SINGLE-ACTING ELECTROMECHANICAL ACTIVATION

EVO

INSTRUCTIONS FOR USE AND MAINTENANCE

Note: This manual displays partial information on the instructions for use and maintenance of this product. Please refer to the customer area in Dynatech's website in order to consult the full manual; http://customers.dynatech-elevation.com/

ZERTIFIKAT ◆ CERTIFICATE ◆ 認證證書 ◆ СЕРТИФИКАТ ◆ CERTIFICADO ◆ CERTIFICAT

TYPE EXAMINATION CERTIFICATE

ELEVATOR COMPONENT / SYSTEM

Document number:	**ATI / CA029 rev: 2**
Certification Body:	**TÜV SÜD ATISAE S.A.U.** Ronda de Poniente, 4 ES 28760 Tres Cantos MADRID (ESPAÑA)
Product:	**Electrical activation means for the safety gears. Only downwards activation**
Type:	**e-ASG-EVO**
Manufacturer:	**DYNATECH. DYNAMICS AND TECHNOLOGY S.L. P.I. PINA DE EBRO, SECTOR C PARCELA 9 50750 ZARAGOZA**
Certificate Holder:	**DYNATECH. DYNAMICS AND TECHNOLOGY S.L. P.I. PINA DE EBRO, SECTOR C PARCELA 9 50750 ZARAGOZA**
Date of submission:	**2026.02.17**
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Standards of reference: (1)	**EN 81-20:2020; [5.6.2] [6.3.4]; EN 81-21:2022;**
Report number:	**8107068735 (2026.03.09) 8105687914 (2025.01.28) 8104560496 (2023.10.27)**
Expiry date:	**indefinite (please refer to tech. annex section 2.5)**

Statement: Remote car safety gear activation means assessed in this certificate may be used in connection with an electronic overspeed governor and DYNATECH's safety gear type ASG. This certificate will be mentioned as an annex in the certificate of the safety gears that are allowed and shall be integrated in the design of the elevator where the system, together with the governor, is used. The Notified Body intervening in the certification procedure of the of the complete elevator, whichever it is, must assess the integration of the system with governor and controller.

For legal reasons, provided that this equipment is not a safety component according to annex III of Lifts Directive 2014/33/UE, this agency cannot issue an EU type examination certificate. features of the system.

This certificate may be used as justification of the features of the system.

(1) Only for the clauses mentioned in the technical annex. There are deviations when applying 5.6.2.2.1.1.d) of EN 81-20, according to what is stated in the annex.

This certificate has a technical annex with reference ATI/CA029 rev 2.
This certificate is digitally signed. Only the document issued in pdf format with its signature is legally valid.

ORGANISMO NOTIFICADO 0053

DAS/ 000959-1

José Luis Arias
Technical lift coordinator
(substitute)

Sede Técnica: Ronda de Poniente, 4 - P.E. EURONOVA - 28760 Tres Cantos (Madrid) - España
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REVISION	03	DATE	21/05/2026	PREPARED/APPROVED BY	Dynatech
SECTION	DESCRIPTION				EFFECTIVE CHANGE DATE
1.1.3 / 7	230 VAC reset coil is included				21/05/2026
REVISION	02	DATE	06/02/2025	PREPARED/APPROVED BY	Dynatech
SECTION	DESCRIPTION				EFFECTIVE CHANGE DATE
	A new version of the certificate is included where the EN 81-21 standard is mentioned				06/02/2025
REVISION	01	DATE	14/06/2024	PREPARED/APPROVED BY	Dynatech
SECTION	DESCRIPTION				EFFECTIVE CHANGE DATE
3.1	Adjusting gauge description is included				14/06/2024
REVISION	00	DATE	19/12/2023	PREPARED/APPROVED BY	Dynatech
SECTION	DESCRIPTION				EFFECTIVE CHANGE DATE
	Initial document				Not applicable

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1 DESCRIPTION

The EVO single-acting electromechanical activation for the ASG safety gear consists of a moving plate activated by a spring, which moves the braking roller from the roller holding or lift operating position to the pre-engagement position.

Therefore, the safety gear is activated when the activation spring brings the safety gear roller closer to the pre-engagement position. For normal lift operation, the safety gear is reset by a linear solenoid while a holding coil keeps the actuation mechanism in its not-locked or roller holding position.

Below is a diagram of the eASG EVO electromechanical safety gear, formed by the EVO single-acting electromechanical activation and the ASG safety gear (Figure 1).

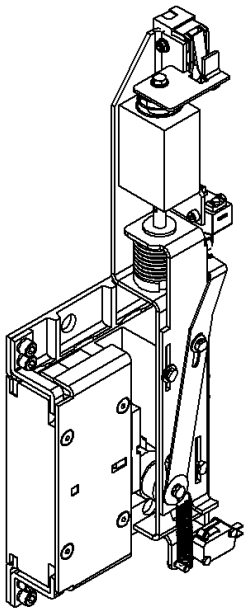

Figure 1 eASG EVO electromechanical safety gear

The EVO electromechanical activation can operate the entire range of Dynatech ASG (single acting) safety gear. Activation is common for any model of safety gear in this range. For further information on the safety gear (P+Q, type of guide, etc.), please read the manuals corresponding to the ASG range.

Figure 2 shows the part corresponding to the EVO single acting electromechanical activation and that corresponding to the ASG safety gear.

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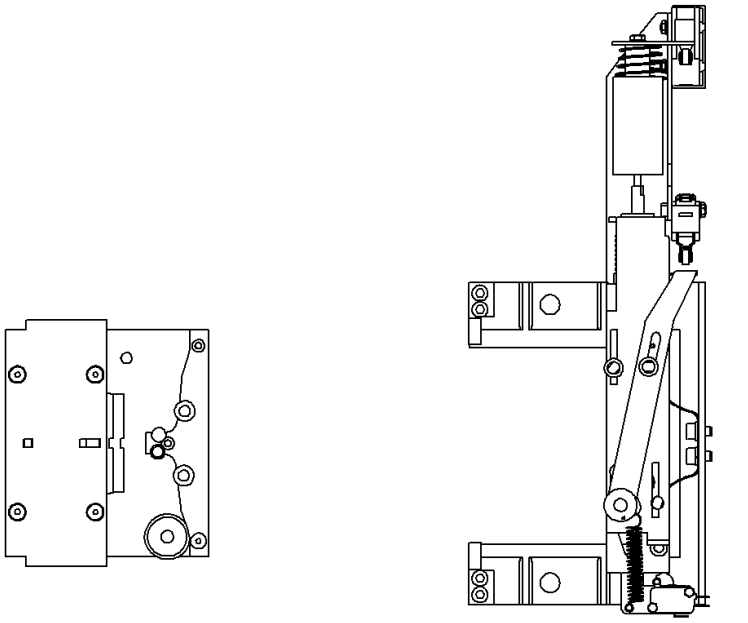

Figure 2. Difference between activation and safety gear

Given its design, the safety gear has the feature of engaging itself when the roller touches the guide. As a result, when the holding coil is not powered, the activation spring forces the roller to touch the guide rail. This means that, if the car were to move downwards, the safety gear would immediately and automatically engage itself. **This is known as positive safety.**

There are therefore 3 modes in the activation: Holding, pre-engagement and locked or engaged.

1.1 Options

EVO tripping can be configured with different options if so requested to better adapt to customer needs:

1.1.1 2NC contact

If required, the PIZZATO MK V11F45 brand safety switch with an NC contact can be replaced by a 2 NC safety switch.

This option can be requested in the order as: With OMRON D4N 4232 contact or PIZZATO FR 1155 M2.

1.1.2 Reset coil monitoring

Information on the reset coil status (on or off) can be obtained via a safety contact that the customer can specify in the order.

Request this option in the order as: With reset coil monitoring.

1.1.3 230 VAC Reset coil

Both the reset coil and the holding coil operate at 24 V. However, a 230 V AC reset coil can be installed as optional.

The standard reset coil operates at 24 V and consumes 5.2 A. However, the 230 V AC connects directly to the 230 V AC mains voltage and consumes a 0.64 A current. Given that both coils have the same power, the consumption in amps is much lower than the 24 V DC model.

You can request this option in your order as: With 230 VAC reset coil

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