

21 JOULE XENON BEACONS

Exd(e), Weatherproof

XB4 Range



Introduction

These **high output (21 Joule)** beacons have been designed for use in potentially explosive atmospheres and harsh environmental conditions. The marine grade alloy or stainless steel enclosures are suitable for use offshore or onshore, where light weight combined with corrosion resistance and strength is required. Units can be painted to customer specification and fitted with identification labels.

Available with optional Exe terminal chamber.

- ★ Zone 1 and Zone 2 use.
 - ★ Exde IICT5.
 - ★ ATEX approved Ex II 2GD.
 - ★ BASEEFA certified.
 - ★ UL Listed for USA and Canada
 - Hazardous locations:
 - Class I, Div 1, Groups C & D.
 - Class I, Zone 1, AExd IIB T4.
 - Ordinary locations: Visual-Signal Device.
 - ★ GOST 'R' Certified.
 - ★ Brazilian (Inmetro) Certified.
 - ★ Australian (SAA) certified.
 - ★ *Certified temperature -55°C to $+70^{\circ}\text{C}$.
 - ★ IP67 and IP66.
 - ★ Stainless steel or marine grade alloy.
 - ★ Various lens colours.
 - ★ Twin replaceable tubes.
 - ★ Exde version has gland earth continuity in the GRP terminal chamber.
 - ★ Tapered spigot flame path.
 - ★ Telephone or relay initiated option.
 - ★ Optional lens guard.
- *Depending on version.

Distribuição: Segurança Industrial Equipamentos
Fone/Fax: (41) 4063-9687
cml@segind.com.br - segindbr@hotmail.com
www.segind.com.br

Specification

| Voltage | DC | | | AC 50/60 Hz | | | | |
|-------------------------------|--------|--------|--------|-------------|--------|--------|--------|--------|
| | 24 | 48 | 110 | 110 | 120 | 220 | 240 | 254 |
| Tube Energy (Joules) | 21 | 21 | 21 | 21 | 21 | 21 | 21 | 21 |
| Peak Current Consumption (mA) | 1400 | 540 | 240 | 350 | 450 | 240 | 185 | 210 |
| Effective Intensity (Cd) | 355 | 355 | 355 | 355 | 355 | 355 | 355 | 355 |
| Peak Intensity (Cd) | 123691 | 123691 | 123691 | 123691 | 123691 | 123691 | 123691 | 123691 |

NOTE: The above figures (Cd) are for a clear lens @ 1Hz flash rate.
The photometric data has been verified by BSI. A report is available if required.

FOR COLOURED LENSES

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

Telephone initiation or relay interface:

Initiation by telephone ringing tone or low voltage control signals, plus initiation of a second beacon or sounder.

Certification: CENELEC EN60079-0:2006, EN60079-1:2004
EN60079-7:2007, EN61241-0:2006, EN61241-1:2004
Certification Baseefa02ATEX0224X.
ATEX Exd IIC T5 or Exde IIC T5.

UL Listed for USA and Canada

- Hazardous locations:
Class I, Div 1 Groups C-D
Class I, Zone 1.

Listing No. E187894.
- Ordinary locations: Visual-Signal Device.
Listing No. S8128.

Refer to UL data sheet at rear of catalogue for complete information.

GOST 'R' Certification: 1 Exd IIC T4, Russian Fire Approved (VNIIP0).

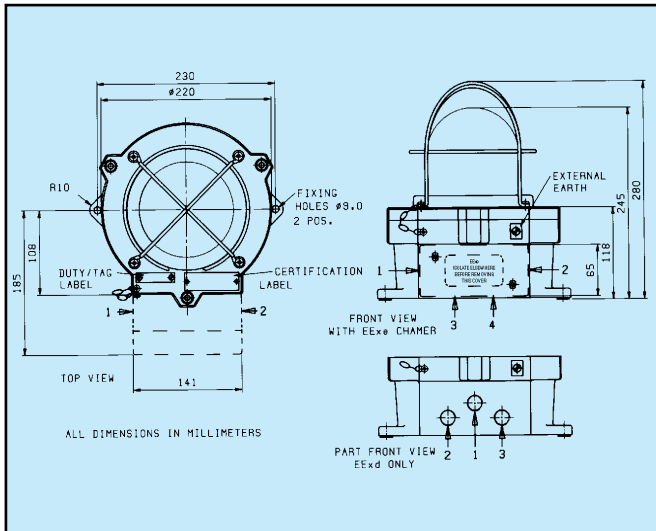
Australian Certification: Contact MEDC for specification.

Brazilian (Inmetro) Certification: BR-Ex d IIC T3/T4/T5/T6.

BR-Ex de IIC T3/T4/T5/T6.

Certified Temperature:

UL -25°C to +70°C BASEEFA & GOST-50°C to +55°C (Exde).
-55°C to +55°C (Exd).



| | |
|------------|---|
| Terminals: | Exe: 6 off suitable for up to 6mm ² cable. (With telephone initiate 10 x 2.5mm ²). Exd: 8 off suitable for up to 10mm ² cable. |
| Entries: | Up to 3 x 20mm or 2 x 25mm ISO in Exd unit. Up to 4 x 20mm or 4 x 25mm ISO in Exe unit. |
| Materials: | LM25TF Marine Grade Alloy body. Grade 316 ANC4B Stainless Steel body. Glass reinforced polyester (GRP) terminal chamber. Toughened Wellglass. |
| Weights: | Exd: 6.6kg. xde: 7.6kg. Add 8.4kg for stainless steel version. |
| Finish: | Red epoxy paint finish as standard or to customer's specification. |

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.**

| Type | Certification | Voltage | Terminals | Cable Entries | Flash Rate | Initiate Options | Lens Guard | Lens Colour | Tag/Duty Label | Material | Finish | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---------------|---|-----------|---------------|------------|------------------|------------|-------------------------|----------------|--------------|--------|---------|---|---|---|------------------|------|----------------------------|-----|---|----|---|------|------------|------|------|----|----------|----|--|----|---|------|-----------------|------|---------|----|----------|----|----------|----|--|--|-----------------------------|------|------|---|-----------|---|--------------------------------|---|-----------------------|---|--|---|--|--|--------|------|-----|---|------|---|-------|---|--------|---|-------|---|-------|---|---|--|--------|------|-----|---|------|---|--------|---|------|---|-------|---|-----------------|---|
| XB4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <table border="1"> <thead> <tr> <th>Voltage</th> <th>Code</th> </tr> </thead> <tbody> <tr><td>24VDC</td><td>B</td></tr> <tr><td>48VDC</td><td>C</td></tr> <tr><td>110VDC</td><td>D</td></tr> <tr><td>110VAC</td><td>E</td></tr> <tr><td>120VAC</td><td>F</td></tr> <tr><td>220VAC</td><td>G</td></tr> <tr><td>240VAC</td><td>H</td></tr> <tr><td>254VAC</td><td>J</td></tr> </tbody> </table> | | Voltage | Code | 24VDC | B | 48VDC | C | 110VDC | D | 110VAC | E | 120VAC | F | 220VAC | G | 240VAC | H | 254VAC | J | <table border="1"> <thead> <tr> <th>Entries</th> <th>Code</th> </tr> </thead> <tbody> <tr><td>20mm</td><td>*B</td></tr> <tr><td>25mm</td><td>*C</td></tr> <tr><td>1/2" NPT</td><td>*D</td></tr> <tr><td>3/4" NPT</td><td>*E</td></tr> </tbody> </table> <p>*prefix entry size (see diagram above) with entry position code e.g. 1B2B.</p> | | Entries | Code | 20mm | *B | 25mm | *C | 1/2" NPT | *D | 3/4" NPT | *E | <table border="1"> <thead> <tr> <th>Flash Rate</th> <th>Code</th> </tr> </thead> <tbody> <tr><td>60/min.</td><td>06</td></tr> <tr><td>120/min.</td><td>12</td></tr> <tr><td>240/min.</td><td>24</td></tr> </tbody> </table> | | Flash Rate | Code | 60/min. | 06 | 120/min. | 12 | 240/min. | 24 | <table border="1"> <thead> <tr> <th>Initiate Options (XB4 only)</th> <th>Code</th> </tr> </thead> <tbody> <tr><td>None</td><td>A</td></tr> <tr><td>Telephone</td><td>B</td></tr> <tr><td>Telephone & 2nd Beacon/Sounder</td><td>C</td></tr> <tr><td>*Relay (12V-48VAC/DC)</td><td>D</td></tr> <tr><td>*Relay (12V-48VAC/DC) & 2nd Beacon/Sounder</td><td>E</td></tr> </tbody> </table> <p>*Specify AC/DC voltage</p> | | Initiate Options (XB4 only) | Code | None | A | Telephone | B | Telephone & 2nd Beacon/Sounder | C | *Relay (12V-48VAC/DC) | D | *Relay (12V-48VAC/DC) & 2nd Beacon/Sounder | E | <table border="1"> <thead> <tr> <th>Colour</th> <th>Code</th> </tr> </thead> <tbody> <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>Yellow</td><td>Y</td></tr> <tr><td>Amber</td><td>A</td></tr> <tr><td>Clear</td><td>C</td></tr> </tbody> </table> | | Colour | Code | Red | R | Blue | B | Green | G | Yellow | Y | Amber | A | Clear | C | <table border="1"> <thead> <tr> <th>Finish</th> <th>Code</th> </tr> </thead> <tbody> <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>Other - specify</td><td>S</td></tr> </tbody> </table> | | Finish | Code | Red | R | Blue | B | Yellow | Y | Grey | G | White | W | Other - specify | S |
| Voltage | Code | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 24VDC | B | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 48VDC | C | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 110VDC | D | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 110VAC | E | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 120VAC | F | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 220VAC | G | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 240VAC | H | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 254VAC | J | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Entries | Code | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 20mm | *B | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 25mm | *C | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1/2" NPT | *D | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3/4" NPT | *E | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Flash Rate | Code | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 60/min. | 06 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 120/min. | 12 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 240/min. | 24 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Initiate Options (XB4 only) | Code | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| None | A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Telephone | B | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Telephone & 2nd Beacon/Sounder | C | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| *Relay (12V-48VAC/DC) | D | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| *Relay (12V-48VAC/DC) & 2nd Beacon/Sounder | E | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Colour | Code | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Red | R | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Blue | B | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Green | G | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Yellow | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Amber | A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Clear | C | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Finish | Code | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Red | R | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Blue | B | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Yellow | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Grey | G | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| White | W | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Other - specify | S | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <table border="1"> <thead> <tr> <th>Certification</th> <th>Code</th> </tr> </thead> <tbody> <tr><td>ATEX</td><td>B</td></tr> <tr><td>UL</td><td>UL*</td></tr> <tr><td>UL (ordinary locations)</td><td>UW*</td></tr> <tr><td>GOST 'R' Exd</td><td>G†</td></tr> <tr><td>Inmetro</td><td>M</td></tr> </tbody> </table> <p>*UL - available alloy or stainless steel. - 24v d.c., 110v a.c., - 240v a.c. only. † - VNIIP0 approved as standard.</p> | | Certification | Code | ATEX | B | UL | UL* | UL (ordinary locations) | UW* | GOST 'R' Exd | G† | Inmetro | M | <table border="1"> <thead> <tr> <th>Terminals & Type</th> <th>Code</th> </tr> </thead> <tbody> <tr><td>6 x 6mm² (Exe)</td><td>6E*</td></tr> <tr><td>8 x 10mm² (Exd)</td><td>8D</td></tr> </tbody> </table> <p>*UL and GOST not available Exe.</p> | | Terminals & Type | Code | 6 x 6mm ² (Exe) | 6E* | 8 x 10mm ² (Exd) | 8D | <table border="1"> <thead> <tr> <th>Lens Guard</th> <th>Code</th> </tr> </thead> <tbody> <tr><td>None</td><td>N</td></tr> <tr><td>Yes</td><td>Y</td></tr> </tbody> </table> | | Lens Guard | Code | None | N | Yes | Y | <table border="1"> <thead> <tr> <th>Material</th> <th>Code</th> </tr> </thead> <tbody> <tr><td>Stainless steel</td><td>0</td></tr> <tr><td>Alloy</td><td>1</td></tr> </tbody> </table> | | Material | Code | Stainless steel | 0 | Alloy | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Certification | Code | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ATEX | B | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| UL | UL* | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| UL (ordinary locations) | UW* | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| GOST 'R' Exd | G† | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Inmetro | M | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Terminals & Type | Code | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 x 6mm ² (Exe) | 6E* | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 x 10mm ² (Exd) | 8D | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lens Guard | Code | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Material | Code | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Stainless steel | 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Alloy | 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | <table border="1"> <thead> <tr> <th>Duty Label</th> <th>Code</th> </tr> </thead> <tbody> <tr><td>None</td><td>N</td></tr> <tr><td>Yes</td><td>Y</td></tr> </tbody> </table> <p>(Please specify)</p> | | Duty Label | Code | None | N | Yes | Y | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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