

**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.

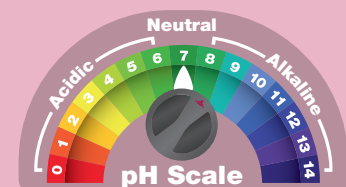
The assemblies have been tested for suitability in accordance with IEC 60947-5.1 Low Voltage Switchgear and Control Gear for control circuit devices and switching elements- electromechanical control circuit devices.

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:

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.

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### Certification Number:

GMA-527329

**GSM Electrical (Australia) Pty Ltd**

Level 2, 142-144 Fullarton Road, Rose Park SA 5067

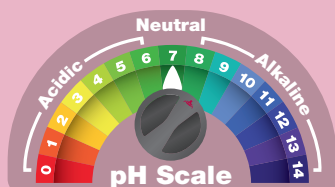
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www.gsm.com.au



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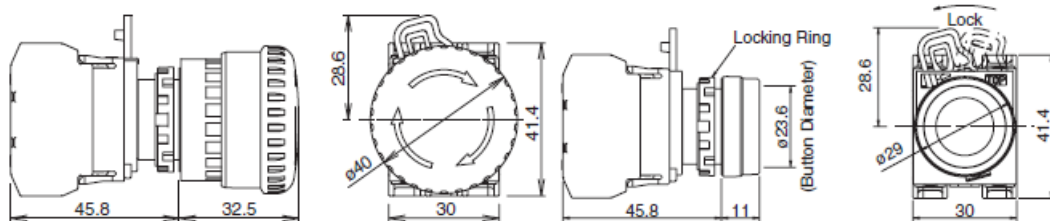
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## Heavy Duty Push Button Switches

| Contact Ratings (Contact Block) |                        |      |      |       |      |
|---------------------------------|------------------------|------|------|-------|------|
| Rated Insulation Voltage        |                        | 600V |      |       |      |
| Rated Thermal Current           |                        | 10A  |      |       |      |
| Operating Voltage               |                        | 24V  | 120V | 240V  | 380V |
| AC<br>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)<br>Operating humidity: 45 to 85% RH (no condensation)<br>Storage temperature: -45 to +80°C<br>Storage humidity: 95% RH maximum                                                                                                                                                     |
| Degree of Protection                 | From panel front: IP65 (IEC 60529)<br>Terminal: IP20 (IEC 60529)                                                                                                                                                                                                                                                                     |
| Insulation Resistance                | 100 MΩ                                                                                                                                                                                                                                                                                                                               |
| Dielectric Strength                  | Contact block: 2,500V, 1 minute<br>Pilot light: 2,000V, 1 minute                                                                                                                                                                                                                                                                     |
| Vibration Resistance                 | <Emergency stop switch><br>Operating extremes / Damage limits:<br>10 to 500Hz, amplitude 0.35 mm, acceleration 50 m/s <sup>2</sup> (5G)<br><Pushbutton, pilot light, illuminated pushbutton, selector switch, and key selector switch><br>Operating extremes: 5 to 55 Hz, amplitude 0.5 mm<br>Damage limits: 30 Hz, amplitude 1.5 mm |
| Shock Resistance                     | <Emergency stop switch><br>Operating extremes: 150 m/s <sup>2</sup> (15G)<br>Damage limits: 1,000 m/s <sup>2</sup> (100G)<br><Pushbutton><br>Operating extremes: 100 m/s <sup>2</sup> (10G)<br>Damage limits: 1,000 m/s <sup>2</sup> (100G)                                                                                          |
| Mechanical Life                      | <Emergency stop switch><br>250,000 (single contact block)<br><Pushbutton><br>Momentary: 5,000,000 (single contact block)<br>1,000,000 (double contact block)<br>Maintained: 250,000 (single contact block)<br>100,000 (double contact block)                                                                                         |
| Electrical Life (minimum operations) | <Emergency stop switch><br>100,000 (single contact block)<br><Pushbutton, selector switch, and key selector switch><br>100,000 (single contact block)<br>50,000 (double contact block)                                                                                                                                               |



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