





DET NORSKE VERITAS

EC-TYPE EXAMINATION CERTIFICATE

- [2] COMPONENT INTENDED FOR USE IN EQUIPMENT OR PROTECTIVE SYSTEM INTENDED FOR USE IN POTENTIALLY EXPLOSIVE ATMOSPHERES DIRECTIVE 94/9/EC
- [3] EC-Type Examination Certificate Number: **DNV-2008-OSL-ATEX-42438U** Rev. 1
- [4] Component: **Junction box**
- [5] Applicant – Manufacturer or Authorized representative: **BARTEC TECHNOR AS**
- [6] Address: **Dusavikveien 39
4007 Stavanger
Norway**
- [7] This component and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.
- [8] DNV, notified body number 0575 in accordance with Article 9 of Council Directive 94/9/EC of 23 March 1994, certifies that this component has been found to comply with the Essential Health and Safety requirements relating to the design and construction of equipment and protective systems intended for use in potentially explosive atmospheres given in Annex II to the Directive.
The examination and test results are recorded in confidential reports listed in section 14.
- [9] Compliance with the Essential Health and Safety Requirements has been assured by compliance with:
EN 60079-0: 2012, EN 60079-7: 2007, EN 61241-0: 2006 and EN 61241-1: 2004
- [10] The sign 'U' placed after the certificate number indicates that this certificate must not be mistaken for a certificate intended for an equipment or protective system. This partial certification may be used as a basis for certification of an equipment or protective system.
- [11] This EC-TYPE EXAMINATION CERTIFICATE relates only to the design and construction of the specified component. If applicable, further requirements of this Directive apply to the manufacturer and supply of this component.
- [12] The marking of the equipment or protective system shall include the following:

 **II 2 G** **Ex e IIC Gb**
 **II 2 D** **Ex tD A21 IP66-68**

Høvik, 2014-10-03
for Det Norske Veritas AS

Asle Kaastad
Certification Manager



Notice: This Certificate is subject to terms and conditions overleaf. Any significant change in design or construction may render this Certificate invalid.

The digitally signed and electronically distributed document is the original and valid certificate. Ref.: www.dnv.com/digitalsignatures

If any person suffers loss or damage which is proved to have been caused by any negligent act or omission of Det Norske Veritas, then Det Norske Veritas shall pay compensation to such person for his proved direct loss or damage. However, the compensation shall not exceed an amount equal to ten times the fee charged for the service in question, provided that the maximum compensation shall never exceed USD 300.000. In this provision "Det Norske Veritas" shall mean the Foundation Det Norske Veritas as well as all its subsidiaries, directors, officers, employees, agents and any other acting on behalf of Det Norske Veritas.



[13]

Schedule

[14] **EC-TYPE EXAMINATION CERTIFICATE No.:** DNV-2008-OSL-ATEX-42438U

Rev. 1

Certificate History

Revision	Description	Report no.	Issue date
-	Original certificate	2009-3050	2009-09-10
1	Updated standard for gas, additional gasket material	2009-3050 r2	2014-10-03

[15] Description of component

The TNCN Junction Box comprises a stainless steel enclosure in various sizes up to max 1000*2200*XX. Enclosures can be delivered with cover screws, hinges and cover screws, hinges and quick locks.

Operating temperature for neoprene gasket and Lexan window: - 40°C to + 100°C.

Operating temperature for silicon gasket: -50°C to + 200°C.

Operating temperature for silicon gasket SIL 16: -50°C to +110°C

Type Identification

TNCN...

Degrees of protection (IP Code)

Option 1: IP66 / IP67. With silicone gasket IP68 (0.2 bar for 30 minutes)

Option 2:

For enclosure with silicone gasket, cover screws, cover screws and hinges, and extended Tamb to -50°C: IP66

For enclosure with silicone gasket SIL 16, cover screws, cover screws and hinges and extended Tamb to -50°C:

IP66/67, IP68 (0,2 bar for 30 min)

Variations:

- The enclosure can be equipped with windows in lid up to a max size of 0.3 m² for each window. Material of window can be either glass and/or Lexan. If Lexan window is used the following label must be present on the TNCN box "WARNING - POTENTIAL ELECTROSTATIC CHARGING HAZARD - SEE INSTRUCTIONS"
- Mounting of all types of approved transit frames is allowed.
- Several TNCN junction boxes may be mounted together using a special flange connection, or welded together.
- TNCN may be supplied with gland plates.
- TNCN may be supplied with one or several doors.

[16] **Project No.:** PRJC-59216-2008-PRC-NOR



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Descriptive Documents

Number	Title	Rev.	Date
CNX-373-5	Type label for TNCN Ex e, component certification	A	2013-11-06
CNX-277-4	Mounting of MCT in TNCN boxes/cabinet	A	2009-01-08
CNX-278-4	Mounting detail for window in TNCN boxes/cabinet	A	2009-01-08
CNX-276-4	Alternative locking details for TNCN Ex e Junction boxes	A	2009-01-08
CNX-280-4	Arrangement of flange plates or flange connection of TNCN junction boxes	A	2009-01-08
CNX-275-4	General arrangement door for TNCN	A	2009-01-08
CNX-279-4	Arrangement drawing for TNCN boxes/cabinet	A	2009-01-08
CNX-281-4	Connection of TNCN boxes/cabinets	A	2009-01-08
62-CNX-5	User manual TNCN Ex e Junction Box as component	B	2013-11-08

[17] Schedule of Limitations

If Lexan window is used there is a risk for electrostatic discharge, and the following label must be present on the TNCN box "WARNING - POTENTIAL ELECTROSTATIC CHARGING HAZARD - SEE INSTRUCTIONS"

[18] Essential Health and Safety Requirements

See part 9 of this certificate

END OF CERTIFICATE

If any person suffers loss or damage which is proved to have been caused by any negligent act or omission of Det Norske Veritas, then Det Norske Veritas shall pay compensation to such person for his proved direct loss or damage. However, the compensation shall not exceed an amount equal to ten times the fee charged for the service in question, provided that the maximum compensation shall never exceed USD 300.000. In this provision "Det Norske Veritas" shall mean the Foundation Det Norske Veritas as well as all its subsidiaries, directors, officers, employees, agents and any other acting on behalf of Det Norske Veritas.