

## 21 JOULE XENON BEACONS - XB12 RANGE



### Introduction

These high output certified beacons have been designed for use in potentially explosive atmospheres and harsh environmental conditions. The enclosures are suitable for use offshore or onshore, where light weight combined with corrosion resistance is required.

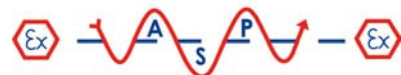
The beacon housing is manufactured completely from a U.V. stable, glass reinforced polyester. Stainless steel screws and mounting bracket are incorporated ensuring a totally corrosion free product.

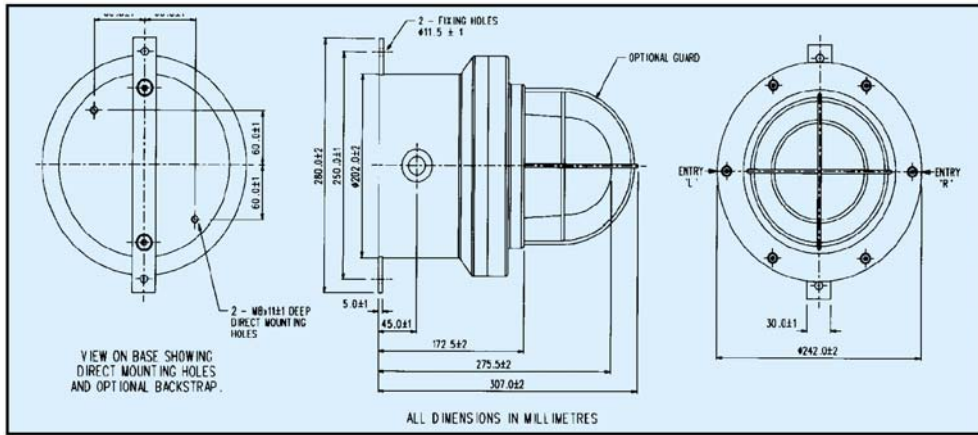
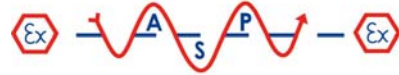
Units can be painted to customer specification and supplied with identification labels.

- Zone 1 and Zone 2 use.
- EExd, IIB T4 & T5.
- ATEX approved, Ex II 2G.
- CENELEC approved.
- BASEEFA Certified.
- UL Listed for USA and Canada
  - Hazardous locations:
- Class I, Div 2, Groups C & D.
- Class I, Zones 1 & 2, AExd IIB T4 & T5.
  - Ordinary locations: Visual-Signal Device.
- High Output (21 Joules).
- IP66 and IP67.
- Certified temperature  $-55^{\circ}\text{C}$  to  $+55^{\circ}\text{C}$  (T4)  $+40^{\circ}\text{C}$  (T5).
- Corrosion resistant GRP.
- Optional stainless steel backstrap.
- Various lens colours.
- Optional lens guard.
- Optional telephone initiation.
- Twin replaceable tubes.

\* Model dependent.

† See FL11, FB11, FL12, FB12 datasheet.





## Specification

|                        |  |
|------------------------|--|
| Certification:         | CENELEC EN50014 and EN50018.<br>Cert. No. BAS 99 ATEX 2196.<br>EExd IIB T4 & T5.<br><b>UL Listed for USA and Canada:</b><br>- Hazardous locations:<br>Class I, Div 2, Groups C & D and<br>Class I, Zones 1 & 2, AExd IIB T4 & T5.<br>UL Listing No: E187894.<br>- Ordinary locations: Visual-Signal Device.<br>UL Listing No. S8128.<br>Refer to UL Datasheet at rear of catalogue for complete information. |
| Material:              | Body: - Glass reinforced polyester (GRP).<br>Lens: - Glass<br>Cover Screws + Backstrap: - Stainless steel 316.   |
| Finish:                | Natural black or painted to customer specification.  |
| Weight:                | 7.0Kg.   |
| Certified Temperature: | EExd -55°C to +55°C. <b>T4</b><br>UL -55°C to +55°C. <b>T4</b>   |
| Ingress Protection:    | IP66 & IP67.   |
| Fire Retardancy:       | GRP is fire retardant to ISO 1210.   |
| Earth Continuity:      | Optional for metal glands provided via a brass plate (not available in UL version).  |
| Terminals:             | 6 x 6.0mm <sup>2</sup> .   |
| Telephone initiation:  | Initiation by telephone ringing tone.  |

|          |  |
|----------|--|
| Labels:  | Duty/Tag Label optional.               |
| Entries: | 2 x 20mm ISO EExd.<br>2 x 1/2" NPT UL. |

|                               | DC     | AC50/60 Hz |        |
|-------------------------------|--------|------------|--------|
| Voltage                       | 24     | 110        | 240    |
| XB12 Tube Energy (Joules)     |        |            |        |
| Peak Current Consumption (mA) | 1400   | 350        | 185    |
| Effective Intensity (Cd)      | 355    | 355        | 355    |
| Peak Intensity (Cd)           | 123691 | 123691     | 123691 |
| Power Consumption (Watts)     | 33.6   | 38.5       | 44.4   |

NOTE: The Cd figures are for a clear lens @ 1Hz flash rate.

### For Coloured Lenses

| Colour             | Red  | Blue | Amber | Green | Yellow |
|--------------------|------|------|-------|-------|--------|
| Multiplying Factor | 0.15 | 0.12 | 0.51  | 0.49  | 0.86   |

The photometric data has been verified by BSI.  
A report is available if required.

## Ordering Requirements

The following code is designed to help in the selection of the correct unit. Build up the reference number by inserting the code for each component into the appropriate box. **For standard products, available ex-stock, contact sales office for details.**

| <b>XB12</b>  |               |            |             |            |             |                  |                |                 |                         |     |   |         |      |          |     |           |     |           |     |   |  |  |            |      |        |    |  |  |   |        |      |     |   |      |   |       |   |       |   |        |   |       |   |   |       |      |      |   |     |   |  |             |      |                 |   |           |   |   |             |      |      |   |     |   |  |       |      |      |   |     |   |                  |  |  |                 |      |            |   |      |   |   |        |      |               |   |     |   |      |   |        |   |      |   |       |   |                |   |
|--|---------------|------------|-------------|------------|-------------|------------------|----------------|-----------------|-------------------------|-----|---|---------|------|----------|-----|-----------|-----|-----------|-----|---|--|--|------------|------|--------|----|--|--|---|--------|------|-----|---|------|---|-------|---|-------|---|--------|---|-------|---|---|-------|------|------|---|-----|---|--|-------------|------|-----------------|---|-----------|---|---|-------------|------|------|---|-----|---|--|-------|------|------|---|-----|---|------------------|--|--|-----------------|------|------------|---|------|---|---|--------|------|---------------|---|-----|---|------|---|--------|---|------|---|-------|---|----------------|---|
| Certification  | Voltage       | Flash Rate | Lens Colour | Lens Guard | Unit Fixing | Earth Continuity | Tag/Duty Label | Initiate Option | Unit Finish             |     |   |         |      |          |     |           |     |           |     |   |  |  |            |      |        |    |  |  |   |        |      |     |   |      |   |       |   |       |   |        |   |       |   |   |       |      |      |   |     |   |  |             |      |                 |   |           |   |   |             |      |      |   |     |   |  |       |      |      |   |     |   |                  |  |  |                 |      |            |   |      |   |   |        |      |               |   |     |   |      |   |        |   |      |   |       |   |                |   |
| <table border="1"> <tr><th>Certification</th><th>Code</th></tr> <tr><td>Uncertified</td><td>W</td></tr> <tr><td>BASEEFA</td><td>B</td></tr> <tr><td>UL</td><td>UL</td></tr> <tr><td>UL (ordinary locations)</td><td>ULW</td></tr> </table> | Certification | Code       | Uncertified | W          | BASEEFA     | B                | UL             | UL              | UL (ordinary locations) | ULW | <table border="1"> <tr><th>Voltage</th><th>Code</th></tr> <tr><td>24V d.c.</td><td>024</td></tr> <tr><td>110V a.c.</td><td>110</td></tr> <tr><td>240V a.c.</td><td>240</td></tr> <tr><td colspan="2">Other voltages available, please specify.</td></tr> </table> | Voltage | Code | 24V d.c. | 024 | 110V a.c. | 110 | 240V a.c. | 240 | Other voltages available, please specify. |  | <table border="1"> <tr><th>Flash Rate</th><th>Code</th></tr> <tr><td>60/min</td><td>06</td></tr> <tr><td colspan="2">Other flash rates available, please specify.</td></tr> </table> | Flash Rate | Code | 60/min | 06 | Other flash rates available, please specify. |  | <table border="1"> <tr><th>Colour</th><th>Code</th></tr> <tr><td>Red</td><td>R</td></tr> <tr><td>Blue</td><td>B</td></tr> <tr><td>Green</td><td>G</td></tr> <tr><td>Amber</td><td>A</td></tr> <tr><td>Yellow</td><td>Y</td></tr> <tr><td>Clear</td><td>C</td></tr> </table> | Colour | Code | Red | R | Blue | B | Green | G | Amber | A | Yellow | Y | Clear | C | <table border="1"> <tr><th>Guard</th><th>Code</th></tr> <tr><td>None</td><td>N</td></tr> <tr><td>Yes</td><td>Y</td></tr> </table> | Guard | Code | None | N | Yes | Y | <table border="1"> <tr><th>Unit Fixing</th><th>Code</th></tr> <tr><td>Direct Mounting</td><td>D</td></tr> <tr><td>Backstrap</td><td>B</td></tr> </table> | Unit Fixing | Code | Direct Mounting | D | Backstrap | B | <table border="1"> <tr><th>Continuity*</th><th>Code</th></tr> <tr><td>None</td><td>N</td></tr> <tr><td>Yes</td><td>Y</td></tr> </table> <p>*Earth continuity not available in UL version.</p> | Continuity* | Code | None | N | Yes | Y | <table border="1"> <tr><th>Label</th><th>Code</th></tr> <tr><td>None</td><td>N</td></tr> <tr><td>Yes</td><td>Y</td></tr> <tr><td colspan="2">(Please specify)</td></tr> </table> | Label | Code | None | N | Yes | Y | (Please specify) |  | <table border="1"> <tr><th>Initiate Option</th><th>Code</th></tr> <tr><td>*Telephone</td><td>T</td></tr> <tr><td>None</td><td>N</td></tr> </table> <p>*Telephone option not available in UL version.</p> | Initiate Option | Code | *Telephone | T | None | N | <table border="1"> <tr><th>Finish</th><th>Code</th></tr> <tr><td>Natural Black</td><td>N</td></tr> <tr><td>Red</td><td>R</td></tr> <tr><td>Blue</td><td>B</td></tr> <tr><td>Yellow</td><td>Y</td></tr> <tr><td>Grey</td><td>G</td></tr> <tr><td>White</td><td>W</td></tr> <tr><td>Special Finish</td><td>S</td></tr> </table> | Finish | Code | Natural Black | N | Red | R | Blue | B | Yellow | Y | Grey | G | White | W | Special Finish | S |
| Certification  | Code          |            |             |            |             |                  |                |                 |                         |     |   |         |      |          |     |           |     |           |     |   |  |  |            |      |        |    |  |  |   |        |      |     |   |      |   |       |   |       |   |        |   |       |   |   |       |      |      |   |     |   |  |             |      |                 |   |           |   |   |             |      |      |   |     |   |  |       |      |      |   |     |   |                  |  |  |                 |      |            |   |      |   |   |        |      |               |   |     |   |      |   |        |   |      |   |       |   |                |   |
| Uncertified  | W             |            |             |            |             |                  |                |                 |                         |     |   |         |      |          |     |           |     |           |     |   |  |  |            |      |        |    |  |  |   |        |      |     |   |      |   |       |   |       |   |        |   |       |   |   |       |      |      |   |     |   |  |             |      |                 |   |           |   |   |             |      |      |   |     |   |  |       |      |      |   |     |   |                  |  |  |                 |      |            |   |      |   |   |        |      |               |   |     |   |      |   |        |   |      |   |       |   |                |   |
| BASEEFA  | B             |            |             |            |             |                  |                |                 |                         |     |   |         |      |          |     |           |     |           |     |   |  |  |            |      |        |    |  |  |   |        |      |     |   |      |   |       |   |       |   |        |   |       |   |   |       |      |      |   |     |   |  |             |      |                 |   |           |   |   |             |      |      |   |     |   |  |       |      |      |   |     |   |                  |  |  |                 |      |            |   |      |   |   |        |      |               |   |     |   |      |   |        |   |      |   |       |   |                |   |
| UL   | UL            |            |             |            |             |                  |                |                 |                         |     |   |         |      |          |     |           |     |           |     |   |  |  |            |      |        |    |  |  |   |        |      |     |   |      |   |       |   |       |   |        |   |       |   |   |       |      |      |   |     |   |  |             |      |                 |   |           |   |   |             |      |      |   |     |   |  |       |      |      |   |     |   |                  |  |  |                 |      |            |   |      |   |   |        |      |               |   |     |   |      |   |        |   |      |   |       |   |                |   |
| UL (ordinary locations)  | ULW           |            |             |            |             |                  |                |                 |                         |     |   |         |      |          |     |           |     |           |     |   |  |  |            |      |        |    |  |  |   |        |      |     |   |      |   |       |   |       |   |        |   |       |   |   |       |      |      |   |     |   |  |             |      |                 |   |           |   |   |             |      |      |   |     |   |  |       |      |      |   |     |   |                  |  |  |                 |      |            |   |      |   |   |        |      |               |   |     |   |      |   |        |   |      |   |       |   |                |   |
| Voltage  | Code          |            |             |            |             |                  |                |                 |                         |     |   |         |      |          |     |           |     |           |     |   |  |  |            |      |        |    |  |  |   |        |      |     |   |      |   |       |   |       |   |        |   |       |   |   |       |      |      |   |     |   |  |             |      |                 |   |           |   |   |             |      |      |   |     |   |  |       |      |      |   |     |   |                  |  |  |                 |      |            |   |      |   |   |        |      |               |   |     |   |      |   |        |   |      |   |       |   |                |   |
| 24V d.c.   | 024           |            |             |            |             |                  |                |                 |                         |     |   |         |      |          |     |           |     |           |     |   |  |  |            |      |        |    |  |  |   |        |      |     |   |      |   |       |   |       |   |        |   |       |   |   |       |      |      |   |     |   |  |             |      |                 |   |           |   |   |             |      |      |   |     |   |  |       |      |      |   |     |   |                  |  |  |                 |      |            |   |      |   |   |        |      |               |   |     |   |      |   |        |   |      |   |       |   |                |   |
| 110V a.c.  | 110           |            |             |            |             |                  |                |                 |                         |     |   |         |      |          |     |           |     |           |     |   |  |  |            |      |        |    |  |  |   |        |      |     |   |      |   |       |   |       |   |        |   |       |   |   |       |      |      |   |     |   |  |             |      |                 |   |           |   |   |             |      |      |   |     |   |  |       |      |      |   |     |   |                  |  |  |                 |      |            |   |      |   |   |        |      |               |   |     |   |      |   |        |   |      |   |       |   |                |   |
| 240V a.c.  | 240           |            |             |            |             |                  |                |                 |                         |     |   |         |      |          |     |           |     |           |     |   |  |  |            |      |        |    |  |  |   |        |      |     |   |      |   |       |   |       |   |        |   |       |   |   |       |      |      |   |     |   |  |             |      |                 |   |           |   |   |             |      |      |   |     |   |  |       |      |      |   |     |   |                  |  |  |                 |      |            |   |      |   |   |        |      |               |   |     |   |      |   |        |   |      |   |       |   |                |   |
| Other voltages available, please specify.  |               |            |             |            |             |                  |                |                 |                         |     |   |         |      |          |     |           |     |           |     |   |  |  |            |      |        |    |  |  |   |        |      |     |   |      |   |       |   |       |   |        |   |       |   |   |       |      |      |   |     |   |  |             |      |                 |   |           |   |   |             |      |      |   |     |   |  |       |      |      |   |     |   |                  |  |  |                 |      |            |   |      |   |   |        |      |               |   |     |   |      |   |        |   |      |   |       |   |                |   |
| Flash Rate   | Code          |            |             |            |             |                  |                |                 |                         |     |   |         |      |          |     |           |     |           |     |   |  |  |            |      |        |    |  |  |   |        |      |     |   |      |   |       |   |       |   |        |   |       |   |   |       |      |      |   |     |   |  |             |      |                 |   |           |   |   |             |      |      |   |     |   |  |       |      |      |   |     |   |                  |  |  |                 |      |            |   |      |   |   |        |      |               |   |     |   |      |   |        |   |      |   |       |   |                |   |
| 60/min   | 06            |            |             |            |             |                  |                |                 |                         |     |   |         |      |          |     |           |     |           |     |   |  |  |            |      |        |    |  |  |   |        |      |     |   |      |   |       |   |       |   |        |   |       |   |   |       |      |      |   |     |   |  |             |      |                 |   |           |   |   |             |      |      |   |     |   |  |       |      |      |   |     |   |                  |  |  |                 |      |            |   |      |   |   |        |      |               |   |     |   |      |   |        |   |      |   |       |   |                |   |
| Other flash rates available, please specify.   |               |            |             |            |             |                  |                |                 |                         |     |   |         |      |          |     |           |     |           |     |   |  |  |            |      |        |    |  |  |   |        |      |     |   |      |   |       |   |       |   |        |   |       |   |   |       |      |      |   |     |   |  |             |      |                 |   |           |   |   |             |      |      |   |     |   |  |       |      |      |   |     |   |                  |  |  |                 |      |            |   |      |   |   |        |      |               |   |     |   |      |   |        |   |      |   |       |   |                |   |
| Colour   | Code          |            |             |            |             |                  |                |                 |                         |     |   |         |      |          |     |           |     |           |     |   |  |  |            |      |        |    |  |  |   |        |      |     |   |      |   |       |   |       |   |        |   |       |   |   |       |      |      |   |     |   |  |             |      |                 |   |           |   |   |             |      |      |   |     |   |  |       |      |      |   |     |   |                  |  |  |                 |      |            |   |      |   |   |        |      |               |   |     |   |      |   |        |   |      |   |       |   |                |   |
| Red  | R             |            |             |            |             |                  |                |                 |                         |     |   |         |      |          |     |           |     |           |     |   |  |  |            |      |        |    |  |  |   |        |      |     |   |      |   |       |   |       |   |        |   |       |   |   |       |      |      |   |     |   |  |             |      |                 |   |           |   |   |             |      |      |   |     |   |  |       |      |      |   |     |   |                  |  |  |                 |      |            |   |      |   |   |        |      |               |   |     |   |      |   |        |   |      |   |       |   |                |   |
| Blue   | B             |            |             |            |             |                  |                |                 |                         |     |   |         |      |          |     |           |     |           |     |   |  |  |            |      |        |    |  |  |   |        |      |     |   |      |   |       |   |       |   |        |   |       |   |   |       |      |      |   |     |   |  |             |      |                 |   |           |   |   |             |      |      |   |     |   |  |       |      |      |   |     |   |                  |  |  |                 |      |            |   |      |   |   |        |      |               |   |     |   |      |   |        |   |      |   |       |   |                |   |
| Green  | G             |            |             |            |             |                  |                |                 |                         |     |   |         |      |          |     |           |     |           |     |   |  |  |            |      |        |    |  |  |   |        |      |     |   |      |   |       |   |       |   |        |   |       |   |   |       |      |      |   |     |   |  |             |      |                 |   |           |   |   |             |      |      |   |     |   |  |       |      |      |   |     |   |                  |  |  |                 |      |            |   |      |   |   |        |      |               |   |     |   |      |   |        |   |      |   |       |   |                |   |
| Amber  | A             |            |             |            |             |                  |                |                 |                         |     |   |         |      |          |     |           |     |           |     |   |  |  |            |      |        |    |  |  |   |        |      |     |   |      |   |       |   |       |   |        |   |       |   |   |       |      |      |   |     |   |  |             |      |                 |   |           |   |   |             |      |      |   |     |   |  |       |      |      |   |     |   |                  |  |  |                 |      |            |   |      |   |   |        |      |               |   |     |   |      |   |        |   |      |   |       |   |                |   |
| Yellow   | Y             |            |             |            |             |                  |                |                 |                         |     |   |         |      |          |     |           |     |           |     |   |  |  |            |      |        |    |  |  |   |        |      |     |   |      |   |       |   |       |   |        |   |       |   |   |       |      |      |   |     |   |  |             |      |                 |   |           |   |   |             |      |      |   |     |   |  |       |      |      |   |     |   |                  |  |  |                 |      |            |   |      |   |   |        |      |               |   |     |   |      |   |        |   |      |   |       |   |                |   |
| Clear  | C             |            |             |            |             |                  |                |                 |                         |     |   |         |      |          |     |           |     |           |     |   |  |  |            |      |        |    |  |  |   |        |      |     |   |      |   |       |   |       |   |        |   |       |   |   |       |      |      |   |     |   |  |             |      |                 |   |           |   |   |             |      |      |   |     |   |  |       |      |      |   |     |   |                  |  |  |                 |      |            |   |      |   |   |        |      |               |   |     |   |      |   |        |   |      |   |       |   |                |   |
| Guard  | Code          |            |             |            |             |                  |                |                 |                         |     |   |         |      |          |     |           |     |           |     |   |  |  |            |      |        |    |  |  |   |        |      |     |   |      |   |       |   |       |   |        |   |       |   |   |       |      |      |   |     |   |  |             |      |                 |   |           |   |   |             |      |      |   |     |   |  |       |      |      |   |     |   |                  |  |  |                 |      |            |   |      |   |   |        |      |               |   |     |   |      |   |        |   |      |   |       |   |                |   |
| None   | N             |            |             |            |             |                  |                |                 |                         |     |   |         |      |          |     |           |     |           |     |   |  |  |            |      |        |    |  |  |   |        |      |     |   |      |   |       |   |       |   |        |   |       |   |   |       |      |      |   |     |   |  |             |      |                 |   |           |   |   |             |      |      |   |     |   |  |       |      |      |   |     |   |                  |  |  |                 |      |            |   |      |   |   |        |      |               |   |     |   |      |   |        |   |      |   |       |   |                |   |
| Yes  | Y             |            |             |            |             |                  |                |                 |                         |     |   |         |      |          |     |           |     |           |     |   |  |  |            |      |        |    |  |  |   |        |      |     |   |      |   |       |   |       |   |        |   |       |   |   |       |      |      |   |     |   |  |             |      |                 |   |           |   |   |             |      |      |   |     |   |  |       |      |      |   |     |   |                  |  |  |                 |      |            |   |      |   |   |        |      |               |   |     |   |      |   |        |   |      |   |       |   |                |   |
| Unit Fixing  | Code          |            |             |            |             |                  |                |                 |                         |     |   |         |      |          |     |           |     |           |     |   |  |  |            |      |        |    |  |  |   |        |      |     |   |      |   |       |   |       |   |        |   |       |   |   |       |      |      |   |     |   |  |             |      |                 |   |           |   |   |             |      |      |   |     |   |  |       |      |      |   |     |   |                  |  |  |                 |      |            |   |      |   |   |        |      |               |   |     |   |      |   |        |   |      |   |       |   |                |   |
| Direct Mounting  | D             |            |             |            |             |                  |                |                 |                         |     |   |         |      |          |     |           |     |           |     |   |  |  |            |      |        |    |  |  |   |        |      |     |   |      |   |       |   |       |   |        |   |       |   |   |       |      |      |   |     |   |  |             |      |                 |   |           |   |   |             |      |      |   |     |   |  |       |      |      |   |     |   |                  |  |  |                 |      |            |   |      |   |   |        |      |               |   |     |   |      |   |        |   |      |   |       |   |                |   |
| Backstrap  | B             |            |             |            |             |                  |                |                 |                         |     |   |         |      |          |     |           |     |           |     |   |  |  |            |      |        |    |  |  |   |        |      |     |   |      |   |       |   |       |   |        |   |       |   |   |       |      |      |   |     |   |  |             |      |                 |   |           |   |   |             |      |      |   |     |   |  |       |      |      |   |     |   |                  |  |  |                 |      |            |   |      |   |   |        |      |               |   |     |   |      |   |        |   |      |   |       |   |                |   |
| Continuity*  | Code          |            |             |            |             |                  |                |                 |                         |     |   |         |      |          |     |           |     |           |     |   |  |  |            |      |        |    |  |  |   |        |      |     |   |      |   |       |   |       |   |        |   |       |   |   |       |      |      |   |     |   |  |             |      |                 |   |           |   |   |             |      |      |   |     |   |  |       |      |      |   |     |   |                  |  |  |                 |      |            |   |      |   |   |        |      |               |   |     |   |      |   |        |   |      |   |       |   |                |   |
| None   | N             |            |             |            |             |                  |                |                 |                         |     |   |         |      |          |     |           |     |           |     |   |  |  |            |      |        |    |  |  |   |        |      |     |   |      |   |       |   |       |   |        |   |       |   |   |       |      |      |   |     |   |  |             |      |                 |   |           |   |   |             |      |      |   |     |   |  |       |      |      |   |     |   |                  |  |  |                 |      |            |   |      |   |   |        |      |               |   |     |   |      |   |        |   |      |   |       |   |                |   |
| Yes  | Y             |            |             |            |             |                  |                |                 |                         |     |   |         |      |          |     |           |     |           |     |   |  |  |            |      |        |    |  |  |   |        |      |     |   |      |   |       |   |       |   |        |   |       |   |   |       |      |      |   |     |   |  |             |      |                 |   |           |   |   |             |      |      |   |     |   |  |       |      |      |   |     |   |                  |  |  |                 |      |            |   |      |   |   |        |      |               |   |     |   |      |   |        |   |      |   |       |   |                |   |
| Label  | Code          |            |             |            |             |                  |                |                 |                         |     |   |         |      |          |     |           |     |           |     |   |  |  |            |      |        |    |  |  |   |        |      |     |   |      |   |       |   |       |   |        |   |       |   |   |       |      |      |   |     |   |  |             |      |                 |   |           |   |   |             |      |      |   |     |   |  |       |      |      |   |     |   |                  |  |  |                 |      |            |   |      |   |   |        |      |               |   |     |   |      |   |        |   |      |   |       |   |                |   |
| None   | N             |            |             |            |             |                  |                |                 |                         |     |   |         |      |          |     |           |     |           |     |   |  |  |            |      |        |    |  |  |   |        |      |     |   |      |   |       |   |       |   |        |   |       |   |   |       |      |      |   |     |   |  |             |      |                 |   |           |   |   |             |      |      |   |     |   |  |       |      |      |   |     |   |                  |  |  |                 |      |            |   |      |   |   |        |      |               |   |     |   |      |   |        |   |      |   |       |   |                |   |
| Yes  | Y             |            |             |            |             |                  |                |                 |                         |     |   |         |      |          |     |           |     |           |     |   |  |  |            |      |        |    |  |  |   |        |      |     |   |      |   |       |   |       |   |        |   |       |   |   |       |      |      |   |     |   |  |             |      |                 |   |           |   |   |             |      |      |   |     |   |  |       |      |      |   |     |   |                  |  |  |                 |      |            |   |      |   |   |        |      |               |   |     |   |      |   |        |   |      |   |       |   |                |   |
| (Please specify)   |               |            |             |            |             |                  |                |                 |                         |     |   |         |      |          |     |           |     |           |     |   |  |  |            |      |        |    |  |  |   |        |      |     |   |      |   |       |   |       |   |        |   |       |   |   |       |      |      |   |     |   |  |             |      |                 |   |           |   |   |             |      |      |   |     |   |  |       |      |      |   |     |   |                  |  |  |                 |      |            |   |      |   |   |        |      |               |   |     |   |      |   |        |   |      |   |       |   |                |   |
| Initiate Option  | Code          |            |             |            |             |                  |                |                 |                         |     |   |         |      |          |     |           |     |           |     |   |  |  |            |      |        |    |  |  |   |        |      |     |   |      |   |       |   |       |   |        |   |       |   |   |       |      |      |   |     |   |  |             |      |                 |   |           |   |   |             |      |      |   |     |   |  |       |      |      |   |     |   |                  |  |  |                 |      |            |   |      |   |   |        |      |               |   |     |   |      |   |        |   |      |   |       |   |                |   |
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| None   | N             |            |             |            |             |                  |                |                 |                         |     |   |         |      |          |     |           |     |           |     |   |  |  |            |      |        |    |  |  |   |        |      |     |   |      |   |       |   |       |   |        |   |       |   |   |       |      |      |   |     |   |  |             |      |                 |   |           |   |   |             |      |      |   |     |   |  |       |      |      |   |     |   |                  |  |  |                 |      |            |   |      |   |   |        |      |               |   |     |   |      |   |        |   |      |   |       |   |                |   |
| Finish   | Code          |            |             |            |             |                  |                |                 |                         |     |   |         |      |          |     |           |     |           |     |   |  |  |            |      |        |    |  |  |   |        |      |     |   |      |   |       |   |       |   |        |   |       |   |   |       |      |      |   |     |   |  |             |      |                 |   |           |   |   |             |      |      |   |     |   |  |       |      |      |   |     |   |                  |  |  |                 |      |            |   |      |   |   |        |      |               |   |     |   |      |   |        |   |      |   |       |   |                |   |
| Natural Black  | N             |            |             |            |             |                  |                |                 |                         |     |   |         |      |          |     |           |     |           |     |   |  |  |            |      |        |    |  |  |   |        |      |     |   |      |   |       |   |       |   |        |   |       |   |   |       |      |      |   |     |   |  |             |      |                 |   |           |   |   |             |      |      |   |     |   |  |       |      |      |   |     |   |                  |  |  |                 |      |            |   |      |   |   |        |      |               |   |     |   |      |   |        |   |      |   |       |   |                |   |
| Red  | R             |            |             |            |             |                  |                |                 |                         |     |   |         |      |          |     |           |     |           |     |   |  |  |            |      |        |    |  |  |   |        |      |     |   |      |   |       |   |       |   |        |   |       |   |   |       |      |      |   |     |   |  |             |      |                 |   |           |   |   |             |      |      |   |     |   |  |       |      |      |   |     |   |                  |  |  |                 |      |            |   |      |   |   |        |      |               |   |     |   |      |   |        |   |      |   |       |   |                |   |
| Blue   | B             |            |             |            |             |                  |                |                 |                         |     |   |         |      |          |     |           |     |           |     |   |  |  |            |      |        |    |  |  |   |        |      |     |   |      |   |       |   |       |   |        |   |       |   |   |       |      |      |   |     |   |  |             |      |                 |   |           |   |   |             |      |      |   |     |   |  |       |      |      |   |     |   |                  |  |  |                 |      |            |   |      |   |   |        |      |               |   |     |   |      |   |        |   |      |   |       |   |                |   |
| Yellow   | Y             |            |             |            |             |                  |                |                 |                         |     |   |         |      |          |     |           |     |           |     |   |  |  |            |      |        |    |  |  |   |        |      |     |   |      |   |       |   |       |   |        |   |       |   |   |       |      |      |   |     |   |  |             |      |                 |   |           |   |   |             |      |      |   |     |   |  |       |      |      |   |     |   |                  |  |  |                 |      |            |   |      |   |   |        |      |               |   |     |   |      |   |        |   |      |   |       |   |                |   |
| Grey   | G             |            |             |            |             |                  |                |                 |                         |     |   |         |      |          |     |           |     |           |     |   |  |  |            |      |        |    |  |  |   |        |      |     |   |      |   |       |   |       |   |        |   |       |   |   |       |      |      |   |     |   |  |             |      |                 |   |           |   |   |             |      |      |   |     |   |  |       |      |      |   |     |   |                  |  |  |                 |      |            |   |      |   |   |        |      |               |   |     |   |      |   |        |   |      |   |       |   |                |   |
| White  | W             |            |             |            |             |                  |                |                 |                         |     |   |         |      |          |     |           |     |           |     |   |  |  |            |      |        |    |  |  |   |        |      |     |   |      |   |       |   |       |   |        |   |       |   |   |       |      |      |   |     |   |  |             |      |                 |   |           |   |   |             |      |      |   |     |   |  |       |      |      |   |     |   |                  |  |  |                 |      |            |   |      |   |   |        |      |               |   |     |   |      |   |        |   |      |   |       |   |                |   |
| Special Finish   | S             |            |             |            |             |                  |                |                 |                         |     |   |         |      |          |     |           |     |           |     |   |  |  |            |      |        |    |  |  |   |        |      |     |   |      |   |       |   |       |   |        |   |       |   |   |       |      |      |   |     |   |  |             |      |                 |   |           |   |   |             |      |      |   |     |   |  |       |      |      |   |     |   |                  |  |  |                 |      |            |   |      |   |   |        |      |               |   |     |   |      |   |        |   |      |   |       |   |                |   |

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