

EU-TYPE EXAMINATION CERTIFICATE

According to Annex IV, Part A of Directive 2014/33/EU

Certificate No.:

Notified Body:

Certificate Holder:

of the Test Sample:

(Manufacturer of Serial Production -

Manufacturer

see Enclosure)

Product:

EU-DL 807-2

TÜV SÜD Industrie Service GmbH Westendstr. 199 80686 Munich - Germany Identification No. 0036

Hans & Jos. Kronenberg GmbH Kurt-Schumacher-Str. 1 51427 Bergisch Gladbach - Germany

Hans & Jos. Kronenberg GmbH Kurt-Schumacher-Str. 1 51427 Bergisch Gladbach - Germany

Various locking devices with bolt type locking element, (without means used to prove the position of a locking element) and with motor drive as part of a locking device for landing doors

Type:

Directive:

Reference Standards:

Test report:

Outcome:

DL1MO and DL2MO

2014/33/EU

EN 81-20:2020 EN 81-50:2020

No. EU-DL 807-2, 808-2 dated 2023-09-11

The safety component conforms to the essential health and safety requirements of the mentioned Directive if the requirements of the annex to this EU-type examination certificate are kept.

Date of Issue:

2023-09-11

Achim Janocha Notified Body LCC





1 Scope of application

1.1 Locking device of types DL1MO and DL2MO with bolt type locking element (without means used to prove the position of a locking element) and with motor drive operation as part of a locking device for landing doors. The use for certain door types and the additional parts involved in the locking of landing doors and their monitoring are not part of this type examination. The bolt type locking element immediately closes the door leaf.

The locking device is alternatively manufactured or used in various types and installation positions and with additional control switches (auxiliary switches).

The use of a door switch is required for the external fail-safe device. Alternatively, the door switch can be mounted on a mounting plate outside the interlocking device housing.

Main components of the locking device in the basic version:

- Sliding bolt with bevelled edge (mounted in the interlock housing)
- Locking device switch with non-latching contacts (integrated in the interlock housing)
- Motorised actuation of the locking device
- Gear unit
- Kinematic coupling
- Pulley
- Emergency unlocking device with unlocking triangle or with lever or connection for pull rope
- 1.2 The locking device may only be used as part of a locking device for landing doors, if the assignment of the locking device to a specific door type and for potentially existing additional parts, which are involved in the locking action and its monitoring, a separate EU-Type Examination certificate according to the lift directive 2014/33/EU exists.
- 1.3 Nominal values of the electrical safety devices (lock contact):

Alternating current	230 V, 2 A
Direct current	200 V, 2 A

2 Conditions

- 2.1 The approval drawing no. 06.50.026 dated 2023-07-19 with certification stamp dated 2023-09-11 must be enclosed to this EU-Type Examination certificate and its annex. The written notes and dimension details contained therein must be observed.
- 2.2 The locking device must engage overall at least 8 mm (resp. at least 7 mm at the moment of connection of the electric safety device of the locking device) into or behind the part which is to be locked.
- 2.3 At the locking device, types DL1MO and DL2MO shall be a label with the information necessary for the component's identification with the name of the manufacturer, EU-Type Examination sign and details of type.
- 2.4 The closing position of the landing door must be supervised by a separate electric safety device (door switch). This EU-type examination does not include the test of this electric safety device.
- 2.5 It must be ensured by the lift control with a two-channel safety circuit, according to EN 81-20, 5.11.2.2 that only the landing door gets unlocked behind which the car is in the unlocking zone.
- 2.6 In case of a closed shaft there is the risk that testing and maintenance staff becoming trapped. For this reason, there is an option of an emergency unlocking in the shaft (a triangle or optional a lever on the cover side of the locking device).
- 2.7 An additional device shall prevent the lift from being moved with door open or unlocked by one single action not according to normal operation (means used to prove the position of a locking element).

Annex of the EU-Type Examination Certificate No. EU-DL 807-2 of 2023-09-11



- 2.8 Securing the screwed connections for the fixation of the locking device against automatic loosening.
- 2.9 If the emergency release is located more than 2 m above the floor of the landing or 1.80 m above the pit ladder, an additional emergency release must be provided at a suitable height.
- 2.10 Deviations of the locking device from the approval drawings like
 - types of design,
 - mounting positions,
 - actuating devices or
 - additional control switches

are not allowed.

2.11 The EU-Type Examination certificate may only be used in connection with the pertinent annex and the enclosure (list of the authorised manufacturers of series production). This enclosure shall be updated and re-edited following information of the certificate holder.

3 Remarks

- 3.1 This EU-Type Examination was issued on basis of the following harmonized standards:
 - EN 81-20:2020, 5.3.9.1
 - EN 81-50:2020, 5.2

In case of changes resp. amendments of the above-named standards resp. advancements of the state of the art, a revision of this EU-Type Examination Certificate will be necessary.

- 3.2 The locking devices, type DL1MO and DL2MO with bolt type locking element (without means used to prove the position of a locking element) as part of a locking device for landing doors can be used as locking part for car door locking devices. The complete car door locking device must prove compliance with the requirements of EN 81-20:2020 and EN 81-50:2020.
- 3.3 Electrical safety devices for monitoring the closing position of the landing door (door switch) in a different arrangement or design than in the data sheet according to point 2.1 of this annex, may be used if they meet the requirements of the relevant EU directives.
- 3.4 The test results refer only to the safety component "locking device for landing doors" and the associated EU-type examination.
- 3.5 This EU-type examination does not cover the assessment of these and other measures against the drawing in of children's hands for sliding landing doors with glass panels and the required gaps between the door panels and frames.
- 3.6 The measures and their impact on the limitation of the closing and moving force of the horizontal sliding landing doors are not part of the EU-type examination of the locking device.
- 3.7 This EU-type examination certificate does not take into account compliance with the conditions of the IP-protection class for electrical equipment according EN 60529.
- 3.8 The Certification Body LCC of the TÜV SÜD Industrie Service GmbH is a Certification Body accredited by DAkkS according to DIN EN ISO 17065. The accreditation is only valid for the scope of accreditation listed in the Annex of the certificate D-ZE-14153-03-02.

Enclosure to the EU-Type Examination Certificate No. EU-DL 807-2 of 2023-09-11



Manufacturers serial production – production sites (stated: 2023-07-21):

CompanyHans & Jos. Kronenberg GmbHAddressKurt-Schumacher-Str. 151427 Bergisch Gladbach - Germany

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Bestellangaben / order information codes:

DL1MO	Detäkierus erusik Elektronen et en führe in fläre i ter Tähnen.		
	Betätigung mit Elektromotor für einflügelige Türen		
	actuation with electric motor for single-leaf doors		
DL2MO	Betätigung mit Elektromotor für zweiflügelige Türen		
	actuation with electric motor for double-leaf doors		
Grundgerät mit Fehlschl	ließsicherung / basic device with faulty closure device		
DLF1MO	Betätigung mit Elektromotor für einflügelige Türen		
	actuation with electric motor for single-leaf doors		
DLF2MO	Betätigung mit Elektromotor für zweiflügelige Türen		
	actuation with electric motor for double-leaf doors		
Ausführung / operating	direction		
-L	Linksausführung / left-hand operation		
-R	Rechtsausführung / right-hand operation		
Schutzart und Gebrauch	Islage / level of protection and customary position		
ohne Angabe	IP40		
without specification			
-W	IP54 (horizontale Gebrauchslage / horizontal customary position)		
-WV	IP54 (vertikale Gebrauchslage / vertical customary position)		
Bolzenlänge / length of l	latch bolt		
Х	Maß zwischen Türverschluss und Türkante (X ≥ 5 mm)		
	dimension between door interlock and door edge (X \ge 5 mm)		
Anschrägung des Riegel	bolzens / bevel of latch bolt		
ohne Angabe	Anschrägung für Bolzen ohne Fehlschließsicherung 45° x 16 mm		
-	und für Bolzen mit Fehlschließsicherung 35° x 5 mm		
without specification	bevel for latch bolt without faulty closure device 45° x 16 mm		
without specification	bevel for latch bolt without faulty closure device 45° x 16 mm and for latch bolt with faulty closure device 35° x 5 mm		
without specification (ANS0)			
	and for latch bolt with faulty closure device 35° x 5 mm		
(ANS0) (ANS)	and for latch bolt with faulty closure device 35° x 5 mm keine Anschrägung / without bevel		
(ANS0) (ANS)	and for latch bolt with faulty closure device 35° x 5 mm keine Anschrägung / without bevel Sonderanschrägung / special bevel		
(ANS0) (ANS) Position der Anschrägur	and for latch bolt with faulty closure device 35° x 5 mm keine Anschrägung / without bevel Sonderanschrägung / special bevel ng / position of the bevel		
(ANS0) (ANS) Position der Anschrägun (u)	and for latch bolt with faulty closure device 35° x 5 mm keine Anschrägung / without bevel Sonderanschrägung / special bevel ng / position of the bevel bodenseitig (unten) / base side (below)		
(ANS0) (ANS) Position der Anschrägun (u) (o)	and for latch bolt with faulty closure device 35° x 5 mm keine Anschrägung / without bevel Sonderanschrägung / special bevel ng / position of the bevel bodenseitig (unten) / base side (below) deckelseitig (oben) / cover side (above)		

Sachverständige(r) / Expert

Erstellt am / created on: 19.07.2023 / H. Klaus

Bestellangaben / order information codes:

Notentriegelung / emergency release

.1		bodenseitig und deckelseitig / base side and cover side
.5		extern über Seilzug oder Handbetätigung / external by cable pull or manual operation
.14		extern über Bowdenzug / external by bowden cable
.14S		extern über Bowdenzug, Sonderausführung / external by bowden cable, special version

Externer Türschalter auf Anbauplatte / external door switch on attached mounting plate

kein Türschalter
no door switch
bodenseitig betätigt / actuated from the base side
deckelseitig betätigt / actuated from the cover side

Hilfsschalter / auxiliary switch

ohne Angabe	kein Hilfsschalter
without specification	no auxiliary switch
.90/01	1 Kontakt bei entriegelter Tür geschlossen / 1 contact at unlocked door closed
.90/10	1 Kontakt bei entriegelter Tür offen / 1 contact at unlocked door open

Überwachung der Endposition / monitoring of the end position

0	0
ohne Angabe without specification	keine Überwachung no monitoring
.P	Sensor zur Überwachung der Endposition / sensor for monitoring of the end position
Optionen und Sonderau	sführungen / options and special versions
30°	vergrößertes Lagerspiel und Schmierstoffe für -30 °C enlarged bearing clearance and lubricants for temperatures up to -30 °C
-CHR	Riegelbolzen verchromt (Standard bei IP54) / latch bolt chrome-plated (standard at IP54)
-V2A	Riegelbolzen aus Edelstahl / latch bolt made of stainless steel



Technische Änderungen vorbehalten subject to technical alterations

Hans & Jos. Kronenberg GmbH

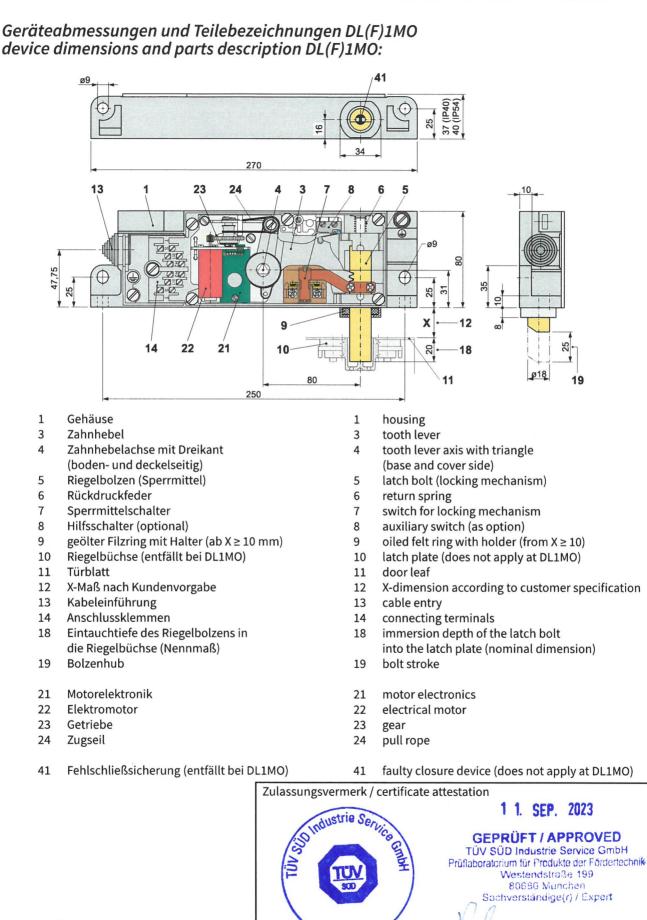
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Türverriegelungen / Door Interlocks EU-DL 807/2: DL1MO, DL2MO EU-DL 808/2: DLF1MO, DLF2MO

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Technische Änderungen vorbehalten subject to technical alterations

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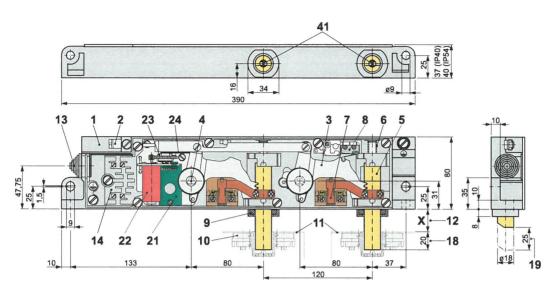
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Türverriegelungen / Door Interlocks EU-DL 807/2: DL1MO, DL2MO EU-DL 808/2: DLF1MO, DLF2MO

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Geräteabmessungen und Teilebezeichnungen DL(F)2MO device dimensions and parts description DL(F)2MO:



- 1 Gehäuse
- 2 Zugstange
- 3 Zahnhebel
- 4 Zahnhebelachse mit Dreikant (boden- und deckelseitig)
- 5 Riegelbolzen (Sperrmittel)
- 6 Rückdruckfeder
- 7 Sperrmittelschalter
- 8 Hilfsschalter (optional)
- 9 geölter Filzring mit Halter (ab X ≥ 10 mm)
- 10 Riegelbüchse (entfällt bei DL2)
- 11 Türblatt / Türkante
- 12 X-Maß nach Kundenvorgabe
- 13 Kabeleinführung
- 14 Anschlussklemmen
- 18 Eintauchtiefe des Riegelbolzens in die Riegelbüchse (Nennmaß)
- 19 Bolzenhub
- 21 Motorelektronik
- 22 Elektromotor
- 23 Getriebe
- 24 Zugseil
- 41 Fehlschließsicherung (entfällt bei DL2)

- 1 housing
- 2 pull rod
- 3 tooth lever
- 4 tooth lever axis with triangle (base or cover side)
- 5 latch bolt (locking mechanism)
- 6 return spring
- 7 switch for locking mechanism
- 8 auxiliary switch (as option)
- 9 oiled felt ring with holder (from $X \ge 10$ mm)
- 10 latch plate (does not apply at DL2)
- 11 door leaf / door edge
- 12 X-dimension according to customer specification
- 13 cable entry
- 14 connecting terminals
- 18 immersion depth of the latch bolt into the latch plate (nominal dimension)
- 19 bolt stroke
- 21 motor electronics
- 22 electrical motor
- 23 gear
- 24 pull rope
- 41 faulty closure device (does not apply at DL2)

Zulassungsvermerk / certificate attestation 1 1. SEP. 2023 GEPRÜFT / APPROVED TÜV SÜD Industrie Service GmbH Prüflaboratorium für Produkte der Fördertechnik Westendstraße 199 80696 München Sochworständige(r) / Expert

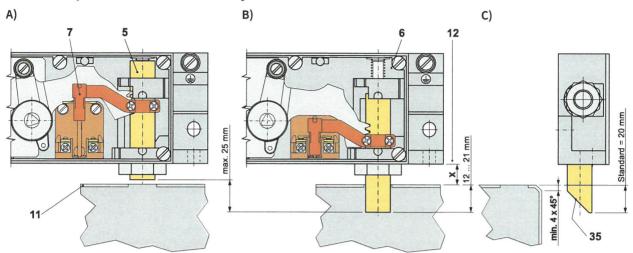
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Erstellt am / created on: 19.07.2023 / H. Klaus

Türverriegelungen / Door Interlocks EU-DL 807/2: DL1MO, DL2MO EU-DL 808/2: DLF1MO, DLF2MO

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Arbeitsweise ohne Fehlschließsicherung method of operation without faulty closure device:



A) Öffnungsstellung / open position:

Beim Anlegen der Betriebsspannung an die Anschlussklemmen der Elektronik [21] wird der Riegelbolzen [5] von dem Motor [22] bzw. Elektromagnet [25] über weitere mechanische Komponenten [23, 24, 3] bzw. [26, 2, 3] angezogen. Der Sperrmittelschalter [7] wird dabei zwangsgeführt geöffnet, die Druckfeder [6] wird gespannt. In der Endlage wird die Bewegung automatisch gestoppt. Solange die Betriebsspannung anliegt, wird der Riegelbolzen [5] in dieser Position gehalten.

When applying the supply voltage to the connecting terminals of the motor electronics [21] the latch bolt [5] is attracted by the motor [22] resp. electro magnet [25] via further mechanical components [23, 24, 3] resp. [26, 2, 3]. The switch for locking means [7] is thereby positively driven open, the return spring [6] is tightened. In the end position the motor is stopped automatically. As long as the supply voltage applies, the latch bolt [5] remains in this position.

B) Schließstellung / close position:

Nach Abschalten der Betriebsspannung wird der Riegelbolzen [5] von der Druckfeder [6] in die Bohrung des Türblattes [11] bewegt. Der Sperrmittelschalter [7] wird geschlossen. Die Eintauchtiefe des Riegelbolzens [5] in die Bohrung des Türblattes [11] muss mindestens 8 mm betragen.

After switching off the supply voltage the latch bolt [5] is moved into the borehole of the door leaf [11] by the return spring [6]. The contact for locking means [7] is closed. The immersion depth of the latch bolt [5] into the borehole of the door leaf [11] must be at least 8 mm.

C) Zuschlagbarkeit / closing ability:

Die Standard Eintauchtiefe beträgt 20mm. Zur Gewährleistung der Zuschlagbarkeit bei 20mm Eintauchtiefe und der Standardanschrägung 45° x 16mm [35] muss die Türkante [11] eine Schräge von min. 4mm aufweisen. Alternativ kann die Eintauchtiefe durch die Verwendung einer Türverriegelung mit reduziertem X-Maß [12] verringert werden, um so die Zuschlagbarkeit sicherzustellen.

The standard immersion depth is 20 mm. To ensure the closing ability at 20 mm immersion depth and the standard bevel 45° x 16 mm [35] the door edge [11] must have a minimum bevel of 4 mm. Alternatively the immersion depth can be minimised by using a door interlock with reduced X-dimension [12] to thus ensure the closing ability.



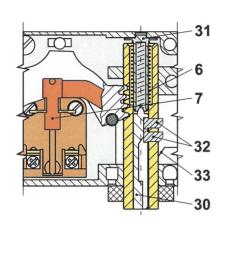
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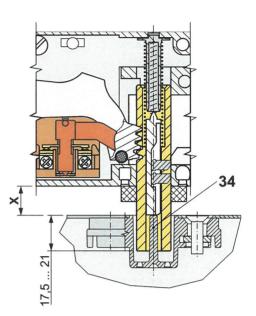
B)

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Arbeitsweise mit Fehlschließsicherung method of operation with faulty closure device:







A) Öffnungsstellung / open position:

Beim Anlegen der Betriebsspannung an die Anschlussklemmen der Elektronik [21] wird der Riegelbolzen [5] von dem Motor [22] bzw. Elektromagnet [25] über weitere mechanische Komponenten [23, 24, 3] bzw. [26, 2, 3] angezogen. Der Sperrmittelschalter [7] wird dabei zwangsgeführt geöffnet, die Druckfeder [6] wird gespannt. Der Sperrschieber [30] bewegt die beiden Sperrstifte [32] durch die Federführung [31] zwangsweise in die Position der Sperrbereitschaft. In der Endlage wird die Bewegung automatisch gestoppt. Solange die Betriebsspannung anliegt, wird der Riegelbolzen [5] in dieser Position gehalten.

When applying the supply voltage to the connecting terminals of the motor electronics [21] the latch bolt [5] is attracted by the motor [22] resp. electro magnet [25] via further mechanical components [23, 24, 3] resp. [26, 2, 3]. The switch for locking means [7] is thereby positively driven open, the return spring [6] is tightened. The stop valve [30] moves the two locking pins [32] through the spring guide [31] positively into the position of locking readiness. In the end position the movement is stopped automatically. As long as the supply voltage applies, the latch bolt [5] remains in this position.

B) Schließstellung / close position:

Nach Abschalten der Betriebsspannung wird der Riegelbolzen [5] von der Druckfeder [6] in die Riegelbüchse 10] bewegt. Der Sperrschieber [30] wird durch den Fehlschließstift [34] der Riegelbüchse [10] angehalten. Die beiden Sperrstifte [32] können durch eine Anschrägung [33] im Gehäuse [1] in den Riegelbolzen [5] eintauchen. Der Sperrmittelschalter [7] wird geschlossen. Die Eintauchtiefe des Riegelbolzens [5] in die Riegelbüchse [10] muss mindestens 17,5 mm betragen.

After switching off the supply voltage the latch bolt [5] is moved into the latch plate [10] by the return spring [6]. The stop valve [30] is stopped by the faulty closure pin [34] of the latch plate [10]. The two locking pins [32] can plunge into the latch bolt [5] through a bevel [33] in the housing [1]. The contact for locking means [7] is closed. The immersion depth oft the latch bolt [5] into the latch plate [10] muss must be at least 17.5 mm.



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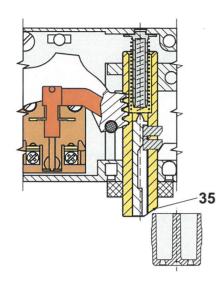
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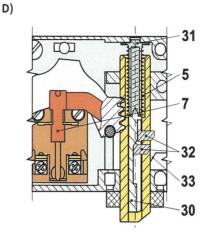
Türverriegelungen / Door Interlocks EU-DL 807/2: DL1MO, DL2MO EU-DL 808/2: DLF1MO, DLF2MO

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Arbeitsweise mit Fehlschließsicherung method of operation with faulty closure device:

C)





C) Fehlschließstellung / faulty closure position:

Wird die Betriebsspannung abgeschaltet, obwohl die Schachttür [11] nicht geschlossen ist (gestörter Betriebsfall), wird die Bewegung des Riegelbolzens [5] durch das Zusammenwirken von Sperrschieber [30], Sperrstiften [32] und Anschrägung [33] im Gehäuse [1] begrenzt. Der Sperrmittelschalter [7] bleibt geöffnet. Durch die Anschrägung [35] des Riegelbolzens [5] kann die Schachttür normal geschlossen werden. Der Riegelbolzen [5] der Türverriegelung wird dann die geschlossene Position einnehmen.

If the supply voltage is switched off, although the landing door [11] is not closed (faulty operation), the movement of the latch bolt [5] will be limited by the interaction of the stop valve [30], locking pins [32] and bevel [33] in the housing [1]. The contact for locking means [7] remains opened. Due to the bevel [35] of the latch bolt [5] the landing door can be closed normally. The latch bolt [5] of the door interlock will then be in close position.

D) Zwangsläufige Sperrbereitschaft / positive locking readiness:

Durch das Zusammenwirken der Federführung [31], des Sperrschiebers [30] und der Öffnungsbewegung des Riegelbolzens [5] werden die beiden Sperrstifte [32] zwangsläufig aus dem Riegelbolzen heraus bewegt. Sie befinden sich dort in der Position der Sperrbereitschaft.

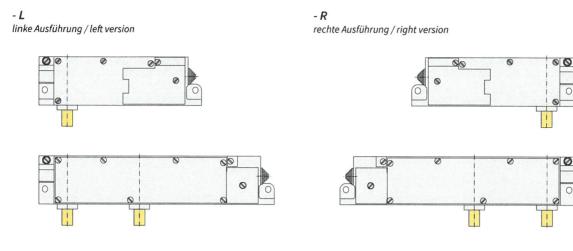
By the interplay of the spring guide [31], the stop valve [30] and the opening movement of the latch bolt [5] the two locking pins [32] are positively moved out of the latch bolt. They are in the position of the locking readiness.



Türverriegelungen / Door Interlocks EU-DL 807/2: DL1MO, DL2MO EU-DL 808/2: DLF1MO, DLF2MO

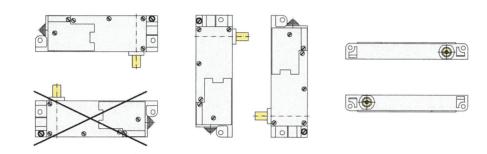
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Ausführungen / operating direction:

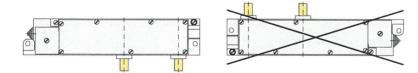


Gebrauchslagen / customary positions:

DL(F)1MO



DL(F)2MO





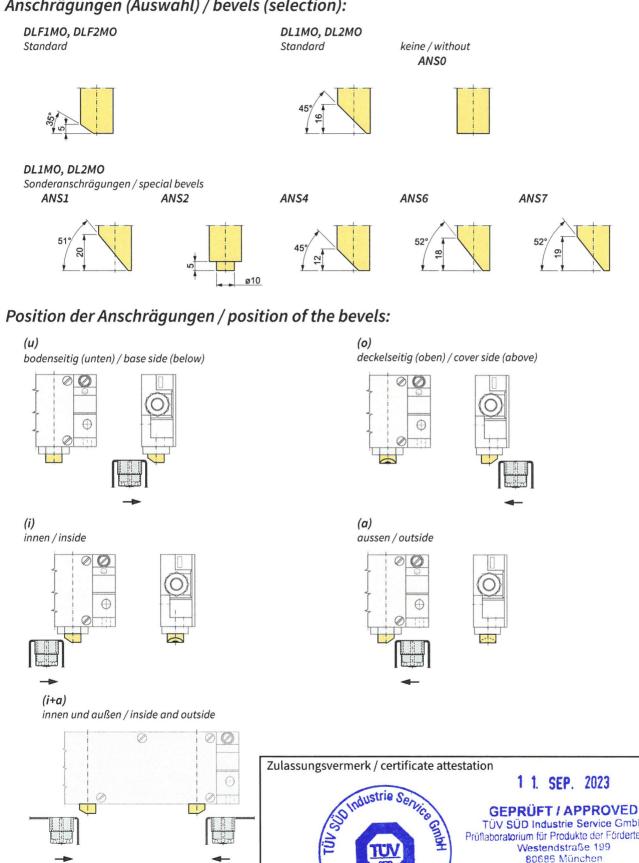
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Anschrägungen (Auswahl) / bevels (selection):



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Türverriegelungen / Door Interlocks EU-DL 807/2: DL1MO, DL2MO EU-DL 808/2: DLF1MO, DLF2MO

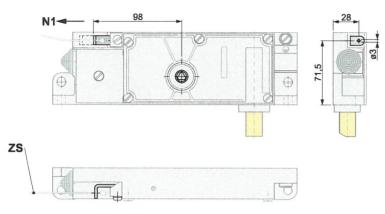
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Notentriegelung / emergency release: .1 DL(F)1MO **B1** D1 0 0 . o 0 \oplus € 31 80 DL(F)2MO B1 bodenseitig (stets vorhanden) base side (always existing) D1 deckelseitig zusätzlich cover side additionally N1 Entriegelungsrichtung Notentriegelung unlocking direction emergency release Zulassungsvermerk / certificate attestation 1 1. SEP. 2023 Industrie Service **GEPRÜFT / APPROVED** TÜV SÜD Industrie Service GmbH Prüflaboratorium für Produkte der Fördertechnik Gmbh Westendstraße 199 80686 München Sachverständige(r) / Expert Technische Änderungen vorbehalten subject to technical alterations

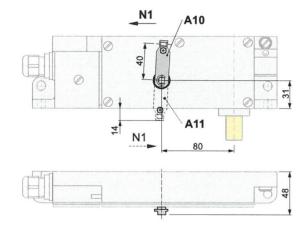
Notentriegelung / emergency release:

.5

bei Schutzart IP40 / at level of protection IP40



.5 bei Schutzart IP54 / at level of protection IP54



- A10 Hebel/lever
- A11 zum Ändern der Entriegelungsrichtung Hebel umbauen, Abmessungen beachten convert the lever to change the unlocking direction, please note the dimensions
- **N1** Entriegelungsrichtung Notentriegelung unlocking direction emergency release
- **ZS** Zugseil ZS-... (Zubehör) pull rope ZS-... (accessories)

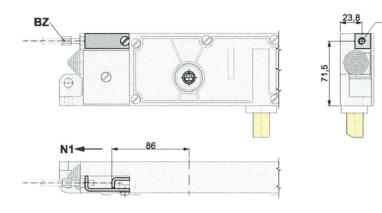


M6

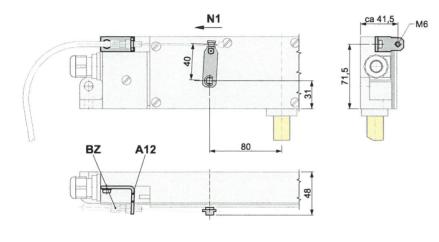
Notentriegelung / emergency release:

.14

bei Schutzart IP40 / at level of protection IP40



.14 bei Schutzart IP54 / at level of protection IP54



- A12 Aufnahmewinkel für Bowdenzug support angle for bowden cable
- BZ Bowdenzug BZ-... (Zubehör) bowden cable BZ-... (accessories)

N1 Entriegelungsrichtung Notentriegelung unlocking direction emergency release

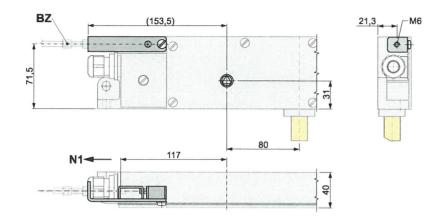


Technische Änderungen vorbehalten subject to technical alterations

Notentriegelung / emergency release:

.14S

bei Schutzart IP54 / at level of protection IP54





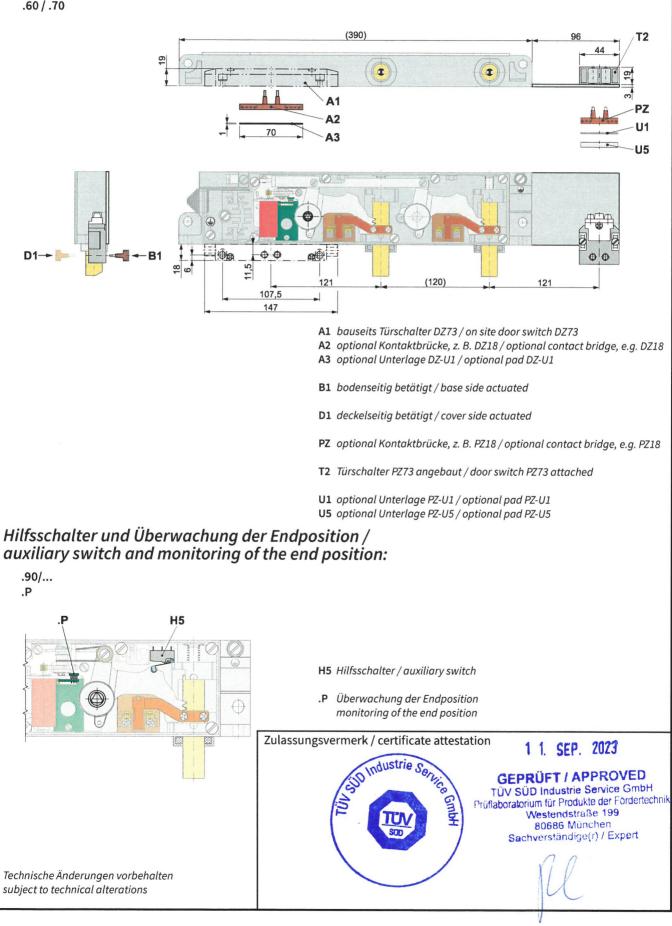
Erstellt am / created on: 19.07.2023 / H. Klaus

Türverriegelungen / Door Interlocks EU-DL 807/2: DL1MO, DL2MO EU-DL 808/2: DLF1MO, DLF2MO

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Externer Türschalter / external door switch:





perrmittelschalter / switch for locking mecha	nism	
Normen / norms	EN 81-20, EN 81-50, EN 60947-5-1 Ui = 250 V, lth = 10 A, Uimp = 4 kV	
Schaltleistung / switching capacity	AC-15: Ue = 230 V Ie = 2 A DC-13: Ue = 200 V Ie = 2 A	
Kurzschlussfestigkeit / short-circuit capacity	T 10 A, F 16 A	
Kontaktmaterial / contact material	Feinsilber / refined silver	
Hilfsschalter / auxiliary switch90/		
Schaltleistung / switching capacity	AC: Ue = 250 V, Ie = 6 A EN 61058 DC: Ue = 200 V, Ie = 0,25 (0,1) A DC: Ue = 60 V, Ie = 1,0 (0,5) A DC: Ue = 24 V, Ie = 3,0 (2,0) A	
Antrieb des Riegelbolzens / motor drive of the l	atch bolt	
Betriebsspannung / operating voltage	24 V DC (-15% / +25%) geregelt / regulated	
Anzugstrom / pull-in current	1 A	
Haltestrom / holding current	0,2 A	
Allgemein / general		
Anschluss / connection	über Schraubklemme, max. 2,5 mm² by screw terminal, max. 2.5 mm²	
Kabeleinführung / cable entry	Ø = 23 mm mit Gummitülle with rubber grommet	
	M25 mit Reduzierring und Kabelverschraubung M20x1,5 (bei -W, -WV) M25 with reducing ring and cable gland M20x1.5 (at -W, -WV)	
Schutzart / level of protection	IP40 IP20 (externer Türschalter .60, .70 / external door switch .60, .70) IP54 (optional / optional)	
Umgebungstemperatur /	-10 °C bis 45 °C (bei -W, -WV) / -10 °C up to 45 °C (at -W, -WV)	
ambient air temperature	-30 °C bis 45 °C (bei30°) / -30 °C up to 45 °C (at30°)	
Gewicht / weight	1000 - 1700 g (je nach Ausführung / according to version)	



Technische Änderungen vorbehalten subject to technical alterations