



**SINGLE-ACTING ELECTROMECHANICAL  
ACTIVATION  
DA**

**INSTRUCTIONS FOR USE AND MAINTENANCE**



ATISAE

# TYPE EXAMINATION CERTIFICATE

## ELEVATOR COMPONENT / SYSTEM

Document number:	ATI / CA020	rev: 0
Certification Body:	TÜV SÜD ATISAE S.A.U. Avda. de los Artesanos, 20 E 28760 Tres Cantos MADRID (ESPAÑA)	
Product:	Electrical activation means for the safety gears. Only downwards activation	
Type:	DA	
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:	24.01.2020	
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Standards of reference: <sup>(1)</sup>	EN 81-20:2014; [5.6.2] [6.3.4]	
Report number:	8101277506 (23.06.2020)	
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, and since this means is not a safety component according to annex III of Lifts Directive 2014/33/UE, this agency cannot issue an EU type examination certificate.

This certificate may be used as justification of the features of the device together with the safety gears, when assembled within the scope of the elevator.

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

This document consists of this cover, a technical annex with 5 pages and 2 drawings. It shall be reproduced with all its pages to be considered valid

C/OTR/003529



Bruno Cano Hernández  
Director Técnico Elevación



CONTENTS

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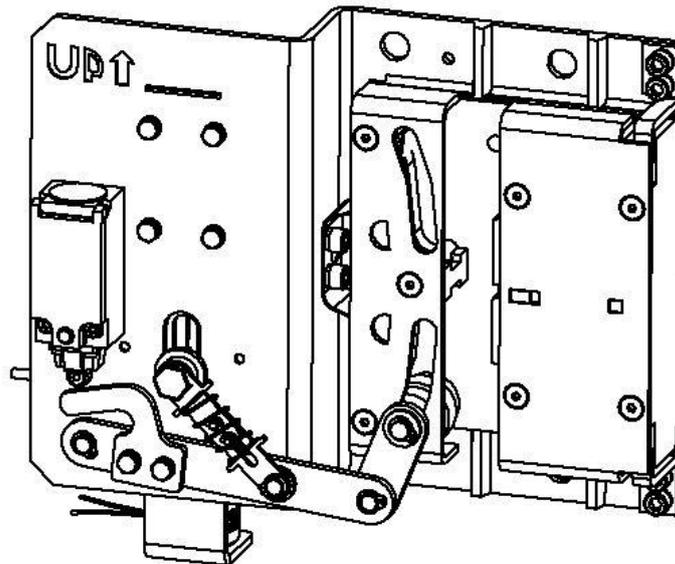
<b>1</b>	<b>DESCRIPTION .....</b>	<b>3</b>
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## 1 DESCRIPTION

The “direct-acting” (hereinafter known as D.A.) electromechanical activation for ASG safety gears consists of a set of spring-activated articulated levers that move the braking roller from the roller holding position 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 operations, the safety gear is reset by a linear solenoid and a holding coil keeps the actuation mechanism in its not-locked or roller holding position.

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



*Figure 1 eASG electromechanical safety gear*

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

Figure 2 shows the part corresponding to the D.A. direct-acting electromechanical activation and the part corresponding to the ASG safety gear.

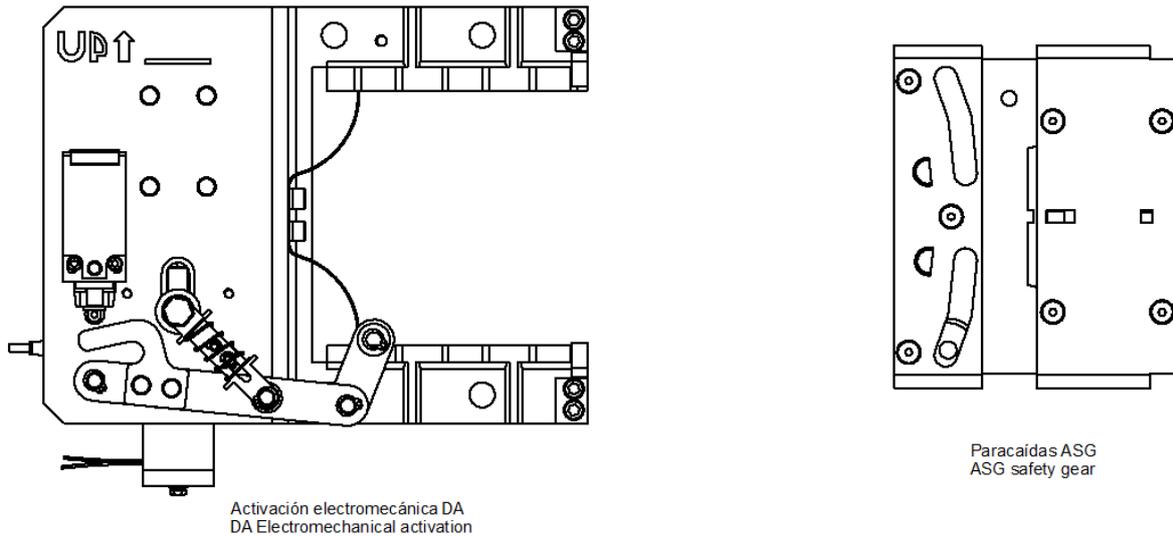


Figure 2. Difference between activation and safety gear

Given its design, the safety gear has the feature of engaging itself when the roller touches the guide rail. Due to this, on these electromechanical models, when the 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.**