

Boxes & enclosures  
Custom built control panel, junction & instrumentation box



**EJB Range**  
for Zones 1, 2, 21 & 22

DTS Ex d control panels are constructed & tested according to ATEX protection type Ex d.

Available with a wide variety of components such as switches, contactors and relays, which can be mounted into explosionproof enclosures constructed to keep internal explosions from igniting the surrounding atmosphere. Ex d control panels are usually custom-built in cooperation with the customer to suit their specific application requirements.

**Features:**

- Robust construction
- Wide variety of sizes



**Option:** Boxes provided with load-break switch:

- Visible breaking
- Switch off and on under load and provide safety cut off



**GUV Range**  
for Zones 1, 2

Aluminium junction box



**XBL Range - Polyester**  
for Zones 1, 2, 21 & 22

Instrumentation box  
Junction box  
Control station



**XB Range - Aluminium**  
for Zones 1, 2, 21 & 22

Instrumentation box  
Junction box  
Control station



**XB1 Range - Stainless steel 316L**  
for Zones 1, 2, 21 & 22

Instrumentation box  
Junction box  
Control station



**XB100 Range - Polyester**  
for Zones 1, 2, 21 & 22

Junction box

Contact us

**Thomas & Betts Ltd. Br.**  
Office 724 6WA West Wing  
Dubai Airport Free Zone  
PO Box 54567  
Dubai  
United Arab Emirates  
T +971 (0)4 609 1635  
F +971 (0)4 609 1636  
E enquiry@tnb.com

**Thomas & Betts Saudi Arabia**  
Building 128  
Dammam Industrial Area #2  
PO Box 514  
Al Khobar 31952  
Saudi Arabia  
T +966 (0)13 812 1222  
T +966 (0)13 812 2981  
E enquiry@tnb.com

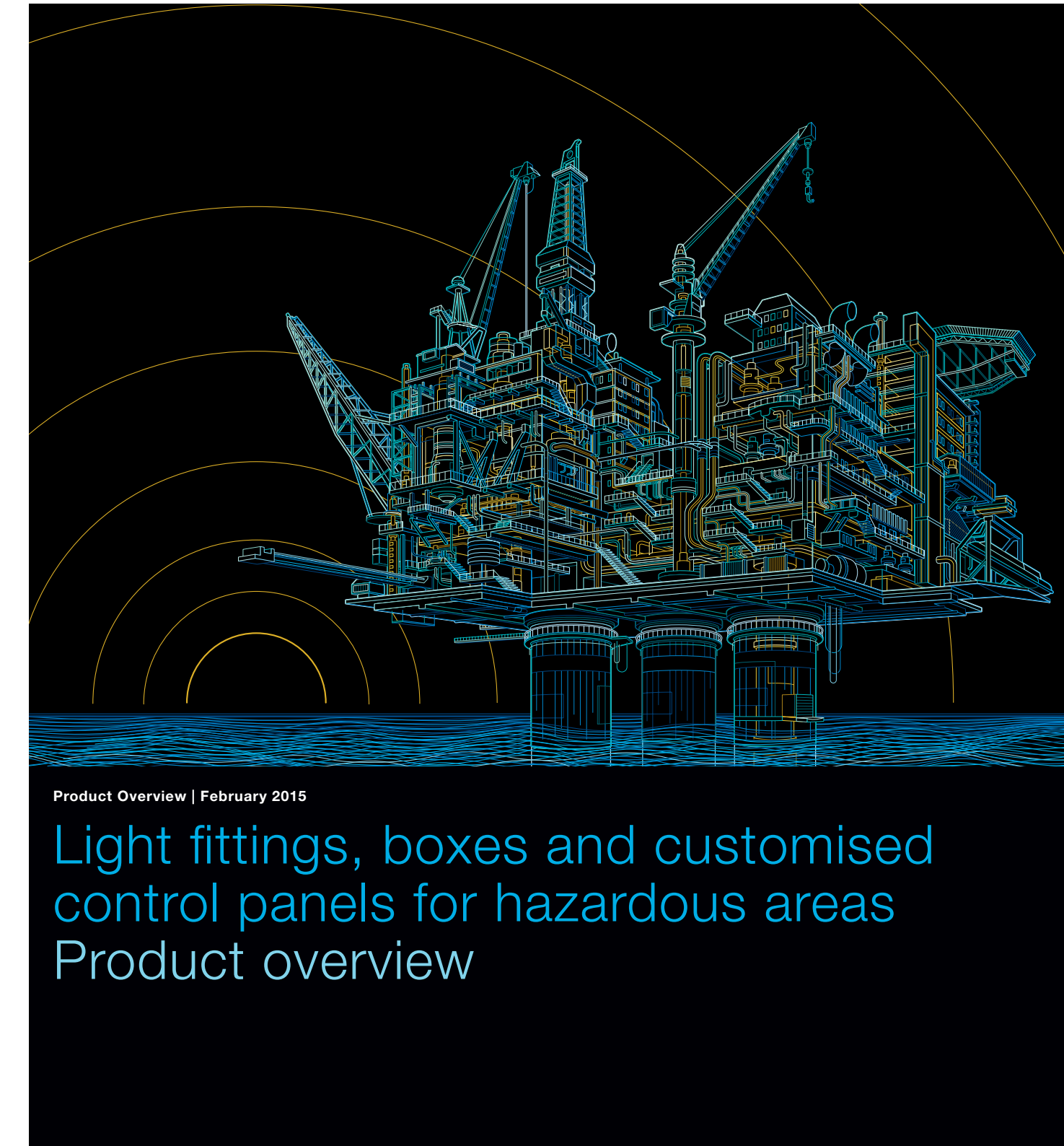
[www.tnb-hazardous.com](http://www.tnb-hazardous.com)  
[www.abb.com/lowvoltage](http://www.abb.com/lowvoltage)

**Note:** We reserve the right to make technical changes or modify the contents of this document without prior notice. With regard to purchase orders, the agreed particulars shall prevail. ABB AG does not accept any responsibility whatsoever for potential errors or possible lack of information in this document.

We reserve all rights in this document and in the subject matter and illustrations contained therein. Any reproduction, disclosure to third parties or utilization of its contents – in whole or in parts – is forbidden without prior written consent of ABB AG.

Copyright © 2015 ABB  
All rights reserved

© Copyright ABB, LIT-140ME-PO-02/2015



Product Overview | February 2015

Light fittings, boxes and customised control panels for hazardous areas  
Product overview



Power and productivity  
for a better world™ **ABB**

Custom built control panels  
One need, one control panel



**About DTS**

With the DTS brand, ABB provides a complete range of explosion proof lighting, emergency lighting, enclosures, junction boxes and control panels. Our DTS range covers all zones of potential explosion gas & dust atmospheres and is compliant with most stringent national, European and international regulations including IECEx and ATEX and ISO9001 standards. This makes it possible to be used in a wide variety of industries across most of the world.

**Our value commitment**

DTS is committed to helping you meet the challenges of corrosion prevention with electrical solutions, services and systems that deliver value.

DTS helps to make your life easier by the practicality of its designs by providing effective advice and by being responsive to your need.

**Stages to create a custom built control panel**

- 1. Brief:** Understand the customer's requirements
- 2. Design:** Control panel's drawing by the R&D team
- 3. Testing:** Drill and realise pressure test
- 4. Specification:** Customise the control panel
- 5. Production:** Assemble and populate
- 6. Quality:** Control by the quality team
- 7. Logistics:** Ship
- 8. Installation:** Ready to be installed



DTS - Light fittings, boxes & custom built control panels for hazardous areas | LIT-140ME-PO-02/15



## Light fittings Tubular light fittings



### Tubular light fitting for Zones 1, 2, 21 & 22

- Features:
- All components mounted on sliding gear tray for easy installation and maintenance
  - Possibility to retro-fit LED gear tray into existing fixtures mounted with T8 lamps
  - Available in polycarbonate (light, high impact resistant) or in glass (specific chemical environment & paint shop)
  - Including accessories (cable gland & fixing bracket)
  - Supplied with offshore grade paint



**XFFL Range - LED**  
**Certification:** Ex II 2 G, Ex d IIC T6 Gb, Ex II 2 D  
 Ex tb IIIC T80°C Db IP66, -20°C to +55°C  
**Light Ratings:** 12.6W, 25W, 31W, 19W, 56W, 71W  
**Rated Voltages:** 100-254Vac 50/60Hz  
**Product Features:**  
 - Operating life above 100,000 h (according to item)  
 - High lumen output - 5,000 lumens with 100% yield (according to item) - LED module with diffuser



**XFF Range - Fluorescent**  
**Certification:** Ex II 2 G, Ex d IIC T6 Gb, Ex II 2 D  
 Ex tb IIIC T80°C Db IP66, -20°C to +55°C  
**Light Ratings:** 18W, 36W, 58W, 36WPL, 55WPL  
**Rated Voltages:** 110-260Vac/Vdc 50/60Hz  
**Related Products:**  
 - Battery 2h - XFF EM (220-240Vac/Vdc 50/60Hz)  
 - Miniature - XEL - 8W, 18WPL (220-240Vac/Vdc 50/60Hz)



**XFPL Range - LED / with automatic switch off**  
**Certification:** Ex II 2 G, Ex de IIC T6 Gb, Ex II 2 D  
 Ex tb IIIC T80°C Db IP66, -20°C to +55°C  
**Light Ratings:** 12.6W, 25W, 31W, 19W, 56W, 71W  
**Rated Voltages:** 100-254Vac 50/60Hz  
**Product Features:**  
 - Operating life above 100,000 h (according to item)  
 - High lumen output - 5,000 lumens with 100% yield (according to item) - LED module with diffuser



**XFP Range - Fluorescent with automatic switch off**  
**Certification:** Ex II 2 G, Ex de IIC T6 Gb, Ex II 2 D  
 Ex tb IIIC T80°C Db IP66, -20°C to +55°C  
**Light Ratings:** 18W, 36W, 58W, 36WPL, 55WPL  
**Rated Voltages:** 110-260Vac/Vdc 50/60Hz  
**Related Products:**  
 - Battery 2h - XFP EM (220-240Vac/Vdc 50/60Hz)  
 - Miniature - XEP - 8W, 9WPL, 11WPL, 18WPL (220-240Vac/Vdc 50/60Hz)



### Weatherproof tubular light fitting for industrial application

- Features:
- Ingress protection IP66 ideal for wash down areas
  - All components mounted on a removable gear tray which gives easy access for installation and maintenance
  - Tubular shape to avoid waste accumulation
  - Including accessories (cable gland & fixing brackets)
  - Possibility to retro-fit LED gear tray into existing fixtures mounted with T8 lamps.



**FFL Range - LED**  
**Certification:** IP66  
**Light Ratings:** 12.6W, 25W, 31W, 19W, 56W, 71W  
**Rated Voltages:** 100-254Vac 50/60Hz  
**Product Features:**  
 - Operating life above 100,000 h (according to item)  
 - High lumen output - 5,000 lumens with 100% yield (according to item) - LED module with diffuser



**XEL BAES Range - LED self contained emergency light fitting**  
**Certification:** Ex II 2 G, Ex de or d IIC T6 Gb, Ex II 2 D Ex tb IIIC T80°C Db IP66, -20°C to +55°C / Zones: 1, 2, 21 & 22  
**Light Ratings:** 4W - 100/300lm  
**Rated Voltages:** 220-240Vac 50/60Hz  
**Product Features:**  
 - Self contained fixture with status indicators including: healthy, fault, text in progress, and indicator lamp fault  
 - Self contained 1h (in accordance with standard EN60598-2-22)  
 - All components mounted on sliding gear tray  
 - Available in polycarbonate or in glass  
 - Possibility to retrofit LED gear tray into existing XEL BAES fixtures mounted with T5 lamps  
 - Including accessories (cable gland & fixing bracket)  
 - Supplied with offshore grade paint



## Light fittings for all zones and industrial applications Floodlights, beacons, warnings & drilling fittings



### Floodlight fitting

- Features:
- Narrow or wide beam
  - Ex e integral junction box
  - Flat or pole mounting
  - Including cable gland
  - Supplied with offshore grade paint



### Beacon & warning light

- Features:
- Lightweight and robust for easy installation
  - Static LED, Halogen or flashing Xenon versions available
  - Choice of 5 colours of globe
  - 2 or 3 light versions available for traffic signals



### Drilling light fitting

- Features:
- Vibration resistant lighting system
  - Plug in system for fast installation
  - Designed to minimise heat build up and overheating
  - Corrosion resistant ideal for marine applications



**XSF / XQF / XEF Range**  
**Certification:** Ex II 2 G, Ex de IIB T2 to T3 Gb IP66, -20°C to +55°C / Zones: 1 & 2  
**Light Ratings:** HP Sodium - 70W, 150W, 250W, 400W / Metal Halide - 250W, 400W / Halogen 2x55W, 2x70W  
**Other Voltages:** 230Vac/Vdc 50Hz  
**Rated Voltages:** 220Vac 60Hz / 120Vac 60Hz  
**Product Features:**  
 - Flat or pole mounting



**SF / QF / EF Range - Industrial applications**  
**Certification:** IP66  
**Light Ratings:** HP Sodium - 70W, 150W, 250W, 400W / Metal Halide - 250W, 400W / Halogen - 2x55W, 2x70W  
**Rated Voltages:** 230Vac/Vdc 50Hz  
**Other Voltages:** 220Vac 50Hz / 120Vac 60Hz  
**Product Features:**  
 - Flat or pole mounting



**XFB / XFL Range - Beacon & warning light**  
**Certification:** Ex II 3 G, Ex nA IIC T5 Gc, Ex II 3 D, Ex tc IIIC T100°C Dc IP66, -20°C to 60°C / Zones: 2 & 22  
**Light Ratings:** Halogen 28W / LED 8W / 30 Joules  
**Rated Voltages:** Halogen 230Vac/Vdc 50/60Hz / LED 100-240Vac 50/60Hz / Xenon Flash 230Vac/Vdc 50/60Hz (Option: 24Vdc, 48Vdc, 110Vac/Vdc 50/60Hz)  
**Product Features:**  
 - Including accessories (cable gland, plug & lamp installed)



**FB / FL Range - Industrial applications**  
**Certification:** IP66  
**Light Ratings:** Halogen 28W / LED 8W / 30 Joules  
**Rated Voltages:** Halogen 230Vac/Vdc 50/60Hz / LED 100-240Vac 50/60Hz / Xenon Flash 230Vac/Vdc 50/60Hz (Option: 24Vdc, 48Vdc, 110Vac/Vdc 50/60Hz)  
**Product Features:**  
 - Including accessories (cable gland, plug & lamp installed)



**XDF Range - Drilling light fitting**  
**Certification:** Ex II 3 G, Ex Na IIC T4 Gc, Ex 3 D, Ex tc IIIC T135°C Dc IP6X, -20°C to +60°C / Zones: 2 & 22  
**Light Ratings:** 36W, 58W  
**Rated Voltages:** 230Vac 50Hz or 220Vac 60Hz  
**Product Features:**  
 - Including accessories (socket, plug, fixing & cable)



## Light fittings Linear light fittings



### Linear light fitting

- Features:
- Double central locking for ingress protection
  - Automatic switch off upon opening for safe maintenance (in option for EVN, EVD, EVT)
  - All components mounted on hinged and removable gear tray which gives easy access for maintenance
  - Including accessories (cable gland & fixing brackets)
  - Possibility to retro-fit LED gear tray into existing fixtures mounted with T8 lamps for EVN, EVD & EVT.



**EVS Range**  
**Certification:** Ex II 2 G, Ex de IIC T5, T4 Gb, Ex II 2 D, Ex tb IIIC T85°C Db IP66, -40°C to +60°C / Zones: 1, 2, 21 & 22  
**Light Ratings:** 18W, 36W, 58W  
**Rated Voltages:** 220-240Vac/Vdc 50/60Hz  
**Related Products:**  
 - Battery 2h - EVS EM  
 - Battery 3h with automatic test and backstart capabilities - EVS EMA



**EVNL Range**  
**Certification:** Ex II 3 G, Ex nR IIC T5, T4 Gc, Ex II 3 D, Ex tc IIIC T135°C Dc IP66, -40°C to 60°C / Zones: 2 & 22  
**Light Ratings:** 12.6W, 25W, 31W, 19W, 56W, 71W  
**Rated Voltages:** 100-254Vac 50/60Hz  
**Product Features:**  
 - Operating life above 100,000 h (according to item)  
 - High lumen output - 5,000 lumens with 100% yield (according to item) - LED module with diffuser



**EVN Range**  
**Certification:** Ex II 3 G, Ex nR IIC T5, T4 Gc, Ex II 3 D, Ex tc IIIC T135°C Dc IP66, -40°C to 60°C / Zones: 2 & 22  
**Light Ratings:** 18W, 36W, 58W  
**Rated Voltages:** 110-260Vac/Vdc 50/60Hz  
**Related Products:**  
 - Battery 2h - EVN EM (220-240Vac/Vdc 50/60Hz)  
 - Battery 3h with automatic test and backstart capabilities - EVN EMA (220-240Vac/Vdc 50/60Hz)



**EVDL Range**  
**Certification:** Ex II 2 D, Ex t IIIC T85°C Db IP66, -40°C to +60°C / Zones: 21 & 22  
**Light Ratings:** 12.6W, 25W, 31W, 19W, 56W, 71W  
**Rated Voltages:** 100-254Vac 50/60Hz  
**Product Features:**  
 - Operating life above 100,000 h (according to item)  
 - High lumen output - 5,000 lumens with 100% yield (according to item) - LED module with diffuser



**EVD Range**  
**Certification:** Ex II 2 D, Ex t IIIC T85°C Db IP66, -40°C to +60°C / Zones: 21 & 22  
**Light Ratings:** 18W, 36W, 58W  
**Rated Voltages:** 110-260Vac/Vdc 50/60Hz  
**Related Products:**  
 - Battery 2h - EVD EM (220-240Vac/Vdc 50/60Hz)  
 - Battery 3h with automatic test and backstart capabilities - EVD EMA (220-240Vac/Vdc 50/60Hz)



**EVTL Range - Industrial applications**  
**Certification:** IP66, -20°C to +55°C  
**Light Ratings:** 12.6W, 25W, 31W, 19W, 56W, 71W  
**Rated Voltages:** 100-254Vac 50/60Hz  
**Product Features:**  
 - Operating life above 100,000 h (according to item)  
 - High lumen output - 5,000 lumens with 100% yield (according to item) - LED module with diffuser



**EVT Range - Industrial applications**  
**Certification:** IP66  
**Light Ratings:** 18W, 36W, 58W  
**Rated Voltages:** 110-260Vac/Vdc 50/60Hz  
**Related Products:**  
 - Battery 2h - EVT EM (220-240Vac/Vdc 50/60Hz)  
 - Battery 3h with automatic test and backstart capabilities - EVT EMA (220-240Vac/Vdc 50/60Hz)



### Recessed lighting fitting

- Features:
- Steel housing and body painted with powderpaint
  - 6mm clear toughened glass panel (optional frosted for low lumen output)
  - Including accessory (cable gland)



**ESB Range**  
**Certification:** Ex II 2 G, Ex de IIC T4 Gb IP64, -40°C to +60°C / Zones: 1 & 2  
**Light Ratings:** 18W, 36W, 58W  
**Rated Voltages:** 220-240Vac/Vdc 50/60Hz  
**Product Features:**  
 - Battery 2h - ESB EM



**EST Range - Industrial applications**  
**Certification:** IP64  
**Light Ratings:** 18W, 36W, 58W  
**Rated Voltages:** 110-260Vac/Vdc 50/60Hz  
**Related Products:**  
 - Battery 2h - EST EM (220-240Vac/Vdc 50/60Hz)

