

TYPE EXAMINATION CERTIFICATE



- [1]
- [2] **Equipment or Protective System intended for use in Potentially Explosive Atmospheres Directive 2014/34/EU**
- [3] Type Examination Certificate Number: **DEMKO 18 ATEX 2029X Rev. 1**
- [4] Product: **Festoon-Ex Series, Series 30 and Series 41**
- [5] Manufacturer: **GIOVENZANA International B.V.**
- [6] Address: **WTC Strawinskylaan 1105, 1077 XX Amsterdam, The Netherlands**
- [7] This equipment and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.
- [8] UL International Demko A/S certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres given in Annex II to Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014.
- The examination and test results are recorded in confidential report no. **4789281436.1.1**
- [9] Compliance with the Essential Health and Safety Requirements has been assured by compliance with:
- EN ISO 80079-36:2016**
- except in respect of those requirements listed at item 18 of the Schedule.
- [10] If the sign "X" is placed after the certificate number, it indicates that the product is subject to the Specific Conditions of Use specified in the schedule to this certificate.
- [11] This Type examination certificate relates only to the design of the specified product, and not to specific items of product subsequently manufactured.
- [12] The marking of the product shall include the following:

 II 2 G Ex h IIB T5 Gb

 II 2 D Ex h IIIC T85°C Db

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: 2019-03-18

Re-issued: 2020-02-18



Certification Body

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

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Description of Product

The Festoon-Ex family products are a system composed by the different kind of trolleys able to transfer cables moving it in linear translation. The trolleys are not electric powered but are mechanical equipment each one that could be moved by a translating movement source (e.g. by a motor that transfer movement to the trolleys by brackets). The trolleys are equipped with shaped saddle able to sustain the cables that leanings against the saddle itself forming a curve.

The Festoon-Ex system is composed by 2 Series: Series 30 and Series 41, realized with components/equipment in non-metallic materials or galvanized steel. Series 41 may also have equipment in stainless steel.

Series 30 and 41 trolleys are intended to move by plastic or galvanized steel wheels on a galvanized steel "C"- rail bar fixed along the movement line. The signal cable is supported by the trolley that slides inside the "C"-rail bar.

One of the most popular intended uses is the overhead crane where the festoon lines transmit the signals to control the movement of the crane.

Nomenclature:

Series	Assembly codification	Description
30	30607005Ex	End stop
	30607007Ex	Towing trolley
	30607010Ex	Metallic Trolley (metallic wheels)
	30607009Ex	Metallic Trolley (plastic wheels)
	30607011Ex	Non-metallic Trolley
	30607021Ex	Non-metallic trolley for circular cable
	30607020Ex	Head Clamp (saddle 55mm)
	30607006Ex	Head Clamp (saddle 76mm)
	30607022Ex	Round cable Swing Trolley L30 (Cable Ø26-40)
	30607023Ex	Swing T. Trolley L30 (Cable Ø26-40)
	30607025Ex	Secondary Round Cable Trolley (Cable Ø10-25)
	30607026Ex	Secondary Round Cable Trolley (Cable Ø26-40)
	30607029Ex	Trolley without plug/socket
	41	30602038Ex
30602091Ex		Towing trolley
30602020Ex		Towing trolley (double)
30602086Ex		Metallic Trolley (metallic wheels)
30602071Ex		Head Clamp (saddle 55mm)
30602072Ex		Head Clamp (saddle 76mm)
30602068Ex		End stop (stainless steel series)
30602066Ex		Head Clam (saddle 55mm) (stainless steel series)
30602044Ex		Round cable Swing Trolley L41 (Cable Ø10-25)
30602045Ex		Round cable Swing Trolley L41 (Cable Ø26-40)

The "C"-rail bar, the support arm and support bracket, the joint between bars and the end cap are supplied by GIOVENZANA. Being fixed metal parts used only to support the equipment they are not listed as part of this certification.

Temperature range

The ambient temperature range is -25°C to +80°C.

Rating

The maximum speeds admitted and maximum loads admitted for each trolley are reported in the following table:

Type of trolley:	Series 30		Series 41	
	Max Load	Max Speed	Max Load	Max Speed
Non-metallic Trolley	15 Kg	0.83 m/s (50 m/min)	20 Kg	0.83 m/s (50 m/min)
Metallic Trolley	30 Kg	0.9 m/s (54 m/min)	35 Kg	0.9 m/s (54 m/min)

C-rail bar: Max. Length 4m.

Bracket: Max. Length 0.8m.

Maximum distance allowed between 2 supports of Track support bracket or Support arm bracket or Track support bracket for ceiling: 1 m.

Routine tests

N/A

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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 Type Examination Certificate.

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Specific conditions of use:

- Ambient temperature range: $-25^{\circ}\text{C} \leq T_{\text{amb}} \leq +80^{\circ}\text{C}$.
- Only rail system supplied by GIOVENZANA International B.V. shall be used.
- The minimum distance between the floor and the towing trolley shall be 3 m.
- Do not paint or cover with non-conductive layers any equipment composing the trolley system.

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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 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.