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PAGE 1 of 2

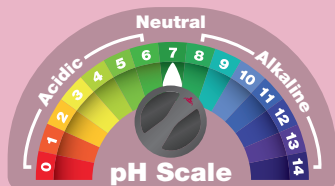


BUSW220CO BUSW320R

See current catalogue for further detail



Rotary Cam-Switch Control



Cleaning Guide:

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IP66 Changeover & Reversing Switches

Buffalo's Two Pole 20A Changeover & Three Pole 20A Forward/Reversing Switches are housed within IP66 single modules as part of the overall modular concept of the range.

Provided with Rotary Cam Switch control with clear escutcheon marking:

- Changeover marked '1-0-2'
- Forward OFF Reverse marked 'F-0-R'

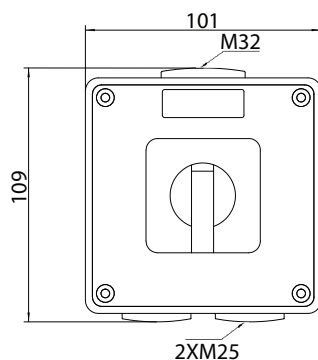
Earth and neutral connectors accommodating 3 x 6mm² cables are provided with all models.

Approved to AS/NZS3133.

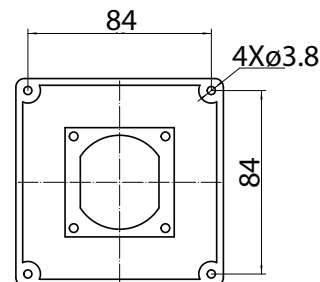
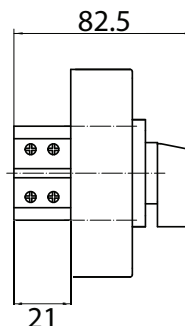
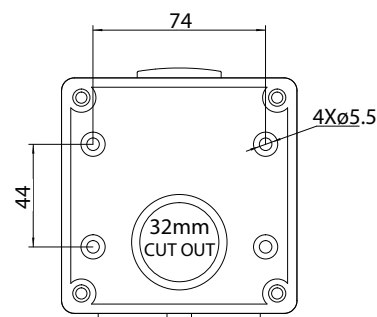
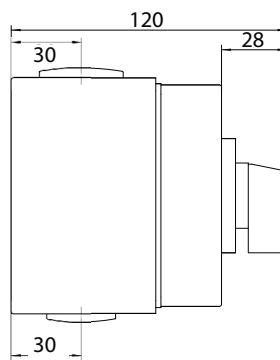
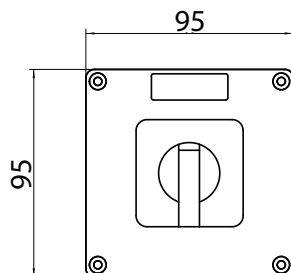


Pole & Volt	Cat No.	Current Rating (Nominal) (A)	Conduit Entries	Rear Cut-Outs dia.
2 Pole 500V~	BUSW220CO	20	2 x 25mm 1 x 32mm	1 x 32mm
3 Pole 500V~	BUSW320R	20	2 x 25mm 1 x 32mm	1 x 32mm

When ordering LESS ENCLOSURE add "LE" at end of catalogue number, ie "BUSW220COLE"



Less Enclosure



Certification Number:

GMA-516354-EA

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BUPBESTO
BUPBSTA
BUPBSTAESTO
BUPBSTASTO
BUPBSTASW
BUPBESTOSW
BUPBSTOSW
BUPBCBNO
BUPBCBNC
BUPBSTACOV1
BUPBSTACOV2

See current catalogue for further detail

Heavy Duty Push Button Switches



BUPBESTO, BUPBSTA, BUPBSTAESTO and BUPBSTASTO push button control stations come standard with the BUBB1G 65 deep back box.

The assemblies have been tested for suitability in accordance with IEC 60947-5.1 Low Voltage Switchgear and Control Gear for control circuit devices and switching elements- electromechanical control circuit devices.

The Buffalo range of push button stop/start control stations are designed to complement other aspects of the modularity the Buffalo Range offers and can be adapted to multi-gang back box assemblies with other equipment. The buttons fit into the single module cover and available with marked covers for start and stop in standard flush button format or with mushroom head emergency stop twist and release suited to IP66 installations.

The cover assemblies come standard as single pole format with start buttons using a single N/O switch contact block cassette (BUPBCBNO) and stops using a N/C contact block cassette (BUPBCBNC). These can be converted to double pole by simply adding a second switch cassette to the button base. Spare parts for the buttons are available as both complete assembled buttons (BUPBSTASW, BUPBESTOSW and BUPBSTOSW) and separate cassette components.

Separate covers are also available with pre-drilled 22mm holes to suit standard push buttons or pilot lights, naturally it is up to the installer to confirm these will comply with the IP rating. The button assemblies have been tested and comply with IP66 but there are many available in the market that can be installed which do not.

Catalogue Number	Description
BUPBESTO	Push Button Emergency Stop Control Station Mushroom Button Twist Release Normally Closed Contact 10A 600V ac IP66
BUPBSTA	Push Button Start Control Station Normally Open Contact 10A 600V ac IP66
BUPBSTAESTO	Push Button Start Emergency Stop Control Station Mushroom Button Twist Release Normally Open Normally Closed Contacts 10A 600V ac IP66
BUPBSTASTO	Push Button Start Stop Control Station Twist Release Normally Open Normally Closed Contacts 10A 600V ac IP66
BUPBSTASW	Push Button Start Switch Normally Open 10A 600V ac IP65
BUPBESTOSW	Push Button Stop Switch Normally Closed 10A 600V ac IP65
BUPBSTOSW	Push Button Stop Switch Mushroom Button Twist Release Normally Closed 10A 600V ac IP65
BUPBCBNO	Push Button Contact Block Normally Open 10A 600V ac
BUPBCBNC	Push Button Contact Block Normally Closed 10A 600V ac
BUPBSTACOV1	Push Button Start Control Station Cover Only 1 Aperture
BUPBSTACOV2	Push Button Start Control Station Cover Only 2 Apertures

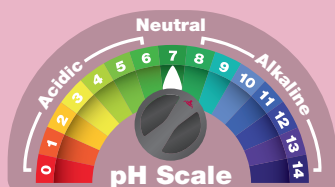
Cleaning Guide:

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Certification Number:

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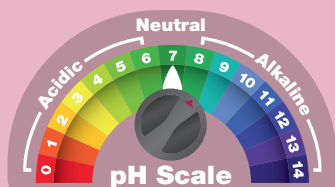
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BUPBESTO
BUPBSTA
BUPBSTAESTO
BUPBSTASTO
BUPBSTASW
BUPBESTOSW
BUPBSTOSW
BUPBCBNO
BUPBCBNC
BUPBSTACOV1
BUPBSTACOV2

See current catalogue for further detail



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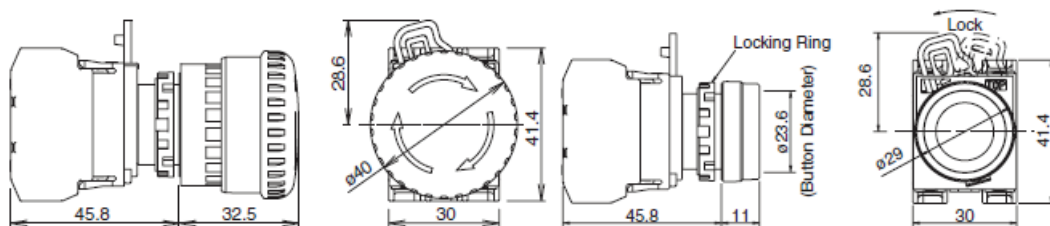
PAGE 2 of 2



Heavy Duty Push Button Switches

Contact Ratings (Contact Block)					
Rated Insulation Voltage		600V			
Rated Thermal Current		10A			
Operating Voltage		24V	120V	240V	380V
AC 50/60 Hz	Resistive Load (AC-12)	10A	10A	6A	2A
	Inductive Load (AC-15)	10A	6A	3A	1.9A
DC	Resistive Load (DC-12)	8A	2.2A	1.1A	-
	Inductive Load (DC-13)	4A	1.1A	0.55A	-

Specifications	
Operating Conditions	Operating temperature: -20 to +55°C (no freezing) Operating humidity: 45 to 85% RH (no condensation) Storage temperature: -45 to +80°C Storage humidity: 95% RH maximum
Degree of Protection	From panel front: IP65 (IEC 60529) Terminal: IP20 (IEC 60529)
Insulation Resistance	100 MΩ
Dielectric Strength	Contact block: 2,500V, 1 minute Pilot light: 2,000V, 1 minute
Vibration Resistance	<Emergency stop switch> Operating extremes / Damage limits: 10 to 500Hz, amplitude 0.35 mm, acceleration 50 m/s ² (5G) <Pushbutton, pilot light, illuminated pushbutton, selector switch, and key selector switch> Operating extremes: 5 to 55 Hz, amplitude 0.5 mm Damage limits: 30 Hz, amplitude 1.5 mm
Shock Resistance	<Emergency stop switch> Operating extremes: 150 m/s ² (15G) Damage limits: 1,000 m/s ² (100G) <Pushbutton> Operating extremes: 100 m/s ² (10G) Damage limits: 1,000 m/s ² (100G)
Mechanical Life	<Emergency stop switch> 250,000 (single contact block) <Pushbutton> Momentary: 5,000,000 (single contact block) 1,000,000 (double contact block) Maintained: 250,000 (single contact block) 100,000 (double contact block)
Electrical Life (minimum operations)	<Emergency stop switch> 100,000 (single contact block) <Pushbutton, selector switch, and key selector switch> 100,000 (single contact block) 50,000 (double contact block)

**Certification Number:**

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BUAI310 BUAI315

See current catalogue for further detail

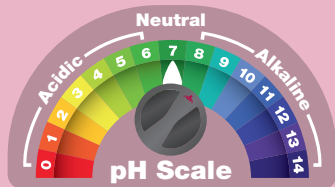
IP66 Appliance Inlets Single Phase Flat Pin (250V~)

The Appliance Inlets physically adapt with the other products in the Buffalo range and offer opportunities to provide power to portable infrastructure in harsh conditions. They utilise the same interchangeable gasket systems to meet IP66 performance.

Available in 10A and 15A flat pin format compliant to AS/NZS3112. The material of these products varies from others in the range as they are made from UV stabilised polycarbonate. They use the same installation and gasket system as the rest of the Buffalo range and provide suitable IP66 seal when installed.

Features and Benefits

- 3 flat pins, 10A & 15A
- 1.5mm – 6mm conductor terminal
- Grey polycarbonate construction.
- Insulated Pins.
- Transparent Spring loaded flap.
- Compliant to AS/NZS3112.



Cleaning Guide:

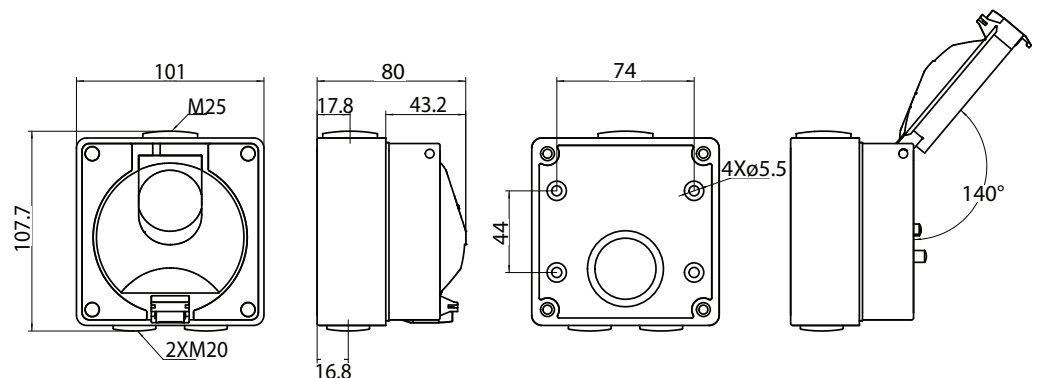
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Cat No.	Description	Height (mm)	Width (mm)	Length (mm)	Conduit Entries	Matching Extension Socket
BUAI310	Appliance Inlet IP66 10A 250V~	80	101	101	2 x 20mm 1 x 25mm	BUEXS0310
BUAI315	Appliance Inlet IP66 15A 250V~	80	101	101	2 x 20mm 1 x 25mm	BUEXS0315
BUAI310LE	Appliance Inlet IP66 10A 250V~, Less Enclosure	43	97	97	N/A	BUEXS0310
BUAI315LE	Appliance Inlet IP66 15A 250V~, Less Enclosure	43	97	97	N/A	BUEXS0315



Certification Number:

SAA191208

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BUAI320
BUAI332
BUAI410
BUAI420
BUAI432
BUAI440
BUAI450
BUAI510
BUAI520
BUAI532
BUAI540
BUAI550

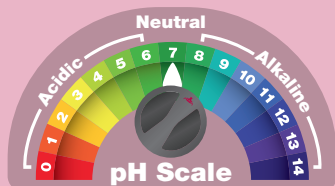
See current catalogue for further detail

IP66 Appliance Inlets Single & Three Phase Round Pin (250V~ & 500V~)

- Size 1 Single & Three Phase 10A to 20A (250V~ to 500V~).
- Size 2 Single & Three Phase 32A to 50A (250V~ to 500V~).
- 3 Round Pin, 4 Round Pin, 5 Round Pin.
- 10A, 15A, 20A, 32A, 40A & 50A current ratings.
- Two gang design to provide additional wiring space.
- Features downward facing, angled pin housing which enables extension sockets to be neatly connected without bulky right angle entry.
- Suits Small to Large Single or Three phase loads.
- Ribbed Locking Ring to assist gripping with gloved hands and to secure extension sockets.



Cat No.	Description	Dimensions H* x W x D (mm)	Terminal Size (mm dia)	Maximum Conductor Size (mm²)	Conduit Entries	Matching Extension Socket
BUAI320	Appliance Inlet IP66 20A 500V~ 3 Pin	183x101x198	4.1	10	2 x 25mm 1 x 32mm	BUEXSO320
BUAI332	Appliance Inlet IP66 32A 500V~ 3 Pin	183x101x198	4.1	10	2 x 25mm 1 x 32mm	BUEXSO332
BUAI410	Appliance Inlet IP66 10A 500V~ 4 Pin	183x101x198	4.1	10	2 x 25mm 1 x 32mm	BUEXSO410
BUAI420	Appliance Inlet IP66 20A 500V~ 4 Pin	183x101x198	4.1	10	2 x 25mm 1 x 32mm	BUEXSO420
BUAI432	Appliance Inlet IP66 32A 500V~ 4 Pin	183x101x198	4.1	10	2 x 25mm 1 x 32mm	BUEXSO432
BUAI440	Appliance Inlet IP66 40A 500V~ 4 Pin	183x101x198	4.1	10	2 x 25mm 1 x 32mm	BUEXSO440
BUAI450	Appliance Inlet IP66 50A 500V~ 4 Pin	183x101x198	4.1	10	2 x 25mm 1 x 32mm	BUEXSO450
BUAI510	Appliance Inlet IP66 10A 500V~ 5 Pin	183x101x198	4.1	10	2 x 25mm 1 x 32mm	BUEXSO510
BUAI520	Appliance Inlet IP66 20A 500V~ 5 Pin	183x101x198	4.1	10	2 x 25mm 1 x 32mm	BUEXSO520
BUAI532	Appliance Inlet IP66 32A 500V~ 5 Pin	183x101x198	4.1	10	2 x 25mm 1 x 32mm	BUEXSO532
BUAI540	Appliance Inlet IP66 40A 500V~ 5 Pin	183x101x198	4.1	10	2 x 25mm 1 x 32mm	BUEXSO540
BUAI550	Appliance Inlet IP66 50A 500V~ 5 Pin	183x101x198	4.1	10	2 x 25mm 1 x 32mm	BUEXSO550



Cleaning Guide:

Spraying cleaning products on to electrical products is not recommended. It is important to ensure that switches are turned off before cleaning.

Do not use any cleaning sprays - only wipe down with damp cloth or rub with dry cloth. (Do not use an abrasive cloth as it may scratch the plastic).

Do not use harsh chemical cleaners as these can break down the plastic and cause it to crack.

PAGE 1 of 2



Certification Number:

SA2 11330

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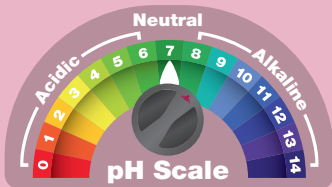
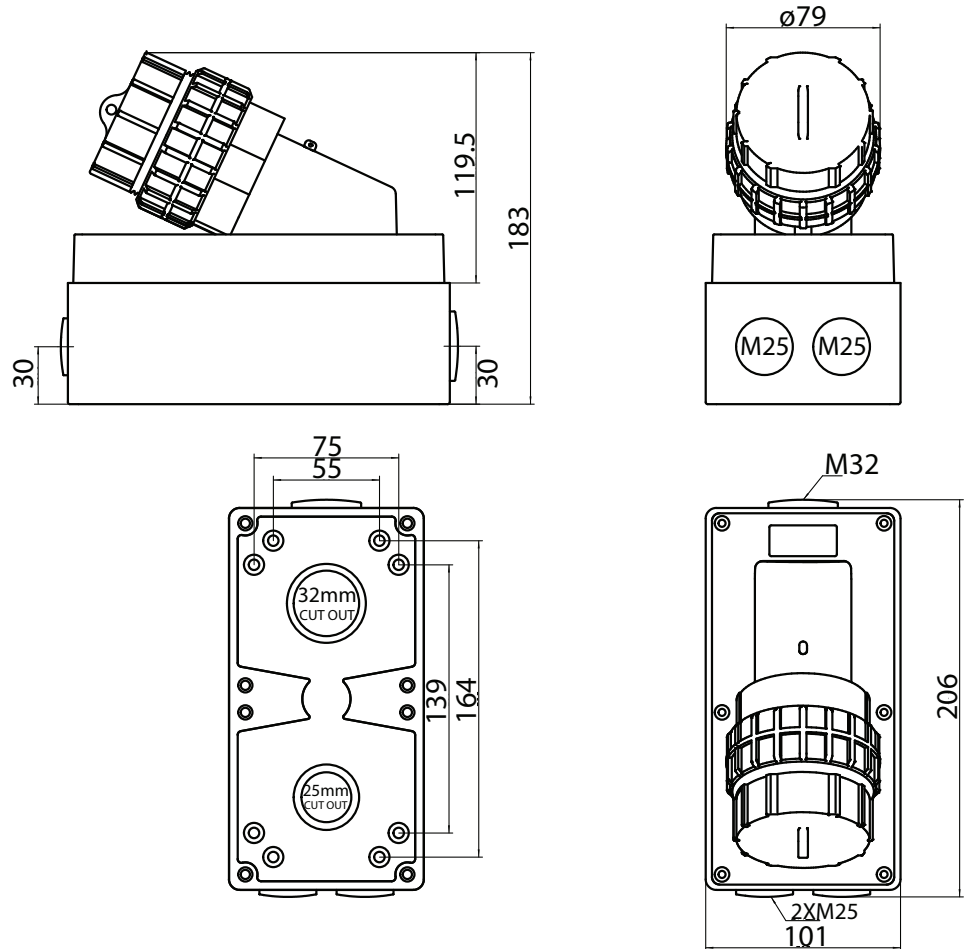
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BUAI320
BUAI332
BUAI410
BUAI420
BUAI432
BUAI440
BUAI450
BUAI510
BUAI520
BUAI532
BUAI540
BUAI550

See current catalogue for further detail

IP66 Appliance Inlets Single & Three Phase Round Pin (250V~ & 500V~)



Cleaning Guide:

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PAGE 2 of 2



BUSOAU310 BUSOAU315

See current catalogue for further detail

IP66 Sockets Auto Switched

Buffalo IP66 Auto-Switched Sockets as the name suggests can operate without the need for separate isolating switches. Available in 10A or 15A flat pin format compliant to AS/NZS3112.

They are robust and easy to use, and have a one piece spring-loaded transparent flap with self-latching design to seal out dust and moisture when not in use, ensuring an IP66 rating.

Flap's spring-loaded pin is centrally assembled eliminating the need to insert external cover caps. Flap opens up to 180° enabling easy insertion & removal of plugs.

Threaded socket surround will accept Plug lock rings to ensure IP66 rating & secure fitment.

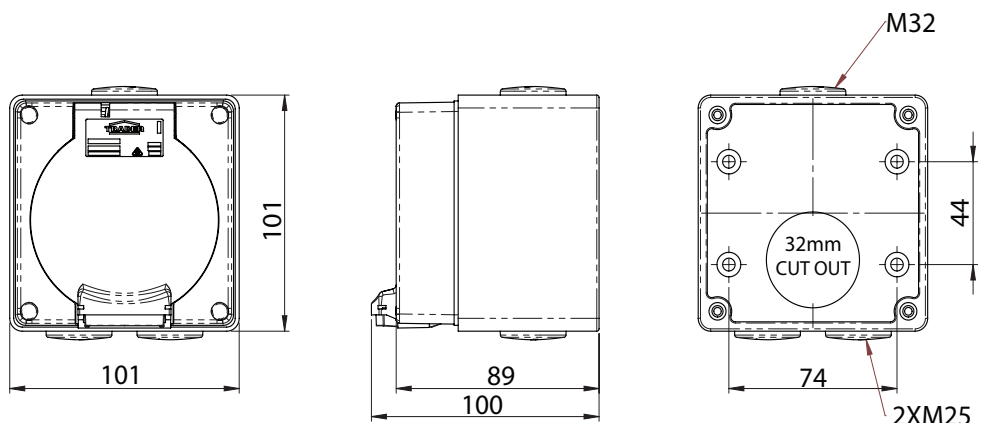
Shutter operates from either earth or neutral.

Auto-Switched Sockets are double pole switched.



Pin & Volt	Cat No.	Current Rating (A)	Pin Config	Pin Config Code (Table 1)	Enclosure	Minimum Conductor Size (mm²)	Maximum Conductor Size (mm²)	Buffalo Matching Plug
3 Pin 250V~	BUSOAU310	10	3 Flat	A	BUBB1G	1.5	6	BUP310
	BUSOAU315	15	3 Flat	B	BUBB1G	1.5	6	BUP315

When ordering LESS ENCLOSURE add "LE" at end of catalogue number, ie "BUSOAU310LE"



Certification Number:

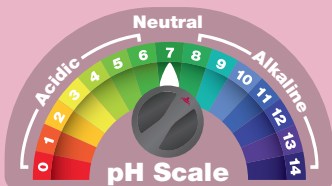
SAA-212016-EA

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www.gsme.com.au



Cleaning Guide:

Spraying cleaning products on to electrical products is not recommended.

It is important to ensure that switches are turned off before cleaning.

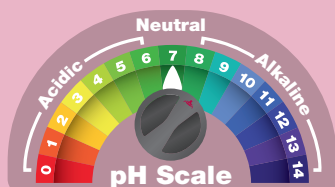
Do not use any cleaning sprays - only wipe down with damp cloth or rub with dry cloth. (Do not use an abrasive cloth as it may scratch the plastic).

Do not use harsh chemical cleaners as these can break down the plastic and cause it to crack.



BUSO215P32
BUSO310
BUSO310L
BUSO310RP
BUSO315
BUSO320F
BUSO320
BUSO332
BUSO410
BUSO420
BUSO432
BUSO440
BUSO450
BUSO510
BUSO520
BUSO532
BUSO540
BUSO550

See current catalogue for further detail



Cleaning Guide:

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PAGE 1 of 2



IP66 Heavy Duty Switches / Switch Disconnectors

The Socket components used in Buffalo 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 spring-loaded transparent flap with self-latching design to seal out dust and moisture when not in use, ensuring an IP66 rating.

Flap's spring-loaded pin is centrally assembled eliminating the need to insert external cover caps. Flap opens up to 180° enabling easy insertion & removal of plugs.

Threaded socket surround will accept Plug lock rings to ensure IP66 rating & secure fitment.

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

Small Single phase Flat pin - 10A to 20A

Size 1 Single & Three Phase - 10A- 20A

Size 2 Single & Three Phase - 32A - 50A



Pin & Volt	Cat No.	Current Rating (A)	Pin Config	Pin Config Code (Table 1)	Enclosure	Minimum Conductor Size (mm ²)	Maximum Conductor Size (mm ²)	Buffalo Matching Plug
2 Pin 32V~	BUSO215P32	15	2 Pin Polarised	D	BUBB1G	2.5	6	-
3 Pin 250V~	BUSO310	10	3 Flat	A	BUBB1G	1.5	6	BUP310
	BUSO310L	10	2 Flat 1 Round	C	BUBB1G	1.5	6	BUP310L
	BUSO310RP	10	3 Round	F	BUBB1G	1.5	6	BUP310RP
	BUSO315	15	3 Flat	B	BUBB1G	2.5	6	BUP315
	BUSO320F	20	3 Flat	E	BUBB1G	2.5	6	BUP320F
	BUSO320	20	3 Round	G	BUBB1G	2.5	6	BUP320/BUPA320
4 Pin 500V~	BUSO332	32	3 Round	H	BUBB1G	6	16	BUP332/BUPA332
	BUSO410	10	4 Round	I	BUBB1G	2.5	6	BUP410/BUPA410
	BUSO420	20	4 Round	J	BUBB1G	2.5	6	BUP420/BUPA420
	BUSO432	32	4 Round	K	BUBB1G	6	16	BUP432/BUPA432
	BUSO440	40	4 Round	L	BUBB1G	6	16	BUP440/BUPA440
5 Pin 500V~	BUSO450	50	4 Round	M	BUBB1G	6	16	BUP450/BUPA450
	BUSO510	10	5 Round	N	BUBB1G	2.5	6	BUP510/BUPA510
	BUSO520	20	5 Round	O	BUBB1G	2.5	6	BUP520/BUPA520
	BUSO532	32	5 Round	P	BUBB1G	6	16	BUP532/BUPA532
	BUSO540	40	5 Round	Q	BUBB1G	6	16	BUP540/BUPA540
	BUSO550	50	5 Round	R	BUBB1G	6	16	BUP550/BUPA550

When ordering LESS ENCLOSURE add "LE" at end of catalogue number, ie "BUSO310LE"

Certification Number:

BUSO410, BUSO420, BUSO432, BUSO440, BUSO450, BUSO510,

BUSO520, BUSO532, BUSO540, BUSO550 : AZ69025555

BUSO310, BUSO315, BUSO320F: GMA-513501-EA

BUSO320, BUSO332: AZ69025572

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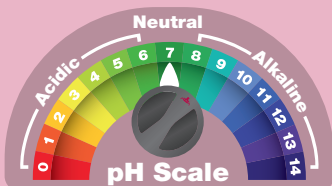
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www.gsm.com.au



BUSO215P32
 BUSO310
 BUSO310L
 BUSO310RP
 BUSO315
 BUSO320F
 BUSO320
 BUSO332
 BUSO410
 BUSO420
 BUSO432
 BUSO440
 BUSO450
 BUSO510
 BUSO520
 BUSO532
 BUSO540
 BUSO550

See current catalogue for further detail



Cleaning Guide:

Spraying cleaning products on to electrical products is not recommended.

It is important to ensure that switches are turned off before cleaning.

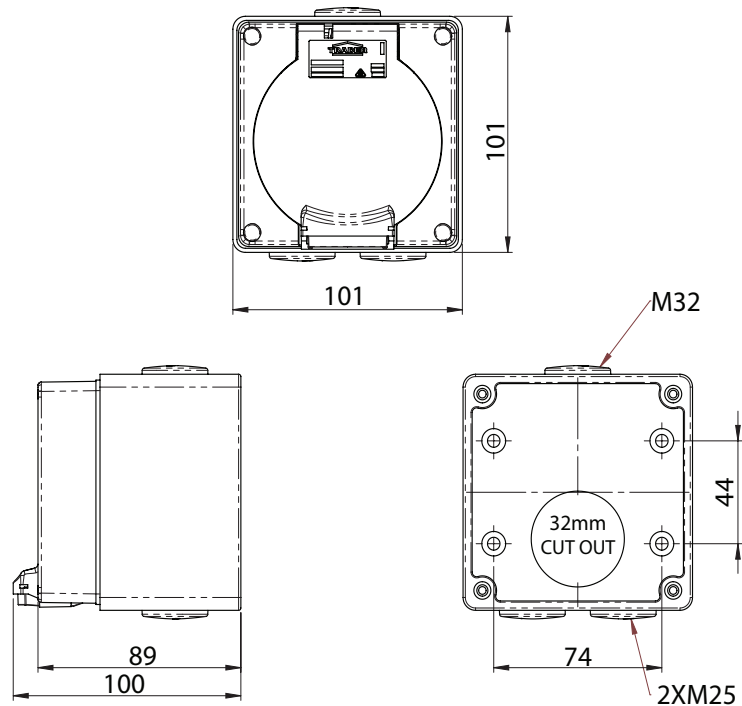
Do not use any cleaning sprays - only wipe down with damp cloth or rub with dry cloth. (Do not use an abrasive cloth as it may scratch the plastic).

Do not use harsh chemical cleaners as these can break down the plastic and cause it to crack.

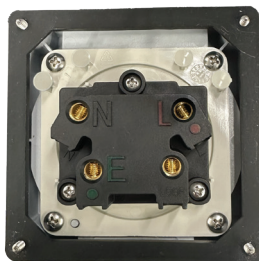
PAGE 2 of 2



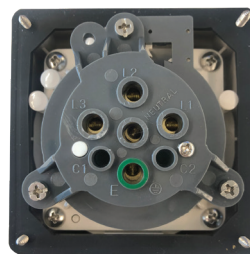
IP66 Heavy Duty Switches / Switch Disconnectors



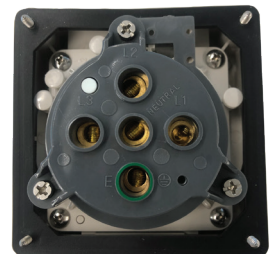
Heavy Duty Socket Terminals



Small Single Phase
 Flat pin
 10A to 20A



Size 1
 Single/Three Phase
 10A - 20A



Size 2
 Single/Three Phase
 32A - 50A

BUSO432E3HLE BUSO432E6HLE

See current catalogue for further detail

IP66 IEC309 Socket

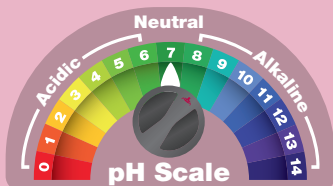
Buffalo IP66 IEC309 Sockets, 32 Amp 380V - 440V IP66 socket, adapted to fit the modular Buffalo series assemblies and back boxes.

Fits combination assembly layouts (Functional with a Buffalo switch BUSW series switch above it)

Ideal for general use where international plugs are used, particularly with the application for industrial plug from refer containers.

Panel Mounting Straight Socket with Nickel -plated socket contacts, Pa66/Pa6 material body on a polycarbonate base.

- Working Temperature: +40, -25° C
- Rated Voltage: 380V - 440V
- Frequency: 50/60Hz
- Poles: 4
- Rated Current: 32A
- Earth pin position at 3 o'clock or 6 o'clock
- Conforms to European / International standards EN/IEC 60309
- Good corrosion protection in aggressive environments and at high degrees of air humidity due to nickel-plated contacts.
- Highly heat resistant contacts.
- Easy opening and closing of lid though integrated opening bayonet rotating lock.
- Reduced installation time.
- Quality tunnel type terminals which securely clamp the conductor.
- Sold as less enclosure to allow greater flexibility and adaptation to other electrical box assemblies.



Cleaning Guide:

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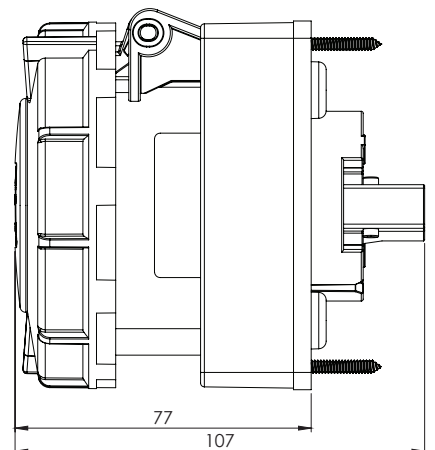
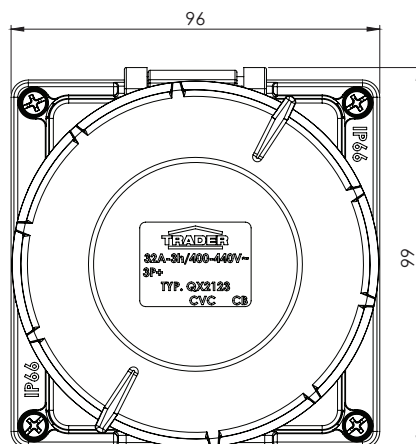
It is important to ensure that switches are turned off before cleaning.

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Cat No.	Description	Height (mm)	Width (mm)	Length (mm)
BUSO432E3HLE	Socket IP66 380-440V~ 4 Pin 32A IEC309 Earth 3 hour Less Enclosure	99	107	96
BUSO432E6HLE	Socket IP66 500V 4 Pin 32A IEC309 Earth 6 hour Less Enclosure	99	107	96



Certification Number:

GMA-516399

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BURCD20DP30

See current catalogue for further detail



Buffalo Residual Current Device (RCD)

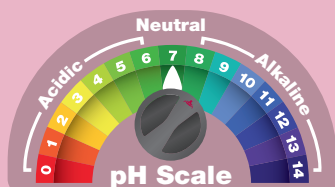
The BU2P20RCD is a 30mA sensing residual current device with double pole 20A rated switching contacts. The RCD constantly monitors the current flow between the phase active and neutral for the device that it is connected to whether an appliance or socket outlet. When the RCD senses an imbalance at the 30mA threshold it trips the circuit and removes the power before personal injury can occur. This RCD is designed to be used as local protection within the Buffalo modular range and should be used in conjunction with other forms of personal and overcurrent protecting in the electrical system.

This Buffalo RCD is designed to function within the IP66 rated housing and provide personal protection for Earth faults and is intended for use either as a permanently wired device in an installation or connected to a socket outlet in a multi-gang arrangement for use with plugging in different appliances or equipment.

The RCD contains a green LED on the front that shows there is power to the unit, however the RCD is not armed so power will not be supplied to the connected device. This is also an indication that the RCD has tripped. When the green RESET button is pressed, the RCD contact will close (providing the circuit is safe) and the LED will show red indicating that power is flowing through the unit to the connected device. When the yellow test button is pressed the LED will trip and the red LED will turn green, indicating the connected circuit is safe. The RCD is in the circuit for providing personal protection and should not be used as an on/off switch for a socket outlet or device. These should have their own functional switch or auto switched socket arrangement.

The RCD is for personal protection and should be connected to a 20A max MCB at the distribution board to prevent damage from overload to circuits or the RCD.

Prior to maintenance devices MUST be disconnected from the RCD to prevent damage and MUST be isolated at the switchboard.



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Rating	230 - 240V a.c. 50Hz	Protection	IP66
Rated Load	20A	Operating temp.	-10°C to 40°C
Maximum Load	4800W	Dimensions	100mm x 100mm x 75mm
Max. tripping current a.c and pulsating d.c	30mA	Type tested to	AS/NZS3100, AS/NZS3190, AS/NZS3175 Clause 9.2.1, Type A RCD's
Average trip time	30ms		

PROBLEM	LED	REASON	ACTION
RCD will not reset	OFF	No power to RCD	1. Check supply fuse/circuit breaker. 2. Check incoming power supply to RCD
RCD resets then immediately trips out (power available LED gives a quick flash).	Flashes RED then GREEN	Faulty appliance plugged into RCD or protected circuit.	1. Disconnect all appliances on protected circuit. 2. Reset RCD then test each appliance individually using the RCD until the faulty appliance is discovered. 3. Faulty appliance should be checked by qualified person.
RCD resets then some time later trips out.	RED then GREEN	Faulty appliance with a slow leakage build up plugged into RCD or protected circuit, or cumulative leakage from several appliances combining to exceed rating of outlet.	1. Determine time taken for RCD to cut out. 2. Disconnect all appliances on protected circuit. 3. Reset RCD then test each appliance individually using the RCD for the duration of cut out time until the faulty appliance is discovered. 4. Faulty appliance should be checked by qualified person.
RCD will not trip out when "test" button is pushed.	OFF	No power to RCD.	1. Check supply fuse/circuit breaker. 2. Check incoming power supply to RCD.
RCD will not trip out when "test" button is pushed.	RED	RCD is faulty. Neutral to Earth fault upstream.	1. Have RCD checked by a qualified person and if faulty, return to manufacturer. 2. Have electrical contractor check wiring.

Certification Number:

GMA-523490-EA

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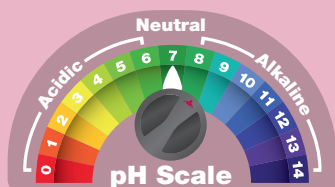
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BUEXSO310
BUEXSO315
BUEXSO320F
BUEXSO320
BUEXSO332
BUEXSO410
BUEXSO420
BUEXSO432
BUEXSO440
BUEXSO450
BUEXSO510
BUEXSO520
BUEXSO532
BUEXSO540
BUEXSO550

See current catalogue for further detail



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PAGE 1 of 2



IP66 Extension Sockets

- Small Single Phase 10A to 20A (250V~).
- Size 1 Single & Three Phase 10A to 20A (250V~ to 500V~).
- Size 2 Single & Three Phase 32A to 50A (250V~ to 500V~).
- 3 Flat Pin, 3 Round Pin, 4 Round Pin, 5 Round Pin.
- 10A, 15A, 20A, 32A, 40A & 50A current ratings.
- Straight body format providing a more traditional design.
- Ribbed Lock ring on Small Single Phase versions for gripping with gloved hands.
- Rear cord entry and cable gland ensuring IP66 rating.
- Internal cable clamp to support electrical connections.
- Size 1 Single and Three Phase suits Smaller to Medium single or three phase loads.
- Size 2 Single and Three Phase suits Medium to Large single or three phase loads.
- Size 1 and Size 2 products have hinged Spring Loaded cover flaps for added safety and to keep dust & water out.
- Small Extension Sockets 10A and 20A accept cables from $\varnothing$ 6-12mm
 Size 1 Extension Sockets 10A and 20A accept cables from $\varnothing$ 12-16mm
 Size 2 Extension Sockets 32A, 40A and 50A accept cables from $\varnothing$ 11-16mm



Pin & Volt	*Cat No. Extension Sockets	Current Rating (A)	Pin Config	Pin Config Code (Table 1)	Terminal Size	Maximum Conductor Size (mm ²)	Minimum Cable Diameter (mm ²)	Maximum Cable Diameter (mm ²)	Gland Nut Thread (mm)	Matching Plug Straight / Angled	Matching Appliance Inlet
3 Pin 250V~	BUEXSO310	10	3 Flat	A	2.4 x 4.5	6	6	12	M20 x 1.5	BUP310	BUAI310
	BUEXSO315	15	3 Flat	B	2.4 x 4.5	6	6	12	M20 x 1.5	BUP315	BUAI315
	BUEXSO320F	20	3 Flat	E	2.4 x 4.5	6	6	12	M20 x 1.5	BUP320F	
	BUEXSO320	20	3 Round	G	$\varnothing$ 4.6	6	12	16	M25 x 1.5	BUP320/ BUPA320	BUAI320
	BUEXSO332	32	3 Round	H	$\varnothing$ 6	16	11	16	M37 x 1.5	BUP332/ BUPA332	BUAI332
4 Pin 500V~	BUEXSO410	10	4 Round	I	$\varnothing$ 4.6	6	12	16	M25 x 1.5	BUP410/ BUPA410	BUAI410
	BUEXSO420	20	4 Round	J	$\varnothing$ 4.6	6	12	16	M25 x 1.5	BUP420/ BUPA420	BUAI420
	BUEXSO432	32	4 Round	K	$\varnothing$ 6	16	11	16	M37 x 1.5	BUP432/ BUPA432	BUAI432
	BUEXSO440	40	4 Round	L	$\varnothing$ 6	16	11	16	M37 x 1.5	BUP440/ BUPA440	BUAI440
	BUEXSO450	50	4 Round	M	$\varnothing$ 6	16	11	16	M37 x 1.5	BUP450/ BUPA450	BUAI450
5 Pin 500V~	BUEXSO510	10	5 Round	N	$\varnothing$ 4.6	6	12	16	M25 x 1.5	BUP510/ BUPA510	BUAI510
	BUEXSO520	20	5 Round	O	$\varnothing$ 4.6	6	12	16	M25 x 1.5	BUP520/ BUPA520	BUAI520
	BUEXSO532	32	5 Round	P	$\varnothing$ 6	16	11	16	M37 x 1.5	BUP532/ BUPA532	BUAI532
	BUEXSO540	40	5 Round	Q	$\varnothing$ 6	16	11	16	M37 x 1.5	BUP540/ BUPA540	BUAI540
	BUEXSO550	50	5 Round	R	$\varnothing$ 6	16	11	16	M37 x 1.5	BUP550/ BUPA550	BUAI550

All products accept Plug (BUP/BUPA), locking rings 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.

Certification Number:

BUESXO320, BUESXO332, BUESXO410, BUESXO420, BUESXO432, BUESXO440 BUESXO450, BUESXO510, BUESXO520, BUESXO532, BUESXO540 BUESXO550: GMA-527928
 BUEXSO310, BUEXSO315, BUEXSO320F: GMA-527862-EA

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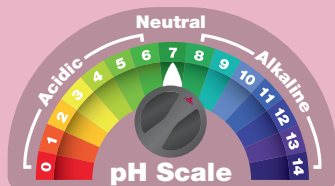
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BUEXSO310
BUEXSO315
BUEXSO320F
BUEXSO320
BUEXSO332
BUEXSO410
BUEXSO420
BUEXSO432
BUEXSO440
BUEXSO450
BUEXSO510
BUEXSO520
BUEXSO532
BUEXSO540
BUEXSO550

See current catalogue for further detail



Cleaning Guide:

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It is important to ensure that switches are turned off before cleaning.

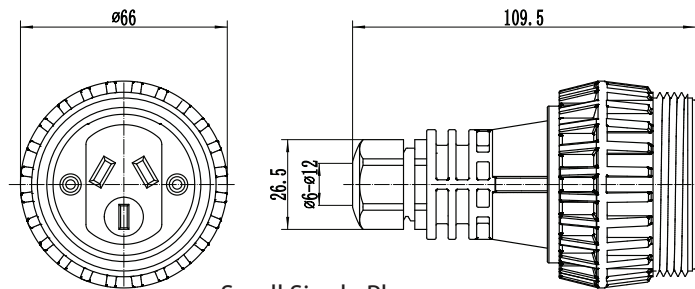
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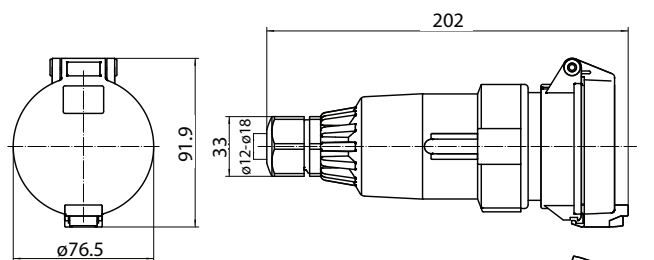
PAGE 2 of 2



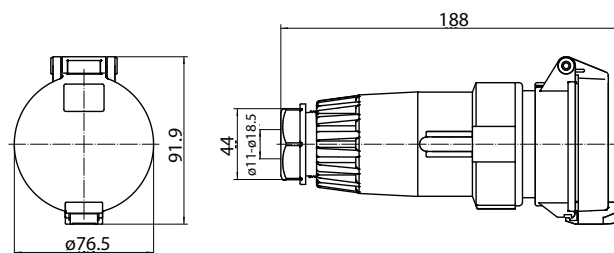
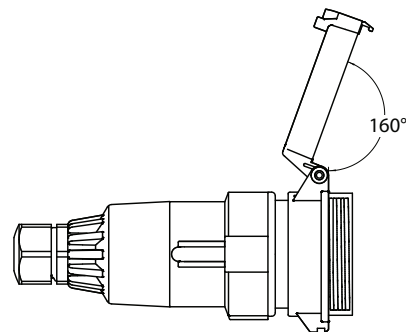
IP66 Extension Sockets



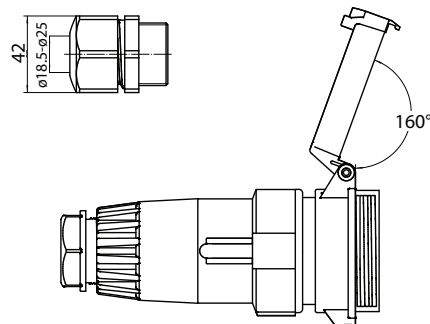
Small Single Phase



Size 1 Single & Three Phase



Size 2 Single & Three Phase

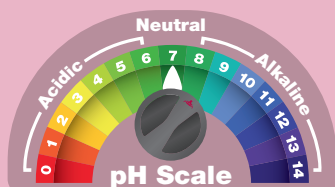


BUEXSOA320
BUEXSOA332
BUEXSOA410
BUEXSOA420
BUEXSOA432
BUEXSOA440
BUEXSOA450
BUEXSOA510
BUEXSOA520
BUEXSOA532
BUEXSOA540
BUEXSOA550

See current catalogue for further detail

IP66 Extension Angled Socket

- Size 1 Single & Three Phase 10A to 20A (250V~ to 500V~).
- Size 2 Single & Three Phase 32A to 50A (250V~ to 500V~).
- 3 Round Pin, 4 Round Pin, 5 Round Pin.
- 10A, 15A, 20A, 32A, 40A & 50A current ratings.
- Ribbed Lock ring on Small Single Phase versions for gripping with gloved hands.
- Rear cord entry and cable gland ensuring IP66 rating.
- Internal cable clamp to support electrical connections.
- Size 1 Single and Three Phase suits Smaller to Medium single or three phase loads.
- Size 2 Single and Three Phase suits Medium to Large single or three phase loads.
- Size 1 and Size 2 products have hinged Spring Loaded cover flaps for added safety and to keep dust & water out.
- Small Extension Sockets 10A and 20A accept cables from ø 6-12mm
 Size 1 Extension Sockets 10A and 20A accept cables from ø 12-16mm
 Size 2 Extension Sockets 32A, 40A and 50A accept cables from ø 11-16mm



Cleaning Guide:

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Do not use harsh chemical cleaners as these can break down the plastic and cause it to crack.

PAGE 1 of 2



Pin & Volt	*Cat No. Extension Sockets	Current Rating (A)	Pin Config	Pin Config Code (Table 1)	Terminal Size	Maximum Conductor Size (mm ²)	Minimum Cable Diameter (mm ²)	Maximum Cable Diameter (mm ²)	Gland Nut Thread (mm)	Matching Plug Straight / Angled	Matching Appliance Inlet
3 Pin 250V~	BUEXSOA320	20	3 Round	G	ø4.6	6	12	16	M25 x 1.5	BUP320/ BUPA320	BUAI320
	BUEXSOA332	32	3 Round	H	ø6	16	11	16	M37 x 1.5	BUP332/ BUPA332	BUAI332
4 Pin 500V~	BUEXSOA410	10	4 Round	I	ø4.6	6	12	16	M25 x 1.5	BUP410/ BUPA410	BUAI410
	BUEXSOA420	20	4 Round	J	ø4.6	6	12	16	M25 x 1.5	BUP420/ BUPA420	BUAI420
	BUEXSOA432	32	4 Round	K	ø 6	16	11	16	M37 x 1.5	BUP432/ BUPA432	BUAI432
	BUEXSOA440	40	4 Round	L	ø 6	16	11	16	M37 x 1.5	BUP440/ BUPA440	BUAI440
	BUEXSOA450	50	4 Round	M	ø 6	16	11	16	M37 x 1.5	BUP450/ BUPA450	BUAI450
5 Pin 500V~	BUEXSOA510	10	5 Round	N	ø4.6	6	12	16	M25 x 1.5	BUP510/ BUPA510	BUAI510
	BUEXSOA520	20	5 Round	O	ø4.6	6	12	16	M25 x 1.5	BUP520/ BUPA520	BUAI520
	BUEXSOA532	32	5 Round	P	ø 6	16	11	16	M37 x 1.5	BUP532/ BUPA532	BUAI532
	BUEXSOA540	40	5 Round	Q	ø 6	16	11	16	M37 x 1.5	BUP540/ BUPA540	BUAI540
	BUEXSOA550	50	5 Round	R	ø 6	16	11	16	M37 x 1.5	BUP550/ BUPA550	BUAI550

Certification Number:

BUESXOA320, BUESXOA332, BUESXOA410, BUESXOA420, BUESXOA432, BUESXOA440 BUESXOA450, BUESXOA510, BUESXOA520, BUESXOA532, BUESXOA540 BUESXOA550: GMA-527928

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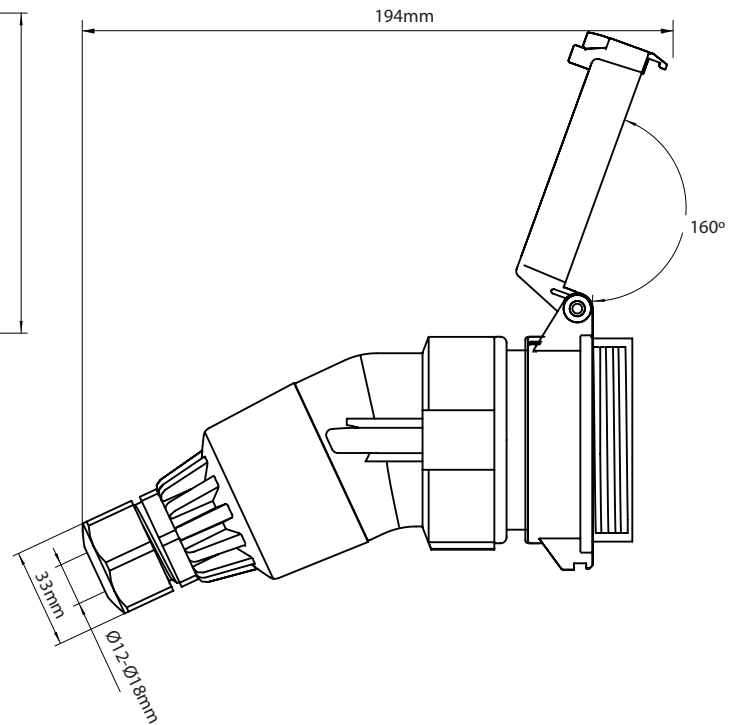
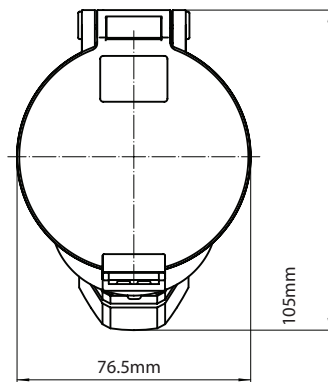
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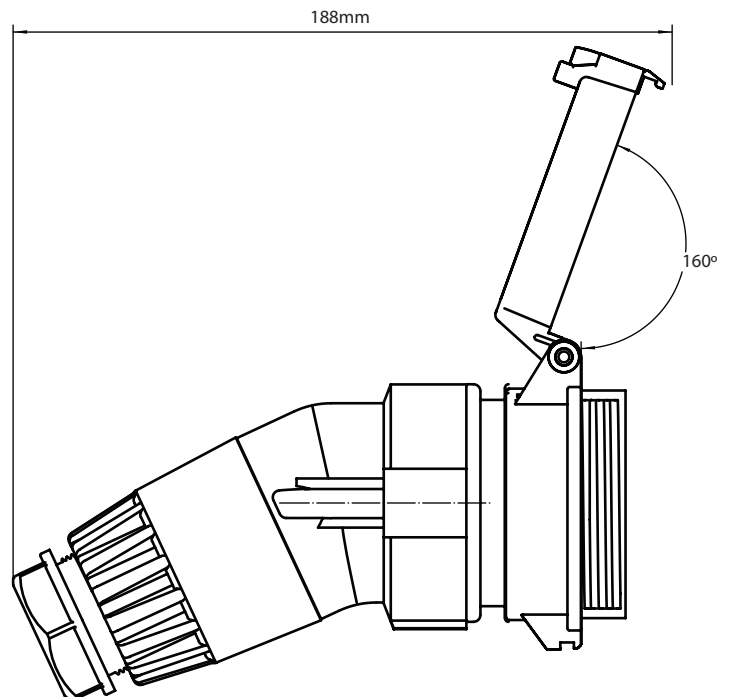
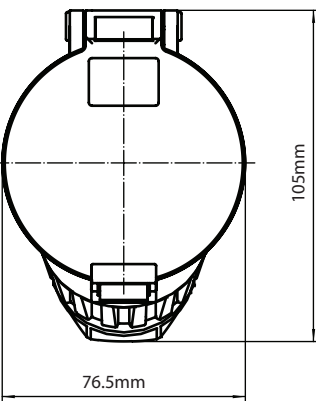
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BUEXSOA332
BUEXSOA410
BUEXSOA420
BUEXSOA432
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BUEXSOA532
BUEXSOA540
BUEXSOA550

See current catalogue for further detail

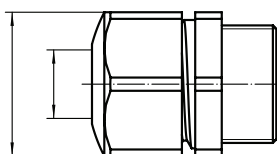
IP66 Extension Angled Sockets



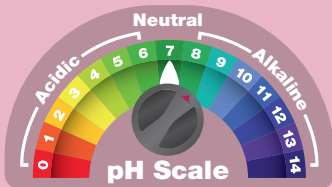
Size 1 Single &
Three Phase



Size 2 Single &
Three Phase



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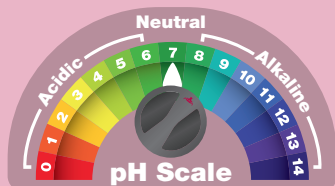
Do not use harsh chemical cleaners as these can break down the plastic and cause it to crack.

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BUP310
BUP310L
BUP310RP
BUP315
BUP320F
BUP320
BUP332
BUP410
BUP420
BUP432
BUP440
BUP450
BUP510
BUP520
BUP532
BUP540
BUP550
BUPA320
BUPA332
BUPA410
BUPA420
BUPA432
BUPA440
BUPA450
BUPA510
BUPA520
BUPA532
BUPA540
BUPA550

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PAGE 1 of 2

IP66 Straight & Angled Plugs

- Small Single Phase 10A to 20A (250V~)
- Size 1 Single & Three Phase 10A to 20A (250V~ to 500V~)
- Size 2 Single & Three Phase 32A to 50A (250V~ to 500V~)
- 3 Flat Pin, 3 Round Pin, 4 Round Pin, 5 Round Pin.
- 10A, 15A, 20A, 32A, 40A & 50A current ratings.
- Straight body format providing a more traditional design.
- Angled format when space is limited, or to reduce plug & cable protrusion as cable is angled downwards.
- Ribbed Lock ring for secure fitment & gripping with gloved hands.
- Rear cord entry and cable gland ensuring IP66 rating.
- Insulated pins in accordance to AS/NZS3112 (BUP310, BUP315, BUP320F).
- Internal cable clamp to support electrical connections.
- Size 1 Single and Three Phase suits Smaller to Medium Loads.
- Size 2 Single and Three Phase suits Medium to Large loads.
- Small Extension Sockets 10A and 20A accept cables from $\varnothing$ 6 - 12mm
- Size 1 Extension Sockets 10A and 20A accept cables from $\varnothing$ 12 - 16mm
- Size 2 Extension Sockets 32A, 40A and 50A accept cables from $\varnothing$ 11 - 16mm



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 ²)	Minimum Cable Diameter (mm ²)	Maximum Cable Diameter (mm ²)	Gland Nut Thread (mm)	Matching Socket/Combination
3 Pin 250V~	BUP310	N/A	10	3 Flat	A	3.0	1.5HD	6	12	M20 x 1.5	BUSO310/BUC310
	BUP310L	N/A	10	2 Flat 1 Round	C	3.0	1.5HD	6	12	M20 x 1.5	BUSO310L/BUC310L
	BUP310RP	N/A	10	3 Round	F	3.0	1.5HD	6	12	M20 x 1.5	BUSO310RP
	BUP315	N/A	15	3 Flat	B	3.0	1.5HD	6	12	M20 x 1.5	BUSO315/BUC315
	BUP320F	N/A	20	3 Flat	E	3.0	1.5HD	6	12	M20 x 1.5	BUSO320F/BUC320F
	BUP320	BUPA320	20	3 Round	G	4.1	10	12	16	M25 x 1.5	BUSO320/BUC320
4 Pin 500V~	BUP332	BUPA332	32	3 Round	H	4.1	10	11	16	M37 x 1.5	BUSO332/BUC332
	BUP410	BUPA410	10	4 Round	I	4.1	10	12	16	M25 x 1.5	BUSO410/BUC410
	BUP420	BUPA420	20	4 Round	J	4.1	10	12	16	M25 x 1.5	BUSO420/BUC420
	BUP432	BUPA432	32	4 Round	K	4.1	10	11	16	M37 x 1.5	BUSO432/BUC432
	BUP440	BUPA440	40	4 Round	L	4.1	10	11	16	M37 x 1.5	BUSO440/BUC440
5 Pin 500V~	BUP450	BUPA450	50	4 Round	M	4.1	10	11	16	M37 x 1.5	BUSO450/BUC450
	BUP510	BUPA510	10	5 Round	N	4.1	10	12	16	M25 x 1.5	BUSO510/BUC510
	BUP520	BUPA520	20	5 Round	O	4.1	10	12	16	M25 x 1.5	BUSO520/BUC520
	BUP532	BUPA532	32	5 Round	P	4.1	10	11	16	M37 x 1.5	BUSO532/ BUC532
	BUP540	BUPA540	40	5 Round	Q	4.1	10	11	16	M37 x 1.5	BUSO540/ BUC540
	BUP550	BUPA550	50	5 Round	R	4.1	10	11	16	M37 x 1.5	BUSO550/ BUC550

Certification Number:

BUP310, BUP315, BUP320F: GMA-520081-EA
BUP320, BUP332, BUP410, BUP420, BUP432, BUP440, BUP440, BUP510, BUP520, BUP532, BUP540, BUP540, BUPA320, BUPA332, BUPA410, BUPA420, BUPA432, BUPA440, BUPA440, BUPA510, BUPA520, BUPA532, BUPA540, BUPA540: GMA-527969

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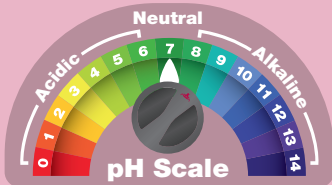
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BUP310
 BUP310L
 BUP310RP
 BUP315
 BUP320F
 BUP320
 BUP332
 BUP410
 BUP420
 BUP432
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 BUP450
 BUP510
 BUP520
 BUP532
 BUP540
 BUP550
 BUPA320
 BUPA332
 BUPA410
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See current catalogue for further detail



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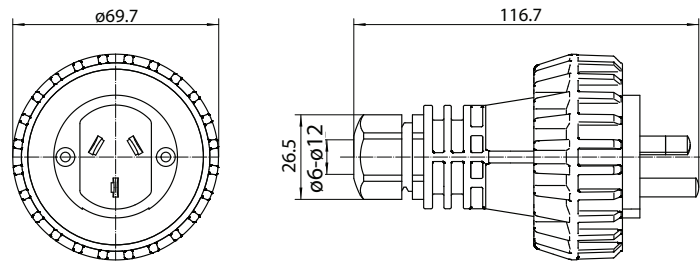
Do not use any cleaning sprays - only wipe down with damp cloth or rub with dry cloth. (Do not use an abrasive cloth as it may scratch the plastic).

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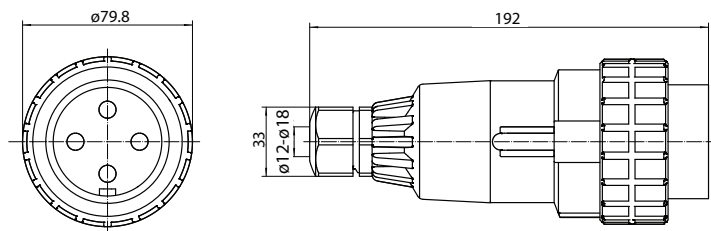
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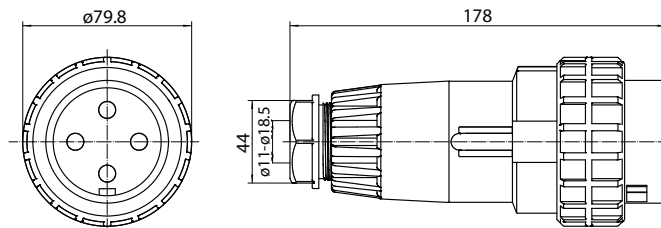
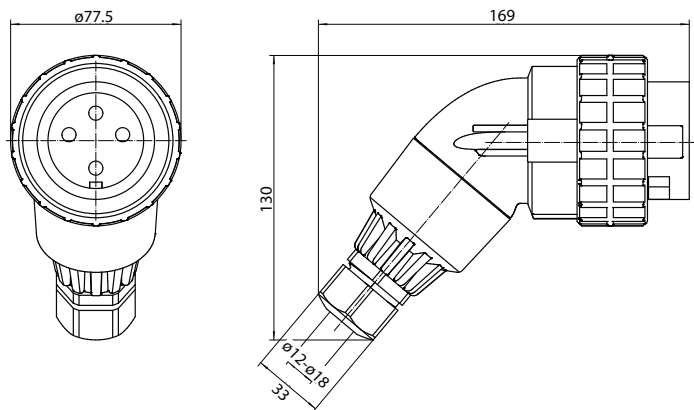
IP66 Straight & Angled Plugs



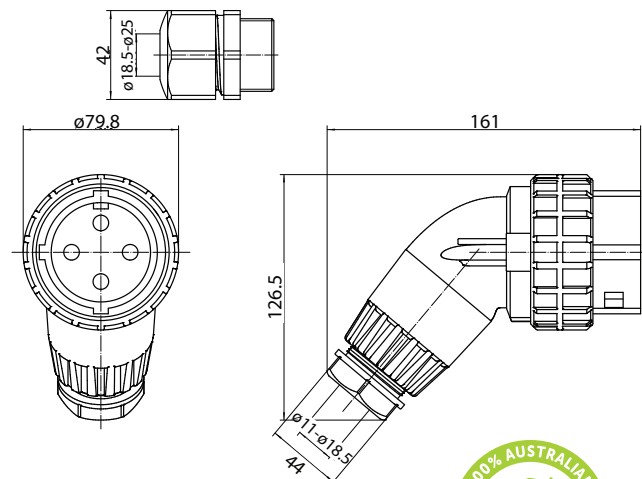
Small Single Phase



Size 1 Single & Three Phase



Size 2 Single & Three Phase



BUBB1GS
BUBB1G
BUBB1GD
BUBB2GS
BUBB2G
BUBB2GD
BUBB3G
BUBB4G
BUBB4GV
BUBB6G
BUBRIDGE
BUBRIDGED

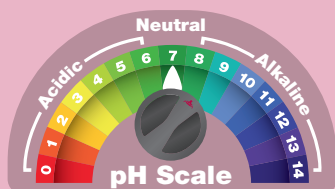
See current catalogue for further detail

Enclosures

- Manufactured in industrial grade resins
- PVC Back Boxes and Conduit Plugs.
- Polycarbonate Lids for High Impact Strength.
- UV Resistance.
- Good level of Chemical Resistance.
- Back Boxes and Junction Boxes supplied with Reducers and Screw Caps.
- Compatible with Buffalo previous & current ranges including:
- BUL Lids, BUC Combinations, BUSO Sockets, BUSW Switches & BUAI Appliance Inlets.
- Grey colour.
- Back Boxes 1, 2, 3, 4 & 6 Gang
- Shallow, Standard & Deep Boxes in 1 & 2 Gang
- Bridges provided on 2, 3, 4 & 6 Gangs, used for cable management and to aid IP rating.
- Ample Conduit Entries & Cut-Outs.
- Installer tip, cover all mounting screws with supplied mounting screw caps & sealant (not supplied), likewise all conduit entries should be tightened & sealed with sealant.



Cat No.	Description	Height (mm)	Width (mm)	Length (mm)	Conduit Entries	Rear Cut-Outs dia.
BUBB1GS	Enclosure Back Box Shallow 1 Gang	37	101	101	2 x 20mm 1 x 25mm	1 x 20mm 1 x 25mm
BUBB1G	Enclosure Back Box 1 Gang	62	101	101	2 x 25mm 1 x 32mm	1 x 32mm
BUBB2GS	Enclosure Back Box Shallow 2 Gang	38	101	198	2 x 20mm 1 x 25mm	2 x 20mm 2 x 25mm
BUBB2G	Enclosure Back Box 2 Gang	63	101	198	2 x 25mm 1 x 32mm	1 x 25mm 1 x 32mm
BUBB3G	Enclosure Back Box 3 Gang	63	101	298	2 x 25mm 1 x 32mm	2 x 25mm 1 x 32mm
BUBB4G	Enclosure Back Box 4 Gang	63	198	198	2 x 25mm 2 x 32mm	2 x 25mm 1 x 32mm 1 x 40mm
BUBB4GV	Enclosure Back Box 4 Gang Vertical	63	101	395	2 x 25mm 1 x 32mm	2 x 25mm 1 x 32mm 1 x 40mm
BUBB6G	Enclosure Back Box 6 Gang	63	198	298	2 x 25mm 2 x 32mm	2 x 25mm 2 x 32mm 2 x 40mm
BUBRIDGE	Bridge for BUBB Back Box Range					



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BUBRIDGE



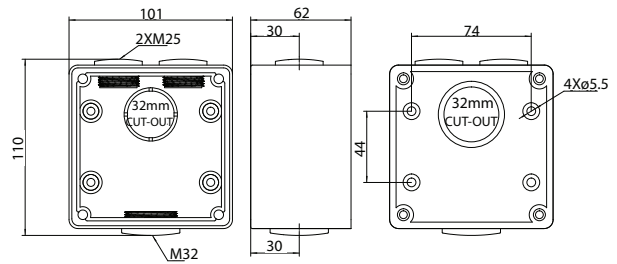
BUBRIDGED

BUBB1GS BUBB1G BUBB1GD BUBB2GS BUBB2G

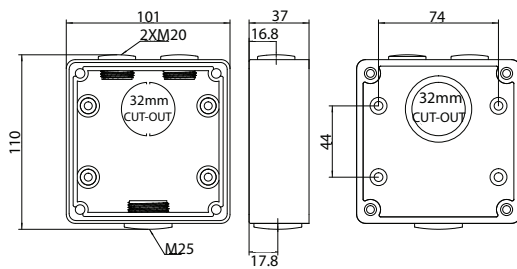
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Enclosures

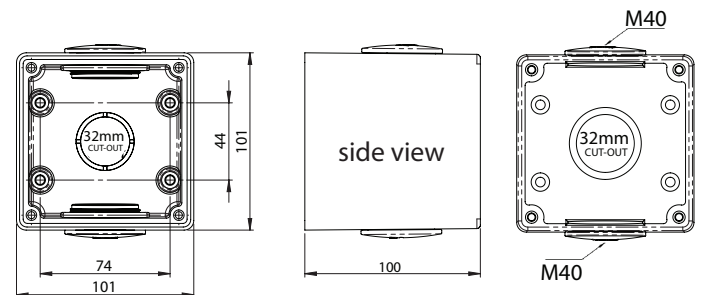
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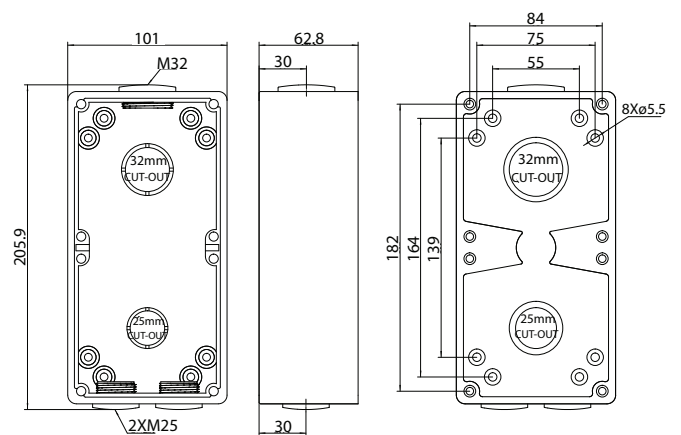
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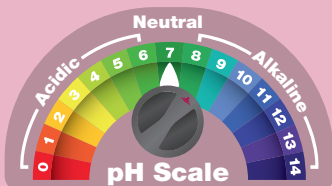
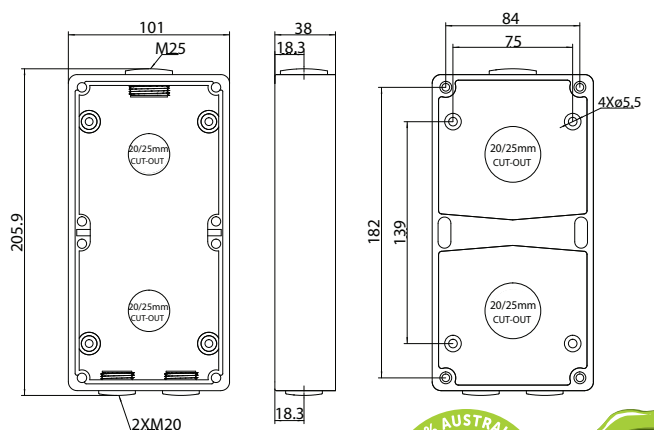
BUBB1GD



BUBB2G



BUBB2GS



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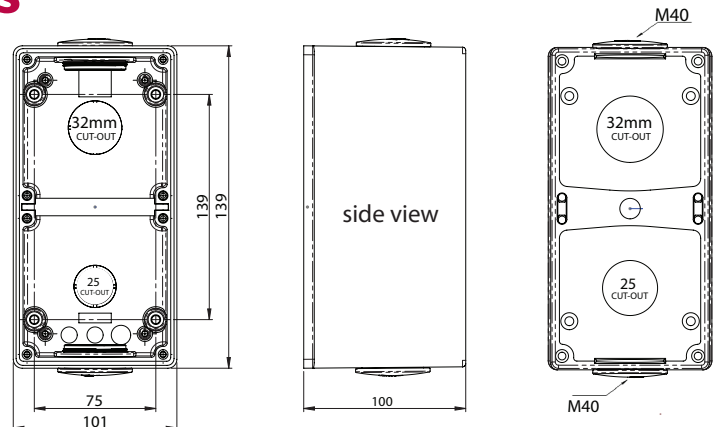


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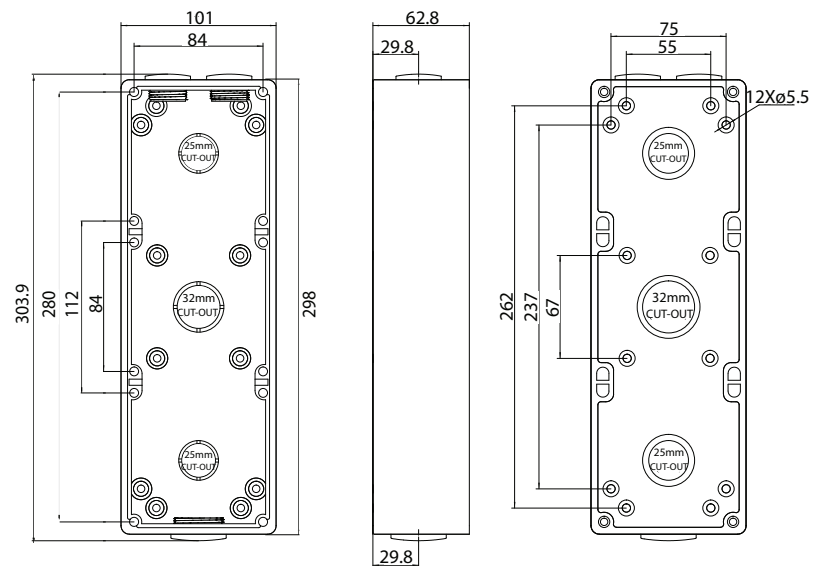
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Enclosures

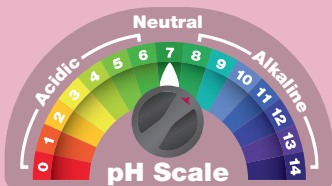
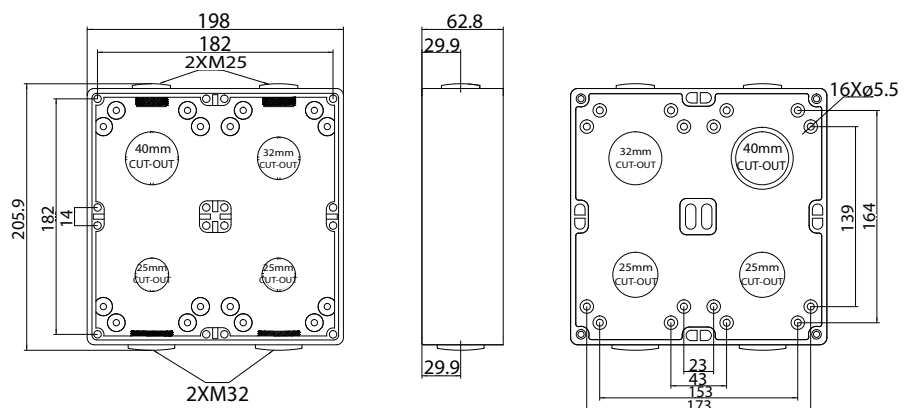
BUBB2GD



BUBB3G



BUBB4G



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PAGE 3 of 4

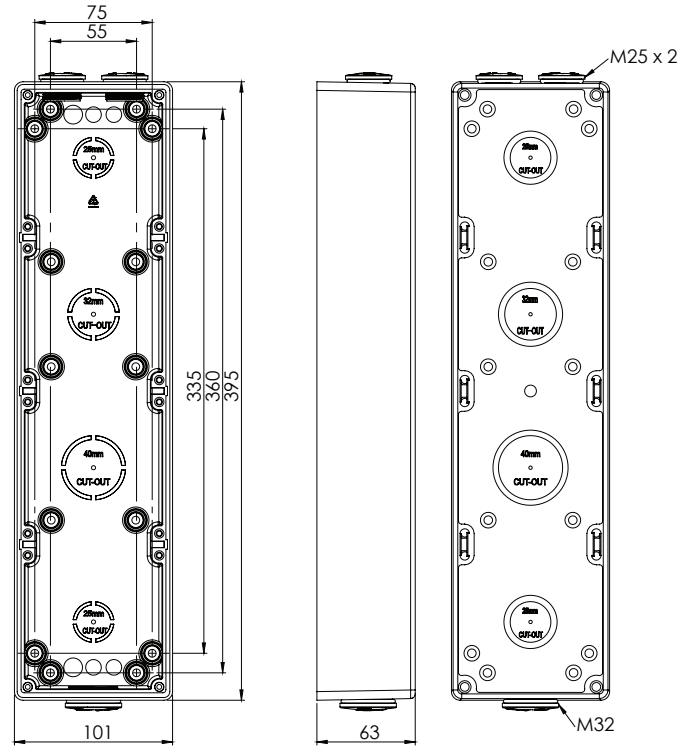


BUBB4GV BUBB6G

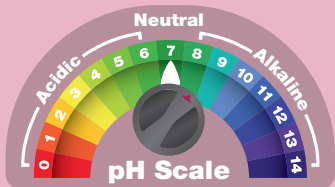
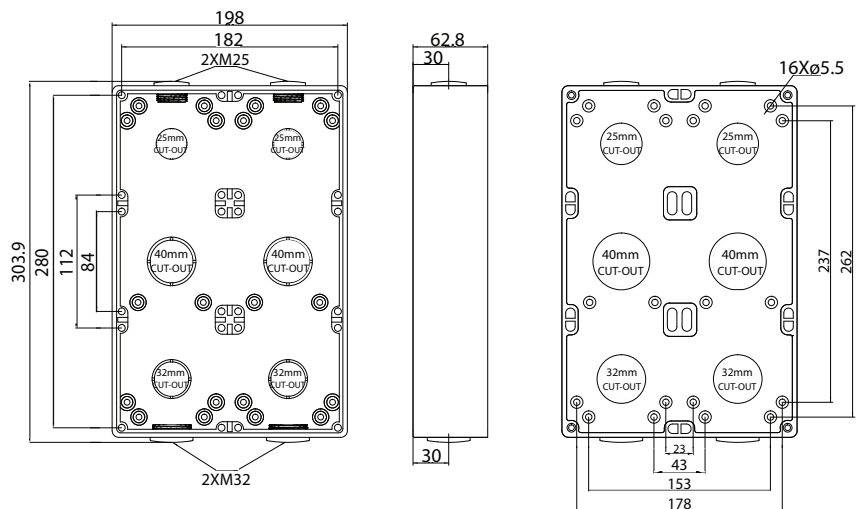
See current catalogue for further detail

Enclosures

BUBB4GV



BUBB6G



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PAGE 4 of 4



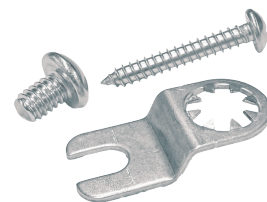
BUMF

See current catalogue for further detail

Buffalo Stainless Steel Mounting Feet

The BUMF part number refers to the external mounting feet for

the Buffalo BUBB Series enclosures. In the pack will be a mounting foot, screw for threading to the rear of the box corners and a self tapping screw for fastening to timber or wall plugs. The installer may supply their screws for fastening to the surfaces, but the provided screw should be use to mount the foot to the corner cored holes of the back box.



Advantages of BUMF mounting feet:

Improved cleaning: Makes it easier to clean around the enclosure.

Standoff: Creates a space between the enclosure and the mounting surface.

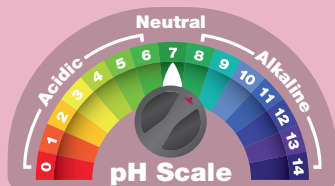
Water ingress prevention: Helps prevent water from entering the enclosure.

Compatible with Buffalo Series: Specifically designed for use with Clipsal BUBB Series enclosures.

These feet are designed to prevent water ingress by creating a standoff from the wall, which also facilitates easier cleaning.

Installation Instructions for BUMF Mounting Feet:

1. Preparation: Ensure the mounting surface is clean and dry.
2. Attach to Enclosure: The BUMF feet are designed to be attached to the enclosure, providing a space between the enclosure and the mounting surface.
3. Mount the Enclosure: Secure the enclosure with the attached BUMF feet to the desired location.
4. Consider Torque: The tightening torque for the mounting feet is slightly higher than standard Buffalo Series products and should be around 0.8Nm, slightly tighter than normal hand tightening.
5. Tighten all threaded entry plugs and glands with O-rings to ensure sealed
6. Install Caps: Install all provided caps, preferably cemented in place with sealer or PVC glue if any holes have been made in the rear of the box. (If mounting feet are in use then this is less likely)
7. Ensure Cover Screw Caps are Installed: Make sure all cover screw caps are installed.



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Catalogue Number	Description
BUMF	Mounting Feet Kit for Buffalo Enclosures 304 Stainless Steel

*The Clipsal Brand and the associated product codes are Trademarks of Schneider Electric (Australia) Pty Ltd.

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BUL1 BUL2

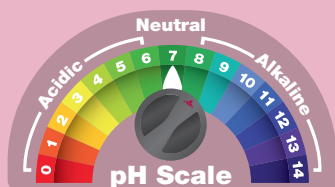
See current catalogue for further detail

Enclosure Lids

- Manufactured in industrial grade resins providing:
- Polycarbonate Lids for High Impact Strength.
- UV Resistance.
- Good level of Chemical Resistance.
- Compatible with Buffalo previous & current ranges.
- Grey colour.
- Includes sealing gaskets, cover fixing screws and cover screw caps (BUCAP9)
- Installer Tip: Fix cover screws to maximum torque levels of 0.53Nm.



Cat No.	Description	Height (mm)	Width (mm)	Length (mm)
BUL1	Lid for 1 Gang Enclosures	28	95	95
BUL2	Lid for 2 Gang Enclosures	28	95	193
BUCAP9	Cover Screw Caps Grey			



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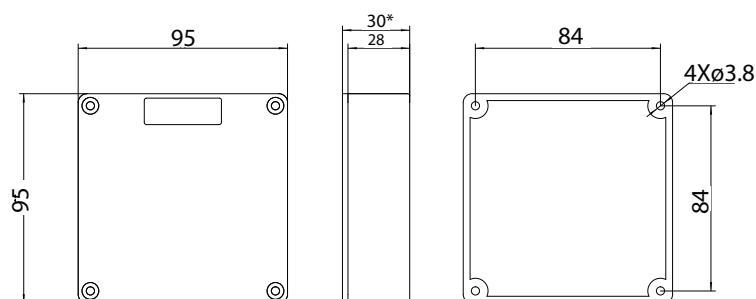
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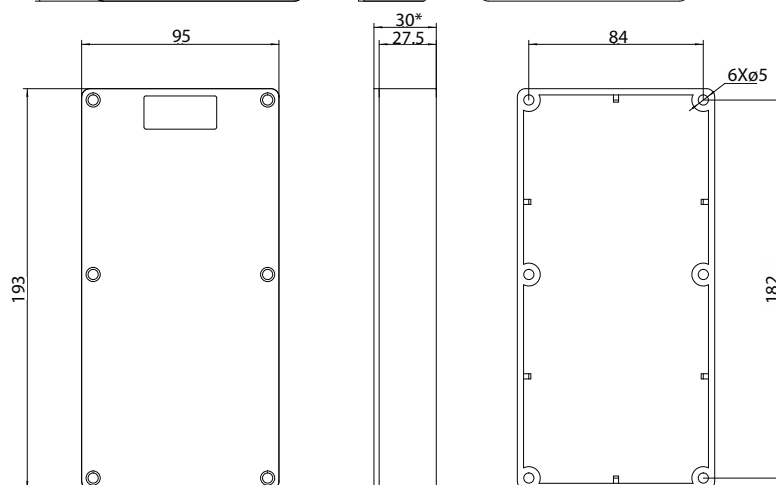
Do not use harsh chemical cleaners as these can break down the plastic and cause it to crack.



BUL1



BUL2



*includes gasket

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BUJB1 BUJB2

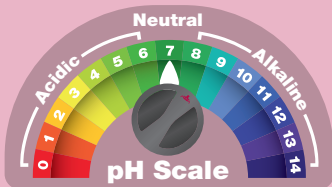
See current catalogue for further detail

IP66 Junction Boxes

- Manufactured in industrial grade resins providing:
- Polycarbonate Lids for High Impact Strength.
- UV Resistance.
- Good level of Chemical Resistance.
- Back Boxes & Junction Boxes supplied with Reducers and Screw Caps.
- Compatible with Buffalo previous & current ranges.
- Grey colour.
- Includes 5 connectors (3 Phase, Neutral & Earth).
- Includes cover sealing gasket + fixing screws.
- Includes cover screw caps (BUCAP9).
- Connectors accept 3 x 6mm² or 4 x 2.5mm² cables.
- Installer Tip: Fix cover screws to maximum torque levels of 0.53Nm.



Cat No.	Description	Height (mm)	Width (mm)	Length (mm)	Conduit Entries	Rear Cut-Outs dia.
BUJB1	Junction Box IP66 1 Gang, supplied with connectors	91	101	101	2 x 20mm 1 x 25mm	1 x 32mm
BUJB2	Junction Box IP66 2 Gang, supplied with connectors	91	101	198	2 x 25mm 1 x 32mm	1 x 25mm 1 x 32mm



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PAGE 1 of 2



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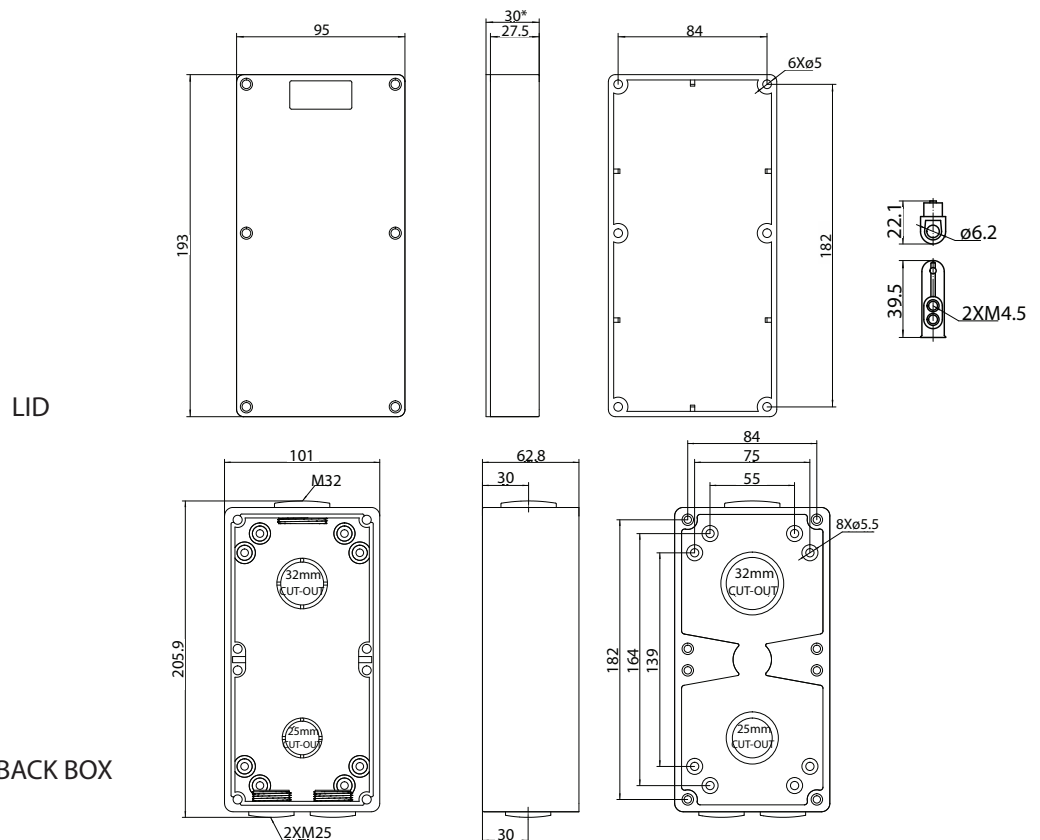
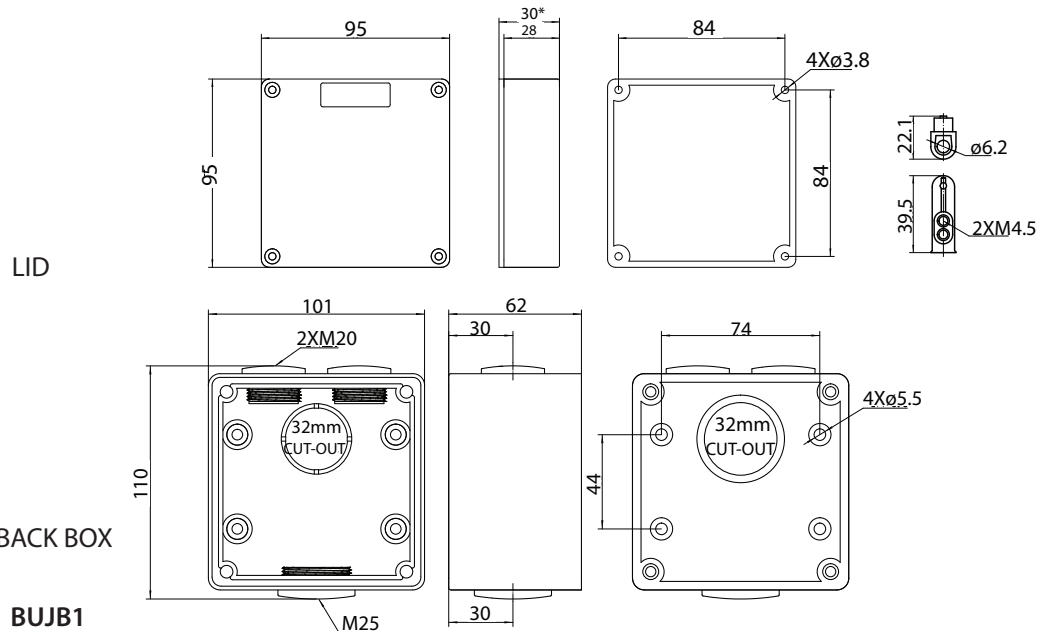
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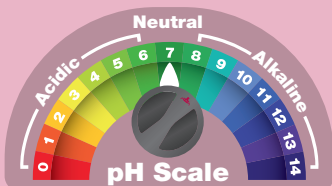
BUJB1 BUJB2

See current catalogue for further detail

IP66 Junction Boxes



*includes gasket



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PAGE 2 of 2



BU4DIN **BU4IDNLED**

BU4DINKIT

See current catalogue for further detail

IP66 DIN 4 Pole Enclosures

Buffalo DIN Rail Accessory Mounting Enclosures provide 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, they are manufactured from robust, UV and good chemical resistant material to provide long reliable life in the dust and wet.

The BU4DINLED features a 250V~ LED inbuilt into the cover, which has long cables with crimped ends to allow it to be wired for power available into the module - or outgoing power available - depending on the application.

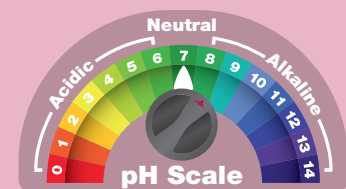
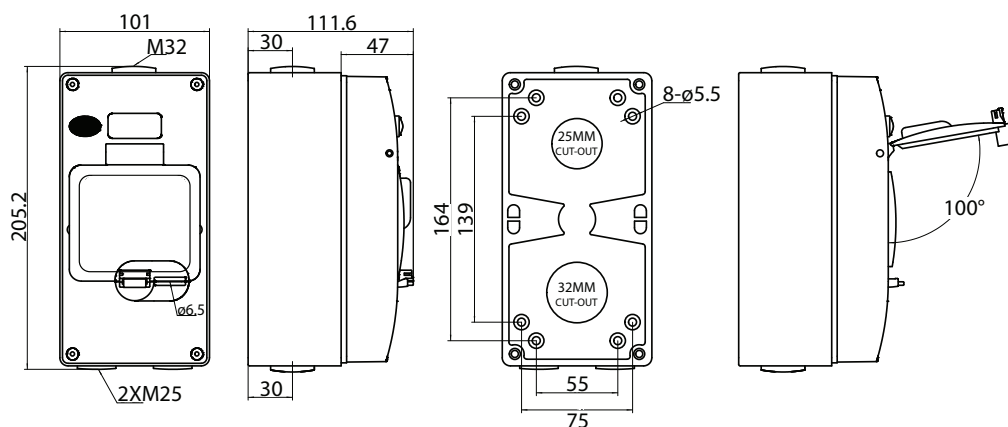
Cable length is suitable for wiring below the DIN rail and can reach easily into the lower section of switch gear installed into the enclosure.

BU4DIN, BU4DINLED, BU4DINLE and BU4DINLED comes with BU4DINKIT in the box.



Cat No.	Description	Poles	Enclosure Included	Conduit Entries
BU4DIN	Enclosure DIN 4 Pole IP66 Grey	4	BUBB2G	2 x 25mm 1 x 32mm
BU4DINLED	Enclosure DIN 4 Pole IP66 Grey with LED Indicator	4	BUBB2G	2 x 25mm 1 x 32mm
BU4DINLE	Enclosure DIN 4 Pole IP66 Grey Less Enclosure	4	N/A	N/A
BU4DINLEDLE	Enclosure DIN 4 Pole IP66 Grey with LED Less Enclosure	4	N/A	N/A
BU4DINKIT	DIN Rail Assembly Kit 4 Pole Grey	4	N/A	N/A

When ordering LESS ENCLOSURE add "LE" at end of catalogue number, ie "BU2DINLE"



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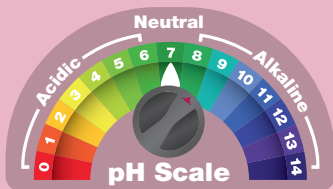
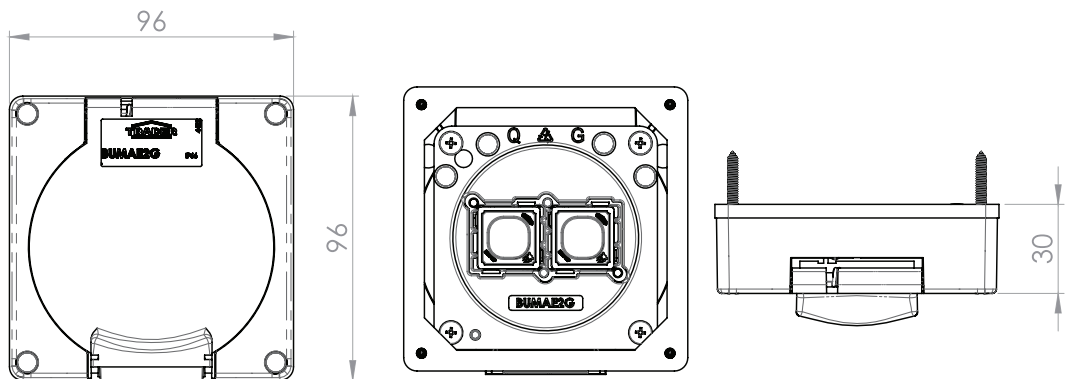


BUMAE2GLE

See current catalogue for further detail

2 Gang Aperture Enclosure, 1 Gang Cover

- IP66 2 Aperture adaptor plate to suit clip in mechanisms from the TRADER Meerkat range or other mechanisms or data points using the standard clipping system.
- The BUMAE2G Series adaptable enclosure provides an IP66 rating for the Meerkat series mechanism ranges including switches, neon's, data, USB etc. The Less Enclosure (LE) version can easily be adapted with other Buffalo series multi-gang enclosures where the need for more than two mechanisms are required.
- The second aperture can be plugged using the blanking plug available in the parts pack if only one aperture is in use, or an off the shelf plug can be fitted to black the unused aperture.
- Plain blank plug comes with unit.
- IP66 is only maintained when the clear flap is closed.



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Catalogue Number	Description
BUMAE2GLE	Enclosure Mech Aperture 2 Gang IP66 Less Enclosure

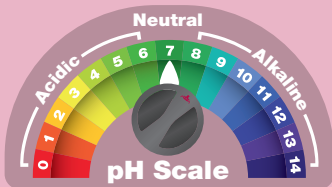
Warning: the aperture sizes suit MESW series. It is suggested not to install the MESWC variant where the dolly profile suits Leopard, Snow Leopard and Clouded Leopard.

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BUSOFA

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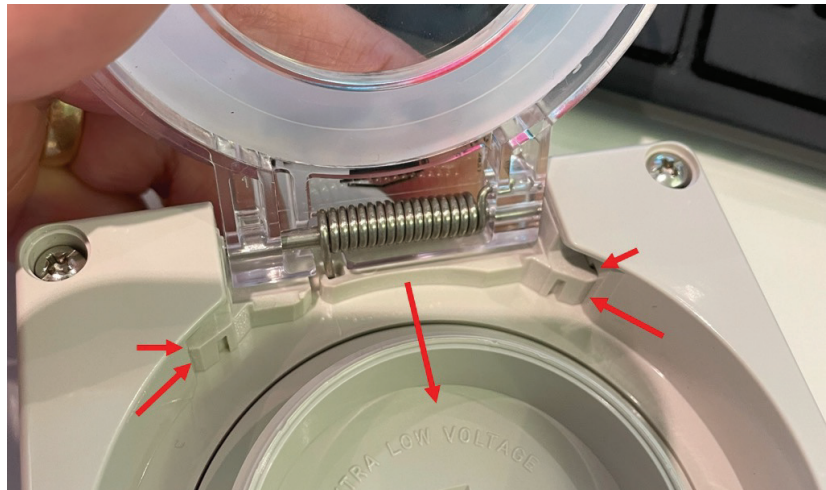
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Buffalo Socket Series Flap Assembly

- Available as a replacement assembly for installations where rough handling has caused damage to the socket flap and compromising the IP rating.
- Existing flap can be removed through careful unclipping using a small flat blade screwdriver where the clips are shown with the 2 red arrows levering inwards, then as the clips are disengaged, slide the assembly cassette down towards the socket center in the direction of the longer red arrow. Careful not to get fingers in the way as the spring snaps shut.
- The new assembly slotted into place in the location of the sample that was removed and clipped into position.



Catalogue Number	Description
BUSOFA	Socket series flap assembly

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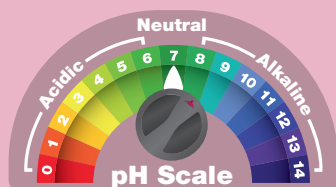


BUAICAP

See current catalogue for further detail

Buffalo Appliance Inlet Cap

- Available as a replacement cap for installations where rough handling has caused damage to the appliance inlet caps and compromising the IP rating.



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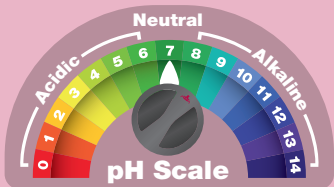
Catalogue Number	Description
BUAICAP	Appliance Inlet Cap for Buffalo Range

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BUSPOK

See current catalogue for further detail



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Pendant Kit Stainless Steel for Switched Outlets

Installation INSTRUCTIONS

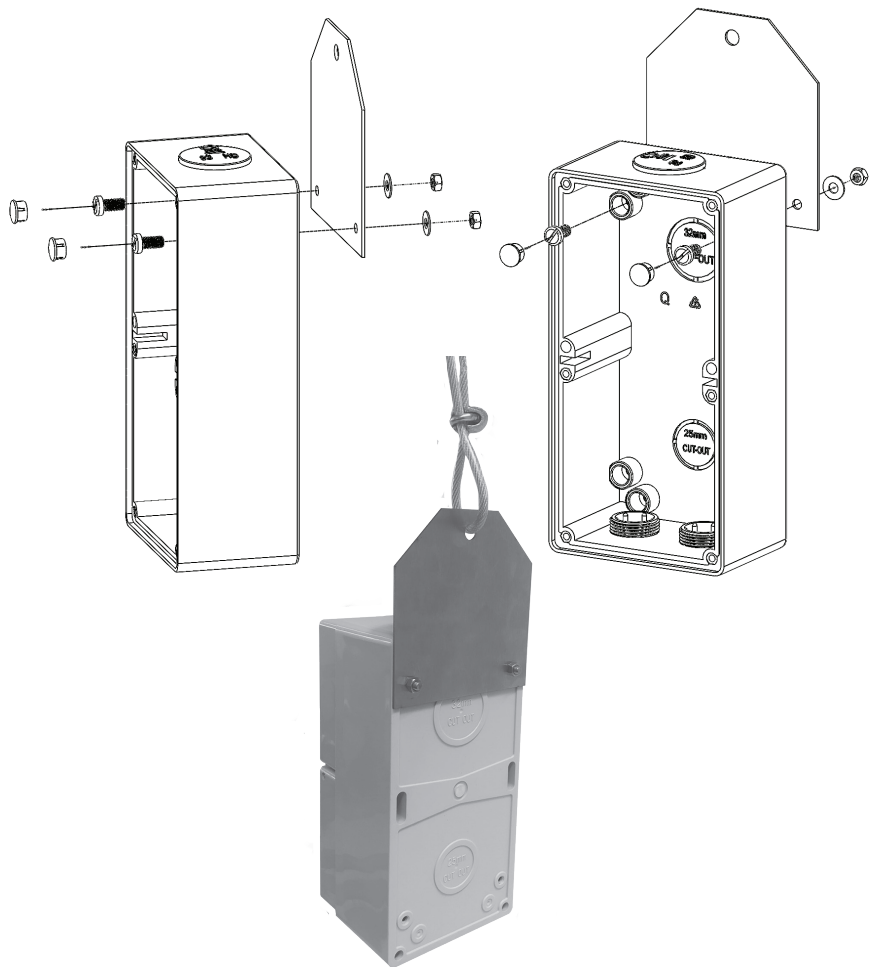
Drill out the rear of the box using 5mm drill in the two mounting points shown in the images to align with the stamped BUSPOK bracket.

Align BUSPOK bracket to the box and insert the 5mm pan head screws and add washer and nut to the other end and fasten until tight.

Seal over screw or apply the screw cap - seal with silicone where appropriate.

Once complete the assembly can have other Buffalo components added and cable and jack chain connected.

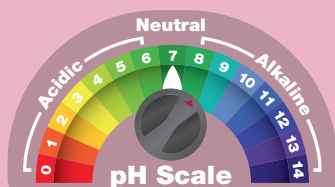
An alternative assembly arrangement can have a back box suspended on either side of the BUSPOK bracket.



Catalogue Number	Description
BUSPOK	Pendant Kit Stainless Steel for Switched Outlets Grey

BUPOA22 BUPOA50

See current catalogue for further detail



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Pendant Outlet Adaption Kits

- Pendant Outlets Adaption Kits allow the TRADER Buffalo Cord extension sockets to convert to pendant outlets and provide strain relief for hanging variations.
- The BUPOA22 model fits the rear lock nut for the BUEXSO310 through to BUEXSO320 or applications fitting to the rear threaded cable entry nut for the BUEXSO410, BUEXSO510, BUEXSO420 and BUEXSO520
- The BUPOA50 fits the main body lock nut for the BUEXSO410 through to BUEXSO550 models
- Pendant outlet kits can also suit the Buffalo plug and angled plug bodies where needed.
- Made from tough robust stainless steel the provide and excellent solution for many environmental conditions.



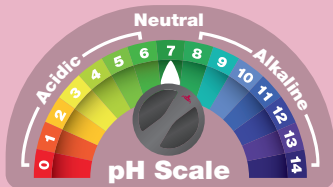
Catalogue Number	Description
BUPOA22	Pendant Outlet Adaption Kit Metal Diameter 22.4 mm Small
BUPOA50	Pendant Outlet Adaption Kit Metal Diameter 50.5 mm Large

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BUSB13

See current catalogue for further detail



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PAGE 1 of 2

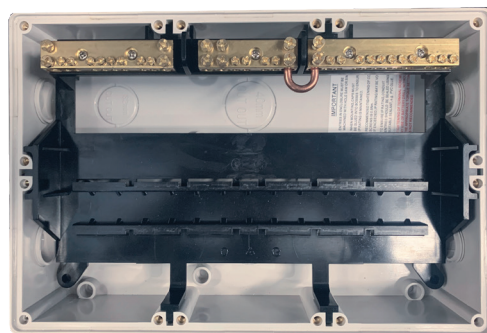


Switchboard 13 Module IP66

- 13 module Enclosure with removable DIN rail assembly.
- Horizontal mount.
- Rated to 100A.
- Earth and neutral link bars provided.
- Includes 6 Module PVC back box with additional top & bottom conduit entries.
- DIN & Link Bar Cradle Assembly can be removed to aid installation of DIN equipment & cabling.
- Back Box has 8 x Ø 25mm & 5 x Ø 32mm conduit entries and 2 x 40mm, 2 x 32mm & 2 x 25mm Ø rear cut-outs.
- Polycarbonate Cover for High Impact Strength.
- UV Resistant material.
- Good level of Chemical Resistance.
- Pole fillers provided to fill unused DIN space.
- Ambient Temperature capability from -25C to +75C.
- Grey colour.
- Installer tip: cover all mounting or cover screws with supplied screw caps & sealant, likewise all conduit entries should be tightened & sealed with sealant.
- Fix cover screws to maximum torque levels of 0.53Nm
- IK07 impact resistant
- Compliant to AS/NZS 61439.3



Description	Cat No.	Poles	Rating	Dimensions L x W x D (mm)	Conduit Entries
Switchboard 13 Module IP66	BUSB13	13	100A	303 x 206 x 130.5	8 x Ø 25mm 5 x Ø 32mm



BUSB13 Internal view (less cover)



Certification Number:

GMA-517229

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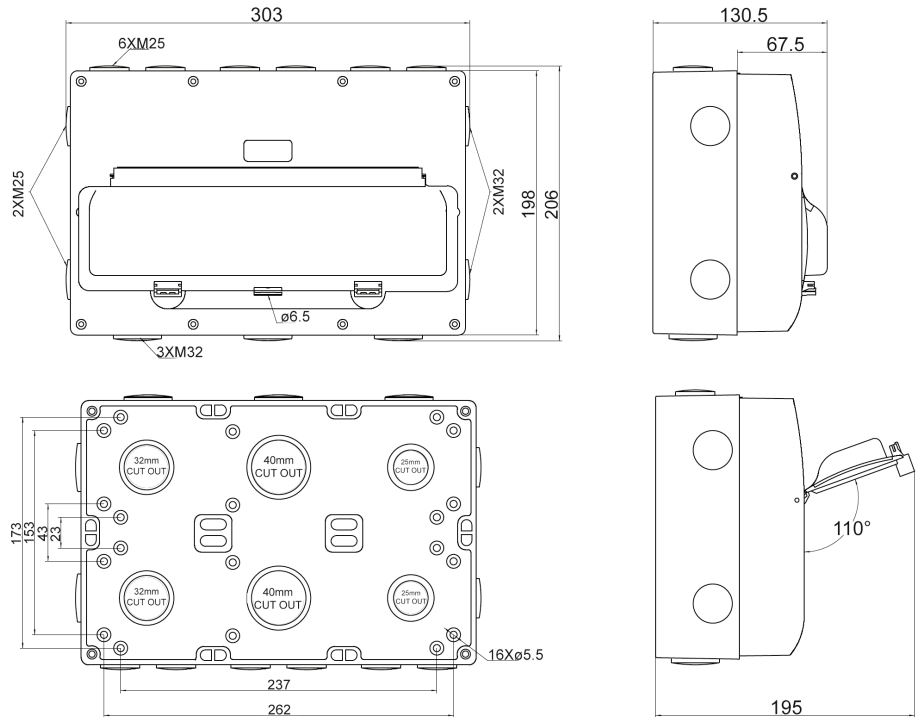
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BUSB13

See current catalogue for further detail

Switchboard 13 Module IP66

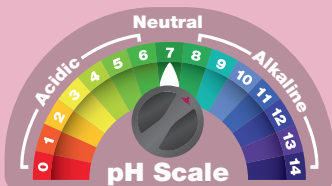
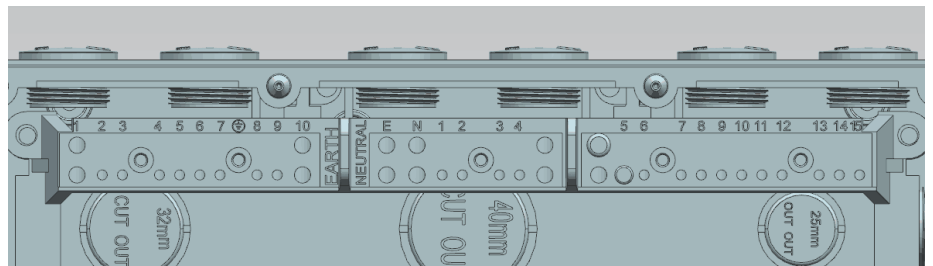


LINK BAR TERMINAL HOLE DIMENSIONS

EARTH – 2 x Ø8mm, 8 x Ø5mm

NEUTRAL SHORT - 3 x Ø8mm, 4 x Ø5mm

NEUTRAL LONG - 2 x Ø8mm, 11 x Ø5mm



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PAGE 2 of 2

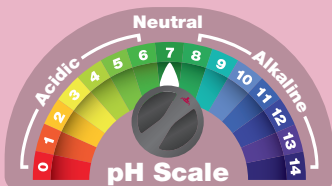
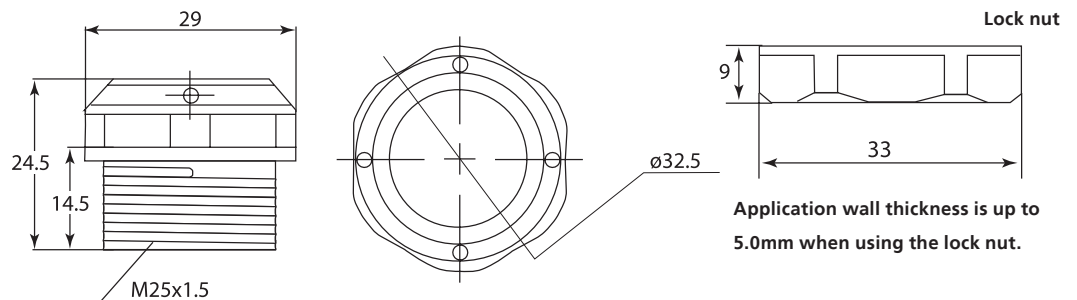
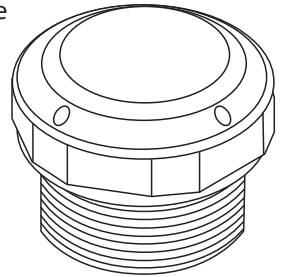


BUBR

See current catalogue for further detail

Breather

- This product provides continuous pressure equalisation between the inside of the enclosure and the atmosphere around the enclosure. This ventilation prevents moisture from entering the enclosure via the seals and condensing inside the enclosure. The breathers are made from moulded polyamide with a silicone seal and meet the requirements of degrees of protection up to IP68.
- If cyclic temperature conditions where warm air that can contain moisture, is prevented from escaping it can cause internal condensation that forms when cooling, and can build up to cause failures, as the air cools, water droplets settling on live parts and causing electrical faults.
- The breather allows the pressure to equalise internally and externally, and warm air can pass to the outside as the system cools helping to prevent this issue.
- If the wall of the enclosure is thick and pre-threaded for 25mm, then the lock nut is not necessary providing the breather can be tightened against the seal and lock in place.
- The BUBR can also be mounted on the side of an enclosure if necessary to assist with air flow.
- This kit contains the BUBR breather, lock-nut and flat seal.



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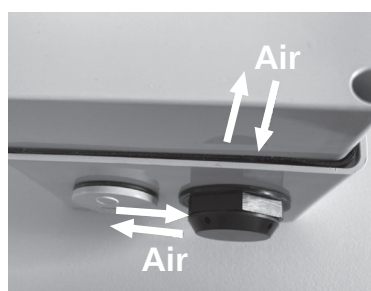
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Feature:	Specification
Connection Thread	M25 x 1.5
Spanner size	29mm (breather) and 33mm (locknut)
Material	Polyamide
Degree of protection	IP68 (when facing downwards)
Colour	black
Temperature range	-40°C to +125°C
Recommended torque	0.8Nm
Typical airflow	7L/min (dp=70mbar)

Reference Product compliance: Specification
IEC529, 2nd (protection class): IP66, IP67, IP68 (Immersion 2 metres/60minutes) IP69K
IEC60069-2-1,2,14 (Heat Resistance): -40oC~+125 oC
IEC600-2-78 (Humidity Testing): 85o85% humidity~1000 hours
IEC62108.10.8.9 (Solar industry testing): Humidity freeze - High temperature, Hail impact test.
UL94V-0f1 (Flame resistant)

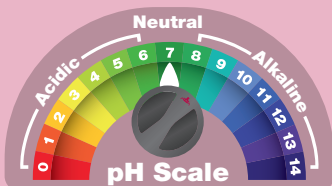
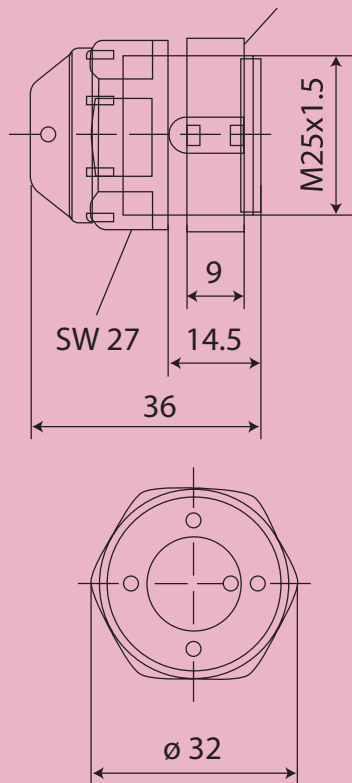


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BUBRD

See current catalogue for further detail



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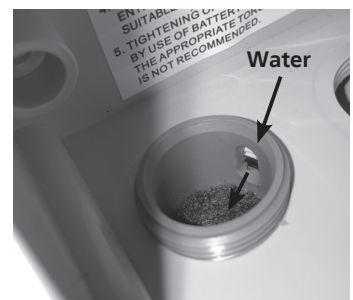
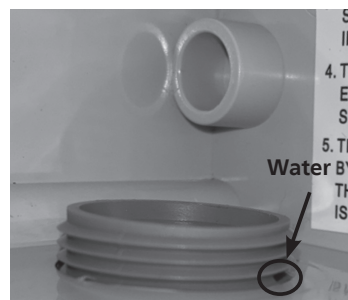
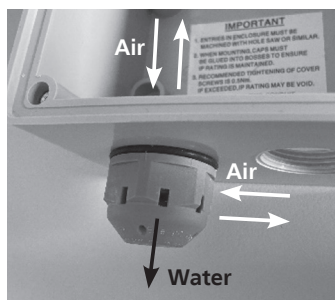


Breather / Drain

- The Trader BUBRD breather/drain combines the advantages of the breather function for stabilizing internal and external air pressure as well as a drain to allow any residual moisture that does build up to be able to escape from the enclosed air sealed system.
- Cyclic temperature conditions where heated air is prevented from escaping and condensation forms on cooling, can be improved using a breather in the system to equalize internal and external pressure. Allowing pressure to be equal reduces this moisture build up helps to prevent failures due to droplets settling on live parts and causing electrical failures.
- The drain feature allows any penetrating water or condensation to be discharged.
- The BUBRD should be positioned at the lowest point of the enclosure to allow the moisture to run into it allowing escape through the membrane. (See Figure 1) To minimise the build-up in the box/enclosure there is a slot through the threaded section, (see Figure 2) and this should be positioned through the wall section of the enclosure so that water can enter into it and down into the breather/drain keeping any moisture to a minimum. If the wall of the enclosure is thick and pre-threaded, then the lock nut is not necessary providing the breather can be tightened against the seal and bottom of the box.
- Removing the breather can sometimes be difficult if it has been extremely tight and may come apart on unwinding in the anticlockwise direction with a spanner so maybe necessary to remove the enclosure cover to help unwind from the threaded section.
- Be aware that this BUBRD reduces the IP rating to IP64 if used and should be positioned accordingly. If the higher rating is required to be maintained for IP66 applications, then the other model that is only a breather BUBR should be used as it can maintain a protection rating of IP68 and can be installed in any orientation. This will help the system but not remove build ups of internal moisture other than through air transfer.



Feature:	Specification
Connection Thread	M25 x 1.5
Spanner size	27mm (breather) and 29mm (locknut)
Material	Polyamide
Degree of protection	IP64 (when facing downwards)
Colour	green
Temperature range	-40°C to +85°C
Recommended torque	0.8Nm
Compliance	IEC60079



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