

BI-DIRECTIONAL ELECTROMECHANICAL ACTIVATION DA - UD

INSTRUCTIONS FOR USE AND MAINTENANCE

認證證書

CERTIFICATE

ZERTIFIKAT 🔶



TYPE EXAMINATION CERTIFICATE

ELEVATOR COMPONENT / SYSTEM

Document n	umber:	ATI / CA021	rev: 4
Certification Body:		TÜV SÜD ATISAE S.A.U. Ronda de Poniente, 4 ES 28760 Tres Cantos MA	DRID
Product:		Electrical activation means for the safety gears. downwards & upwards activation	
Туре:		DA-UD (eASG-UD)	
Manufacturer:		DYNATECH. DYNAMICS AND TECHNOLOGY S.L. P.I. PINA DE EBRO, SECTOR C PARCELA 9 ES 50750 ZARAGOZA.	
Certificate Holder:		DYNATECH. DYNAMICS AND TECHNOLOGY S.L. P.I. PINA DE EBRO, SECTOR C PARCELA 9 ES 50750 ZARAGOZA.	
Date of subn	nission:	2025.01.10	
Issuing date:		2025.01.28	
Standards of	reference: (1)	EN 81-20:2020; [5.6.2] [6.3.4]; EN 81-21:2022;	
Report number:		8101277506 (06.23.2020); 8102654515 (09.01.2021); 8103622462 (09.20.2022); 8105007024 (02.20.2024); 8105687914 (2025.01.28)	
		8105687914 (2025.01.28)	
Expiry date:		indefinite (please refer to	tech. annex section 2.5)
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DA

ΤÜV Organismo de Control acreditado por ENAC con acreditación nº C-PR/445.

EC12.04.F02-ES v. 2023-05-12

REV:07



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1 DESCRIPTION

The bi-directional electromechanical activation of the ASG UD safety gear is described in this document, consisting of a set of articulated levers activated by a spring. This spring moves the rollers from the lift operating position or holding position to the lock engagement position.

For normal lift operations, the safety gear is reset by a linear solenoid and a holding coil keeps the tripping mechanism in its not-locked or roller holding position.



Figure 1 eASG UD bi-directional electromechanical safety gear

Activation is common to any ASG UD safety gear model.

Figure 2 shows the part corresponding to the DA-UD electromechanical activation and the part corresponding to the ASG UD safety gear. The activation unit plus safety gear is known as eASG UD.



Figure 2 Difference between activation and safety gear

Given its design, the safety gear has the feature of engaging itself when the rollers touch the guide rail. Due to this, on this electromechanical model, when the coil is not powered the activation spring forces the rollers to touch the guide rail. This means that, if the car were to move in either direction, the safety gear would immediately and automatically engage itself. **This is known as positive safety.**



1.1 Options

The DA UD tripping can be configured with different options if requested in the order, to better adapt to the customer's needs:

1.1.1 Coil power supply outlet position

The coil supply outlet is supplied in a central position as standard; however, it can be requested positioned on the side.





Central outlet: The coil supply output is located in the forward position of the tripping. **Side outlet**: The coil supply outlet is located at the rear position of the tripping, towards the upper part.

This choice implies that the coil supply is located at the front or rear of the tripping.

You can request this option in your order as: Front or side coil outlet.

1.1.2 2NC safety contact

If required, the standard OMRON D4N-4132 brand safety switch with one NO contact and one NC contact can be replaced by the same brand safety switch with 2 NC, whose reference is D4N 4232.

You can request this option in your order as: With contact D4N 4232.

1.1.3 Small size safety contact

If required, the OMRON D4N 4132 brand safety switch with a NO contact and an NC contact can be replaced by a PIZZATO brand safety switch with 1NC whose reference is MK V11F45.

This is a more compact limit switch and can help avoid interference with other parts of the installation in confined spaces.

NB. It should be remembered that this contact consists of an internal contact that can be NC or NO, but never both at the same time.

You can request this option in your order as: With contact MK V11F45.

1.1.4 Uncoupled coils

By default, DA tripping will be supplied as shown in Figure 4 However, as an option, tripping with the coils uncoupled can also be supplied: see Figure 3 These mechanisms will be explained later.





1.1.5 230 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 3.1 A. However, the 230 V AC connects directly to the 230 V AC mains voltage and consumes a 0.389 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