

EC-TYPE EXAMINATION CERTIFICATE



- [1]
- [2] **Component intended for use on/in equipment or protective system intended for use in Potentially Explosive Atmospheres Directive 94/9/EC**
- [3] EC-Type Examination Certificate Number: **DEMKO 01 ATEX 0112700U Rev. 0**
- [4] Component: **Increased Safety Empty Enclosures**
- [5] Manufacturer: **Adalet/Scott Fetzer Co.**
- [6] Address: **4801 W. 150th Street, Cleveland, OH 44135 USA**
- [7] This Component and any acceptable variation thereto are specified in the schedule to this certificate and the documents therein referred to.
- [8] UL International Demko A/S, notified body number 0539 in accordance with Article 9 of the 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 design and construction of components intended for use in potentially explosive atmospheres given in Annex II to the Directive.
- The examination and test results are recorded in confidential report no. **12NK09263-01ATEX0112700U**
- [9] Compliance with the Essential Health and Safety Requirements has been assured by compliance with:
- EN 60079-0:2012 EN 60079-7:2007 EN 60079-31:2009**
- [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, examination and tests of the specified component in accordance with the Directive 94/9/EC. Further requirements of the Directive apply to the manufacturing process and supply of this component. These are not covered by this certificate.
- [12] The marking of the component shall include the following:

 **II 2 G Ex e II Gb**

 **II 2 D Ex tb IIIC Db IP66**

Certification Manager
Jan-Erik Storgaard

This is to certify that the Product(s) described herein has been investigated to the Standard(s) indicated on this Certificate, in accordance with the ATEX Equipment Certification Program Requirements. The certificate and test results obtained apply only to the Product(s) tested. UL has not established Follow-Up Service or other surveillance of the product. The Manufacturer is solely and fully responsible for conformity of all Product(s) described herein to all applicable standards, specifications, requirements and Directives.

Date of issue: 2013-05-08



Notified Body

UL International Demko A/S, Ballerup 5A, 2750 Ballerup, Denmark
Tel. +45 44 85 65 65, info.dk@ul.com, www.ul.com

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Schedule

[14]

EC-TYPE EXAMINATION CERTIFICATE No.

DEMKO 01 ATEX 0112700U Rev. 0

Report: 12NK09263-01ATEX0112700U

[15]

Description of Component:

The Type TN4/TN4X/TN4X6/CN4/CN4X/CN4X6 series of enclosures are empty enclosures for permanent installation of terminals. The enclosures are manufactured of polyester powder coated steel or brushed series 304 and 316L stainless steel respectively and are available in various sizes and depths. The enclosures consist of a cover, hinge assembly, body, grounding lug, gland plates, and gaskets. The enclosures may be mounted in a vertical or horizontal position and can be fitted with up to eight gland plates to provide future expansion and configuration.

Nomenclature for Type TN4 and CN4:

TN4	-18	18	08	U	-A	R0010
I	II	III	IV	V	VI	VII

I – Enclosure Material and Type

TN4 – Powder Coated Cold Rolled/Hot Rolled Steel Terminal Enclosure
 TN4X – Brushed Finish Stainless Steel Type 304 Terminal Enclosure
 TN4X6 – Brushed Finish Stainless Steel Type 316L Terminal Enclosure
 CN4 -- Powder Coated Cold Rolled/Hot Rolled Steel Terminal Enclosure
 CN4X – Brushed Finish Stainless Steel Type 304 Terminal Enclosure
 CN4X6 -- Brushed Finish Stainless Steel Type 316L Terminal Enclosure

II – Enclosure Length

XX – Any two-digit number that indicates the outside box length (in inches) (max. 60 in. (1530 mm))

III – Enclosure Width

XX – Any two-digit number that indicates the outside box width (in inches) (max. 36 in. (914 mm))

IV – Enclosure Depth

XX – Any two-digit number that indicates outside box depth (in inches) (max. 36 in. (914 mm))

V – Empty Enclosure Assembly

U – No Components Installed

VI – Gland Plate Location(s)*

A – Gland plate installed on top of box
 B – Gland plate installed on bottom of box
 C – Gland plate installed on left side of box
 D – Gland plate installed on right side of box

*Omit dashes when multiple gland plates are installed.

VII – Adalet Assembly Part Number

XXXXX – Any five digit alpha-numeric characters

Temperature range

The ambient temperature range is -50°C to +70 °C.

Installation instructions

Installation of conduit/cable entries must be in accordance with Drawing No. DS546M.

All cable entry devices and blanking elements must be certified for protection types 'e' and 'tb' and must have a minimum IP 66 rating.

All unused device openings must be fitted with a certified close-up plug of protection types 'e' and 'tb' and must have a minimum IP 66 rating.

For ambient temperatures below -10 °C and above +60 °C use field wiring suitable for both minimum and maximum ambient temperature.

Routine tests

None required.

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Descriptive Documents

Project Report No.: 12NK09263-01ATEX0112700U (Hazardous Location Testing)

Documents:

Description:	Document No.:	Rev. Level:	Date:
TN4/CN4 (X) (X6) Increased Safety Enclosure Series	DS546M	E	2013-04-25
Alternate Construction Design Guide for TN/CN4 Enclosures	DS654	D	2013-04-29
Installation Sheet TN/CN Series Empty Enclosures (3 pages)	DS650	D	2013-05-07
Ground Stud for Terminal Enclosures	18812	E	2000-11-29
ATEX Nameplate for TN/CN Increased Safety Enclosures (Empty Enclosures)	M3322	G	2013-05-07



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Schedule

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EC-TYPE EXAMINATION CERTIFICATE No.

DEMKO 01 ATEX 0112700U Rev. 0

Report: 12NK09263-01ATEX0112700U

Bisco Silicone Gasket

M1424

C

2012-06-20

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Schedule of limitations:

- Installation of conduit/cable entries must be in accordance with Drawing No. DS546M.
- All cable entry devices and blanking elements must be certified for protection types 'e' and 'tb' and must have a minimum IP 66 rating.
- All unused device openings must be fitted with a certified close-up plug of protection types 'e' and 'tb' and must have a minimum IP 66 rating.
- The suitability of all entries should be considered in the end use application.
- The gaskets used in the device have a service temperature range of -50°C to +110°C.

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Essential Health and Safety Requirements

Concerning ESR this Schedule verifies compliance with the Annex III of 94/9/EC directive only. The manufacturer's Declaration of Conformity declares compliance with other relevant requirements and Directives.

Additional information

The TN4 and CN4 empty enclosures have in addition passed the tests for Ingress Protection to IP 66 in accordance with EN60529: 1991/A1 2000.

The manufacturer shall inform the notified body concerning all modifications to the technical documentation as described in ANNEX III to Directive 94/9/EC of the European Parliament and the Council of 23 March 1994.

