

# EU-TYPE EXAMINATION CERTIFICATE



[1]

[2]

**Equipment or Protective System intended for use  
in Potentially Explosive Atmospheres  
Directive 2014/34/EU**

[3]

EU-Type Examination Certificate Number: **DEMKO 13 ATEX 1209263X Rev.4**

[4]

Product: **Increased Safety Terminal Enclosures**

[5]

Manufacturer: **Adalet/Scott Fetzer Co.**

[6]

Address: **4801 W. 150<sup>th</sup> Street, Cleveland, OH 44135 USA**

[7]

This product 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 17 of the Council Directive 2014/34/EU of 26 February 2014, certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to design and construction of products 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. **4789255419.2.1**

[9]

Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

**EN 60079-0:2012+A11:2013**

**EN 60079-7:2015**

**EN 60079-31:2014**

[10]

If the sign "X" is placed after the certificate number, it indicates that the product is subject to special conditions for safe use specified in the schedule to this certificate.

[11]

This EU-Type Examination Certificate relates only to the design and construction of the specified product. Further requirements of the Directive apply to the manufacturing process and supply of this product. These are not covered by the certificate.

[12]

The marking of the product shall include the following:

 **II 2 G Ex eb IIC T6...T4 Gb**

 **II 2 D Ex tb IIIC T120°C Db IP66**

**Certification Manager**

Jan-Erik Storgaard

This is to certify that the sample(s) of the Product described herein ("Certified Product") has been investigated and found in compliance with the Standard(s) indicated on this Certificate, in accordance with the ATEX Product Certification Program Requirements. This certificate and test results obtained apply only to the product sample(s) submitted by the Manufacturer. UL did not select the sample(s) or determine whether the sample(s) provided were representative of other manufactured product. 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 to all applicable Standards, specifications, requirements or Directives. The test results may not be used, in whole or in part, in any other document without UL's prior written approval.

**Date of issue:** 2013-07-30

**Re-issued:** 2019-12-16



**Notified Body**

UL International Demko A/S, Borupvang 5A, 2750 Ballerup, Denmark  
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## Schedule

[14]

# EU-TYPE EXAMINATION CERTIFICATE No.

DEMKO 13 ATEX 1209263X Rev. 4

[15]

### Description of Product

The Type TN series of enclosures are junction boxes provided with increased safety terminal blocks. These enclosures are manufactured of powder coated cold rolled steel, brushed finish stainless steel 304 and brushed finish steel 316L respectively and are available in various sizes and depths. The boxes 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.

Nomenclature for type *TN*:

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

#### I – Enclosure Material

TN4 – Powder Coated Cold Rolled/Hot Rolled Steel  
 TN4X – Brushed Finish Stainless Steel 304  
 TN4X6 – Brushed Finish Stainless Steel 316L

#### II – Enclosure Length

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

#### 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 the outside box depth (in inches) (max. 36 in. (914 mm))

#### V – Gland Plate Location(s)\*

A – Gland plate on top side  
 B – Gland plate on bottom side  
 C – Gland plate on left side  
 D – Gland plate on right side  
 \*Omit dashes when multiple Gland Plates are installed

#### VI – Adalet Assembly Part Number

XXXXX – Any five digit alphanumeric characters

### Temperature range

#### Ambient temperature range

-50°C to +40 °C  
 -50°C to +55°C  
 -50°C to +60 °C  
 -50°C to +70 °C

#### Temperature class

T6  
 T5  
 T4  
 T4

### Electrical data

Maximum working voltage: 1.1 kV

### Routine tests

Routine tests according to EN 60079-7 cl. 7.1 are not required, as they are performed for the terminal blocks detailed on DS589TB under their own certification.

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### Descriptive Documents

The scheduled drawings are listed in the report no. provided under item no. [ 8 ] on page 1 of this EU-Type Examination Certificate.

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## Schedule

[14]

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### Specific conditions of use:

- This certificate applies to equipment without cable/conduit entries. When installing cable or conduit entries, the cable/conduit entries must be certified as increased safety or flameproof, for protection type 'tb', and have a minimum IP66 rating. All unused conduit openings must be fitted with a certified close up plug equivalent of the apparatus and must be marked with an IP66 rating.
- The number of conductors entering the enclosure plus the number of internal connections (bridges and ground conductors are not counted) shall not exceed that of the Enclosure Size Terminal Content sheets.
- After installation, all creepage distances and clearances shall be according to Table 1 in EN 60079-7:2014.
- All conductors/cables shall be copper and shall be suitable for: 80°C when  $-50^{\circ}\text{C} \leq T_a \leq +40^{\circ}\text{C}$ , 95°C when  $-50^{\circ}\text{C} \leq T_a \leq +55^{\circ}\text{C}$ , 100°C when  $-50^{\circ}\text{C} \leq T_a \leq +60^{\circ}\text{C}$ , 110°C when  $-50^{\circ}\text{C} \leq T_a \leq +70^{\circ}\text{C}$ .
- Each terminal block shall not be specified to accommodate more than one individual conductor in a clamping point unless specifically designed and assessed for doing so.
- For screwless connections intended for Class 5 or Class 6 fine stranded conductors according to EN 60228, the fine stranded wire shall be equipped with a ferrule or the termination shall have a method to open the clamping mechanism so that the conductors are not damaged during installation of the conductor.
- The end user shall provide bonding means as necessary.
- See enclosure outline for conduit/cable layout information, minimum wire bending requirements, and minimum electrical clearance.
- To minimize the risk of electrostatic charge, provisions shall be made for adequate grounding and equipment shall be installed in such a manner so that accidental discharge shall not occur.

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### Essential Health and Safety Requirements

The Essential Health and Safety Requirements (EHSRs) covered by the standards listed at item 9.

### Additional information

The TN4 series of populated terminal enclosures have in addition passed the tests for Ingress Protection to IP 66 in accordance with EN60529:1991+A1:2000+A2:2013.



The trademark  will be used as the company identifier on the marking label

The manufacturer shall inform the notified body concerning all modifications to the technical documentation as described in Annex III to Directive 2014/34/EU of the European Parliament and the Council of 26 February 2014.

Accredited by DANAK under registration number 7011 to certification of products.