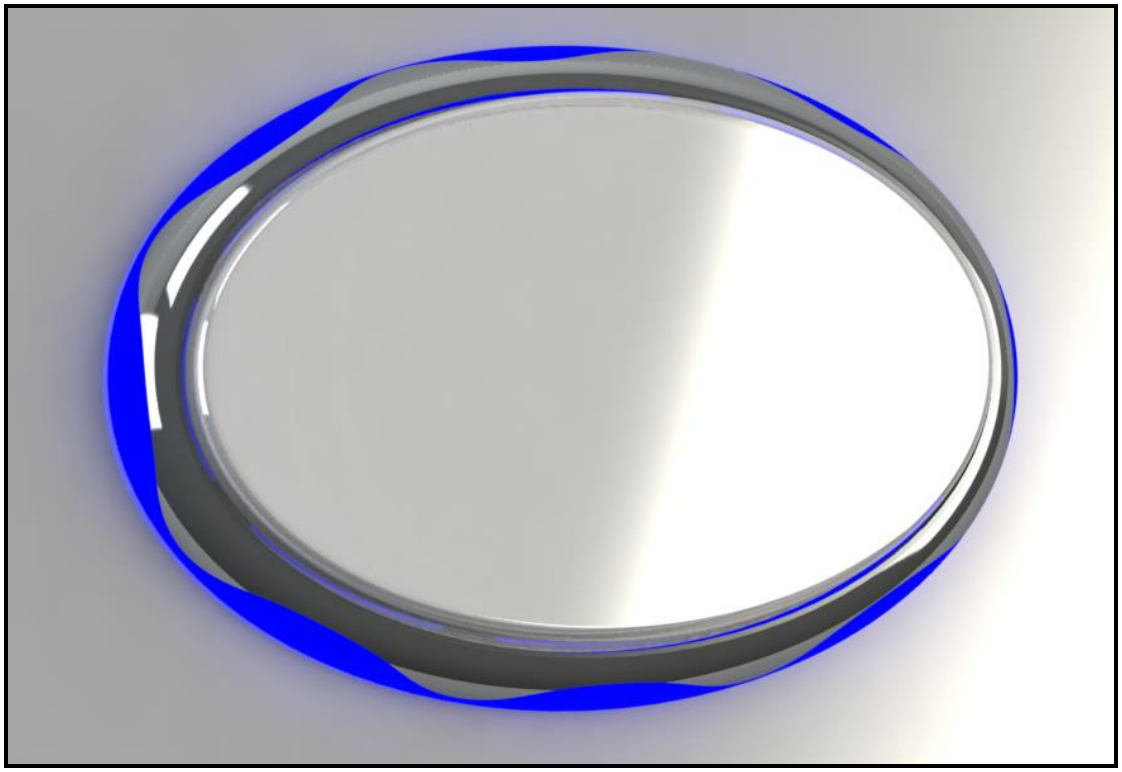
Gamesman

# GPB1280 Push Button
# Product Specification

## Issue 06: Date 03.11.2022



Disclaimer:

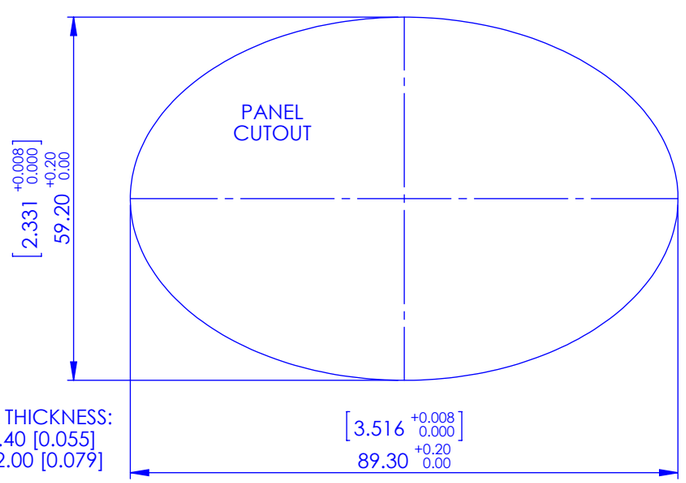
The information provided within this product specification is intended only to make the reader aware of the product's technical data and its use thereof. As such, Gamesman Ltd shall not be held liable for any loss or damage to the assembly or component within, arising from its misuse or from the unintended use of information or particulars included within, or any omission from, this document.

Design and specifications are subject to change without notice.

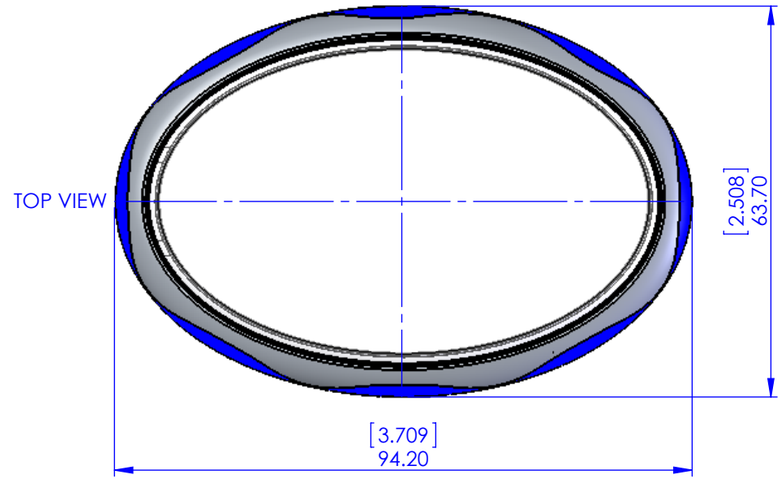
Failure to observe the interface requirements specified in this document may result in damage to the electronics and resultant performance characteristics of the product.

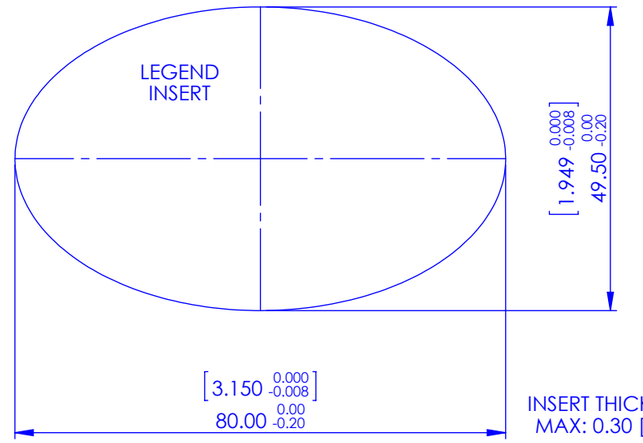
| DRAWING No. | | |
|---|---|---|
| GDD02406 | THIS DRAWING AND ANY INFORMATION SET OUT HEREON IN ARE THE CONFIDENTIAL PROPERTY OF GAMESMAN AND MUST NOT BE DISCLOSED, LOANED, COPIED OR USED FOR ANY OTHER PURPOSE WITHOUT WRITTEN PERMISSION. | © DESIGN COPYRIGHT RESERVED.<br>DO NOT SCALE.<br>THIRD ANGLE PROJECTION.<br>DIMS TO APPLY AFTER PLATING. |

PANEL CUTOUT, TOP VIEW AND LEGEND INSERT ARE ELLIPSES




PANEL THICKNESS:
MIN: 1.40 [0.055]
MAX: 2.00 [0.079]

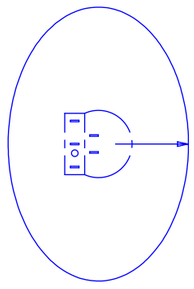



INSERT THICKNESS:
MAX: 0.30 [0.012]

## BUTTONS VIEWED FROM TOP (SCALE 1:2)

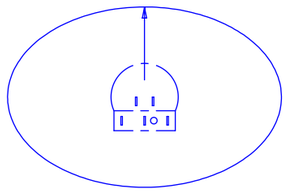
A



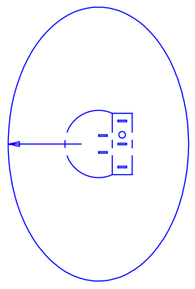
ORIENTATION IN PANEL WITH SYSTEM K1

CABLES DIRECTION

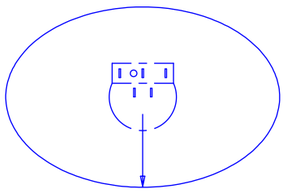
B



C

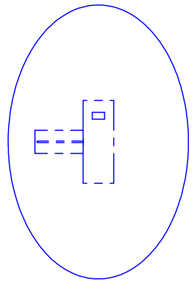


D



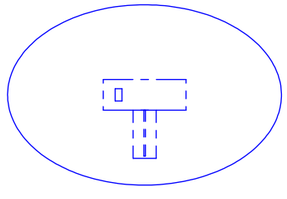
## ORIENTATION OF TEXT ON INSERT

E

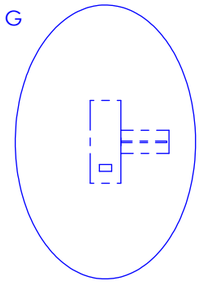


ORIENTATION IN PANEL WITH SYSTEM K2

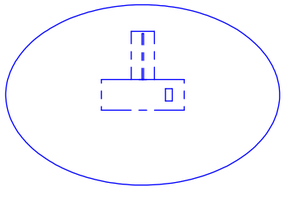
F



G



H



| | | | | |
|---|---|---|---|---|
| APPROVED | | THIS PART MUST BE RoHS COMPLIANT | DIMS: mm | SCALE: 1:1 |
| DRAWN: NAME | Gamesman<br>Unit 6, Crompton Fields, Crompton Way<br>Crawley, West Sussex, RH10 9QB, UK<br>Tel: +44(0)1293 418888<br>Fax: +44(0)1293 418880<br>http://www.gamesman.co.uk | FINISH: SEE PART DRAWING | TOLERANCES UNLESS OTHERWISE SPECIFIED:<br>0.00 DIMS ±0.13<br>0.0 DIMS ±0.40<br>ANG ±0.5°, DRAFT ±1° PER SIDE<br>CONCENTRICITY ±0.08 MAX<br>⬭ - DENOTES INSPECTION DIMENSION | |
| DATE: 28/05/2012 | | MATERIAL: SEE PART DRAWING | | |

| ISS. | DATE | ECN NUMBER | REVISION DETAILS | NAME |
|---|---|---|---|---|
| 3 | 03/07/2012 | ECN-1353 | PANEL CUT-OUT INCREASED | V.PORTILLO |
| 2 | 19/06/2012 | ECN-1349 | THICKNESSES OF PANEL AND INSERT ADDED | V.PORTILLO |
| 1 | 28/05/2012 | NEW DRG | DRAFT ISSUE | V.PORTILLO |

| TITLE | SIZE | SHEET | DRAWING No. |
|---|---|---|---|
| GPB1280 SPECIFICATION | A3 | 1 OF 1 | GDD02406 |

| DRAWING No. | | |
|---|---|---|
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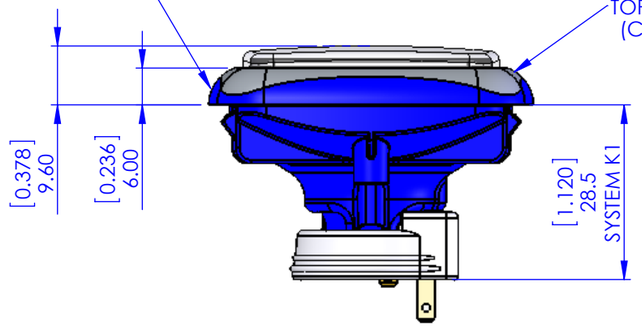
BOTTOM SHOT IN ANY TRANSLUCENT COLOUR
(OR OPAQUE IF HALO IS NOT DESIRED)

STANDARD HALO

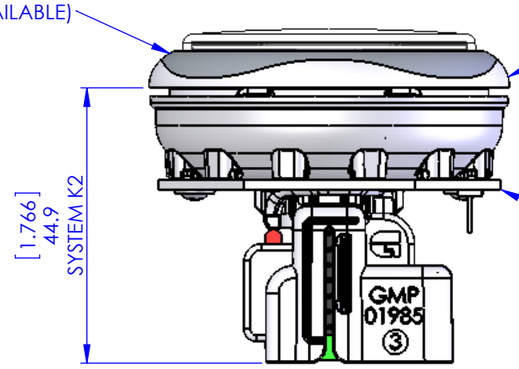
TOP SHOT IN ANY COLOUR
(CHROMING AVAILABLE)

BEZEL AND LENS HEIGHT DIMENSION
COMMON ON ALL 1200 BUTTONS




CONTROLLABLE RGB HALO

BOTTOM SHOT IN:
-CLEAR, FOR A HOT-SPOT STYLE HALO
-OPAL, FOR A DIFFUSED HALO



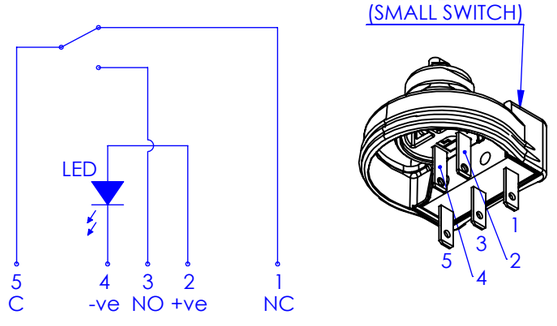

HALO BOARD AND SLEEVE SCREWED BEHIND THE
PANEL AFTER BUTTON IS CLIPPED INTO THE PLATE

FOR STANDARD HALO, GAMESMAN
RECOMMENDS 5 LEDS CENTRAL ILLUMINATION

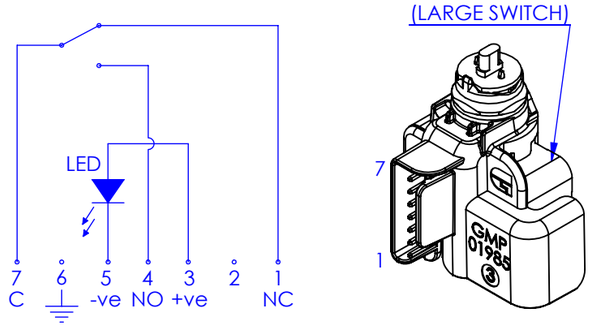
FOR CONTROLLABLE RGB HALO CONFIGURATION,
GAMESMAN RECOMMENDS 1 LED CENTRAL ILLUMINATION

ALL CONNECTION SYSTEMS
FIT IN THE SAME BUTTON AND
CAN BE USED WITH ANY
BUTTON CONFIGURATION

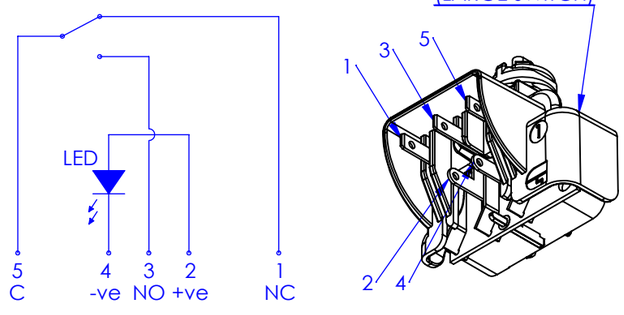
SYSTEM K1
(SMALL SWITCH)




SYSTEM K2
(LARGE SWITCH)




SYSTEM K3
(LARGE SWITCH)

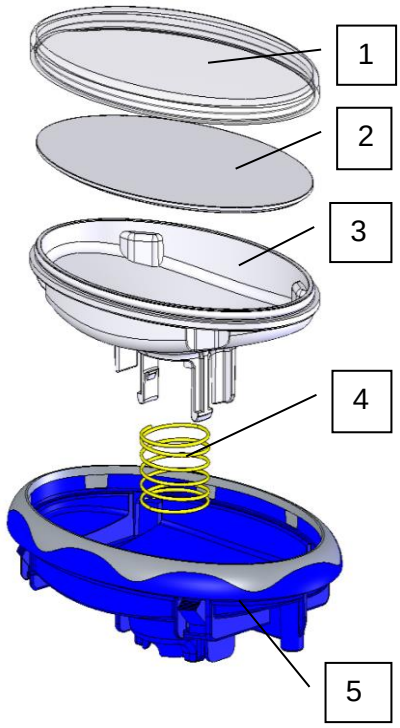



THIS DRAWING SHOULD NOT BE TAKEN AS REFERENCE FOR PART NUMBERS - SEE ASSOCIATED BUTTON SPEC SHEET

| ISS. | DATE | ECN NUMBER | REVISION DETAILS | NAME |
|---|---|---|---|---|
| 3 | 08/10/2012 | ECN-1394 | K3 SYSTEM ADDED | V.PORTILLO |
| 2 | 14/09/2012 | ECN-1382 | BEZEL AND LENS HEIGHT DIMENSION INCLUDED | V.PORTILLO |
| 1 | 21/05/2012 | NEW DRG | DRAFT ISSUE | V.PORTILLO |

| | | | | | |
|---|---|---|---|---|---|
| APPROVED | Gamesman | THIS PART MUST BE RoHS COMPLIANT | DIMS mm | SCALE 1:1 | TITLE: 1200 SERIES SPECIFICATION |
| DRAWN V.PORTILLO | Unit 6, Crompton Fields, Crompton Way<br>Crawley, West Sussex, RH10 9QB, UK<br>Tel: +44(0)1293 418888<br>Fax: +44(0)1293 418880<br>http://www.gamesman.co.uk | FINISH SEE PART DRAWINGS | TOLERANCES UNLESS OTHERWISE SPECIFIED:<br>0.00 DIMS ±0.13<br>0.0 DIMS ±0.40<br>ANG ±0.5°, DRAFT ±1° PER SIDE<br>CONCENTRICITY ±0.08 MAX<br>⬭ - DENOTES INSPECTION DIMENSION | | SIZE A3 / SHEET 1 OF 1 / DRAWING No. GDD02399 |
| DATE 15/05/2012 | | MATERIAL SEE PART DRAWINGS | | | |

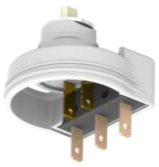
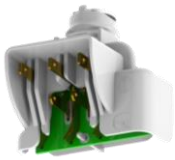
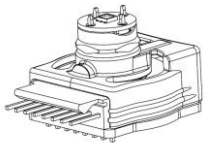
**Product Identification**




| No. | Part Number | Description | Material | UL94 Rating |
|---|---|---|---|---|
| 1 | GMP02303 | Lens | PC | UL94-V2 |
| 2 | GMP02302 | Legend Plate | PC | UL94-V2 |
| 3 | GMP02301 | Plunger | POM | HB |
| 4 | G4-950 | Spring | Carbon Steel | N/A |
| 5 | GMP02300 | Bezel | PC and ABS | HB and UL94-V2 |

Note:
Item 5 is a “two shot” moulding, and therefore available in various colour combinations – see the button specification sheet for potential options. *Minimum order quantities may apply*

**Product Compatibility**

| System | K1 | K2 | K3 | K7 |
|---|---|---|---|---|
| **Illustration** |  | |  |  |
| **Datasheet** | PDF | PDF | PDF | PDF |
| **Switch** | Cherry DB3 or Cherry DB5 | Cherry Large Tactile (NO & NC options for RGB) | Cherry Large Tactile | Cherry DB3 or Cherry DB5 |
| **White LED Options** | 12V or 5V, Single LED or 5 Radial LEDs | 12V or 5V, Single LED or 5 Radial LEDs | 12V or 5V, Single LED or 5 Radial LEDs | 12V or 5V, Single LED or 5 Radial LEDs |
| **RGB Option** | No | Yes, Single RGB | No | Yes, Single & 3-RGB Options |
| **Removable LEDs** | No | Yes | Yes | No |
| **Order Codes for Separate LED Assemblies** | | | | |
| **System** | **K1** | **K2 & K3** | | **K7** |
| **12V White Single LED** | N/A | 0927-G02207 | | N/A |
| **12V White Radial 5-LED** | N/A | 0927-G01986 | | N/A |
| **5V White Single LED** | N/A | Please Enquire | | N/A |
| **5V White Radial 5-LED** | N/A | 0927-G03271 | | N/A |
| **12V Red Radial 5-LED** | N/A | 0927-G04818 | | N/A |
| **12V Blue Radial 5-LED** | N/A | 0927-G04776 | | N/A |
| **12V Green Radial 5-LED** | N/A | 0927-G04816 | | N/A |
| **12V White Single LED Reverse Polarity** | N/A | 0927-G02843 | | N/A |
| **12V White Radial 5-LED Reverse Polarity** | N/A | 0927-G02844 | | N/A |

**Gamesman recommends Single Axial Central LED Option for Controllable Halo Versions & 5 Radial x LED Option (1 central and 4 side firing) for non-Controllable Halo Versions.**

**For more details see the Gamesman Specification sheet for this button.**
**GPB1280.xls, and details of various switch connection systems.**

**Accessories and Options**

Halo Boards

Halo boards are separately powered LED PCBAs that are specifically mounted to the button of a button, for the purpose of illuminating the outer bezel. For multicolour RGB illumination, Gamesman recommends using Opal Bezels for this purpose. Additional Sleeves and screws are required to mount and illuminate the Halo Board correctly.

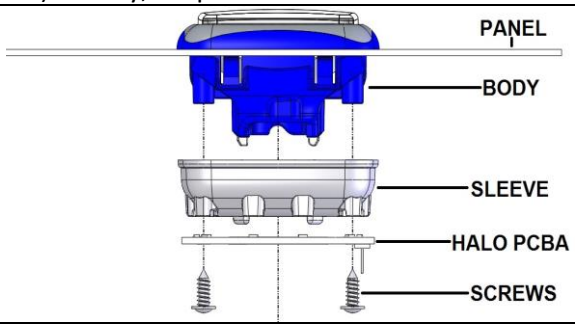
| Part Number | Type / Colour |
|---|---|
| 0927-G02305 | RGB – Memory – Pre-Programmed – 5v (Option 1)<br><br>This option consists of a memory chip located on the halo PCBA itself. This chip contains a pre-determined, pre-programmed LED sequence uploaded at the time of manufacture so that when voltage is applied, the PCBA automatically runs this sequence. As there is no independent 'control' of the LEDs this only has a 2pin connector – power and ground. |
| 0927-G02354 | RGB – Without Memory – Controllable from External Source - 5v (Option 2)<br><br>This option does not have the memory chip on board and as such will not automatically run a sequence when voltage is applied. However, it does have a 7way connector with pins that allow the customer to control the LEDs independently using their own LED controller board, via serial communication. |

Panel Mounting Options

The GPB1200 Series buttons feature Panel Mount clips that will secure the button to a metal panel up to 2mm thick (Including any additional coating or finish), with no additional hardware required. For customers who would like to use an additional Halo Board (See above), Gamesman can advise and supply sleeves and screws for a customer's cabinet.

Details of Securing the Sleeve, PCBA and Screw to Button

1) Insert Button into the panel from the front of the machine.
2) Lining up the fixing holes up in the Bezel, Sleeve and (optional) Halo PCB, use the screws provided to secure the Sleeve from the rear of the panel.
3) Lastly, snap the switch holder into the bezel.

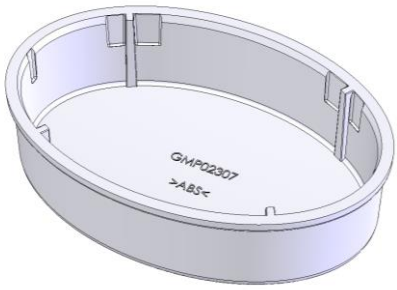
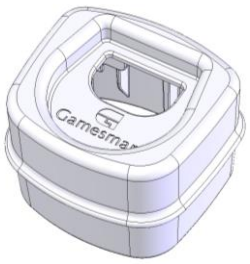



Sleeve and Screws Only

In addition to securing the Halo PCBA, the sleeve and screws can also be used by themselves to provide further security to thicker panels. Maximum allowances for this button per switch system is as follows:

| K1 | K2 | K3 | K7 |
|---|---|---|---|
| 8mm | 8mm | 6.5mm | 8mm |

Tools

| Extraction Tool for Button<br><br>Order Part Number GMP02307 | Insertion/Extraction Tool for K1, K2 and K3 Switch<br><br>Order Part Number GMP02791 |
|---|---|
|  |  |

**Additional Ordering Details**

Specification Sheet

Click the link below to complete a specification sheet of your requirements. If you have any questions regarding your options that are not covered in this document, please contact our Sales team.

GPB1280.xls

Packaging

Standard Packaging format for these buttons:

For Buttons **without a Halo Board, Sleeves or Screws**:

Lens & Legend Packed Separately in Bulk
Switch Connection System Assembled to the Button
Button Assembly Packed in Trays

For Buttons **with a Halo Board, Sleeve or Screws**:

Lens & Legend Packed Separately in Bulk
Switch Connection System to be loosely fitted into button
Button/Switch Assembly Packed in Trays
All Halo parts packed in bulk as kit of parts PER BOX (Sleeve, Screws & LED PCBA)

For any deviations from this please refer to specification sheet.

Space Models

3D CAD models link here, for other combinations please contact our Sales team.

GAMESMAN LTD
CROMPTON FIELDS, CROMPTON WAY, CRAWLEY, WEST SUSSEX, RH10 9QB
TEL: +44 (0) 1293 418888 FAX: +44 (0) 1293 418880

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E-mail: sales@gamesman.co.uk