TÜV THÜRINGEN

Certificate P-4029/10 (English Issue)

(valid only in association with the terms overleaf)

Approval owner: GEZE GmbH
Reinhold-Vöster-Straße 21-29, 71229 Leonberg

Production plants: GEZE GmbH
Reinhold-Vöster-Straße 21-29, 71229 Leonberg

Type Approval Mark:

Validity period until:
31/12/2021

Product: Automatic sliding door for use in escape and rescue routes

Model: **ECdrive-FR**

Testing based on the following:

- Directive on automatic sliding doors in rescue routes (AutSchR): 1997-12
- DIN 18650-1/2:2010-06
  Powered pedestrian doors
- DIN EN 16005:2013-01
  Power operated pedestrian doorsets – Safety in use
- DIN EN 60335-1:2012-10
  Household and similar electrical appliances – Safety
- DIN EN 60335-2-103:2016-05
  Household and similar electrical appliances - Safety
  Part 2-103: Special requirements for drives for gates, doors and windows
- DIN EN ISO 13849-1/2:2016-06 and 2013-02
  Safety of machinery - Safety-related parts of control systems

as well as applicable standards, regulations and directives listed in the aforementioned test specifications.

Result of testing:

The requirements listed in the test principles are fulfilled by the product.

The approval for use of the test mark shown above is thus given, in accordance with the conditions printed on the reverse. This certificate replaces certificate P-4029/10 dated 19/04/2013.

Zella-Mehlis/Germany, 14/12/2017

Technischer Überwachungsverein Thüringen e.V.
Test Centre for Construction Products

Dipl.-Ing. (FH) Reichelt
Head of the Test Centre

TÜV Thuringia e.V. (Association for Technical Inspection)
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Type Approval Certificate (English Issue)
P-4029/10

Applicant: GEZE GmbH
Reinhold-Vöster-Straße 21-29
71229 Leonberg

Production plant: GEZE GmbH
Reinhold-Vöster-Straße 21-29
71229 Leonberg

Type Approval Mark:

Type: **ECdrive-FR**

Permissible version:

- 1-leaf automatic sliding door, choice of right or left hand slide to open, for use in rescue routes
- 2-leaf automatic sliding door centrally closing for use in rescue routes

  in the dimensions according to installation diagram; glass types: ISO / ESG (toughened safety glass) / LSG (laminated safety glass)

Leaf weights:	Opening width:
max. 1 x 120 kg	max. 3000 mm
max. 2 x 120 kg	max. 3000 mm

  Type of construction:
  - ESG-moving leaf
  - LSG-moving leaf
  - ISO-moving leaf
  - IGG sliding leaf
  - Aluminium doors/Framed moving-leaf doors
  - Post-rail constructions
  - Metal doors
  - wooden doors

  - GGS moving leaf within the following limits:

Leaf weights:	Opening width:
max. 1 x 120 kg	max. 2000 mm
max. 2 x 120 kg	max. 3000 mm

  - Framed moving leaf of the type Schüco AWS / Wicona Wicstyle 65 evo within the following limits:

Leaf weights:	Opening width:
max. 1 x 120 kg	max. 2000 mm
max. 2 x 120 kg	max. 3000 mm

Permissible options:

- Locking device in the drive
- Floor locks
- Mechanical leaf lock Lock M
- Automatic leaf lock Lock A
- Girder section with support panels/side panels

- Signal transmitters and presence detectors in accordance with the sensor list attached as Annex I in the currently valid version
- Inner and outer activation device for unlocking
- Use of a motor brake in the exit only mode of operation (FR-LL)
- Use of a second switchable movement detector in the direction of escape (FR-DUO)
- Connection for external danger alarm system (GMA) / fire alarm system (BMA) via potential-free contact at the control unit terminal panel
- Potential-free contact for locking monitoring and signalling the state to an alarm system or building management system
- Reduced opening width (at least as wide as the rescue route)

Testing based

1. Directive on automatic sliding doors in rescue routes (AutSchR): 1997-12
2. DIN 18650-1/2:2010-06
   Powered pedestrian doors
3. DIN EN 16005:2013-01
   Power operated pedestrian doorsets - Safety in use
4. DIN EN 60335-1:2012-10
   Household and similar electrical appliances- Safety
5. DIN EN 60335-2-103:2016-05
   Household and similar electrical appliances – Safety
   Part 2-103: Special requirements for drives for gates, doors and windows
6. DIN EN ISO 13849-1/2:2016-06 and 2013-02
   Safety of machinery
   Safety-related parts of control systems

as well as the mutually applicable standards, regulations and directives listed in the above test principles.

Conditions:

1. Before the system is erected and commissioned, a risk analysis must be carried out, taking the local conditions into consideration. Depending on the result of the risk analysis, the system must be equipped with the necessary sensors and protective measures.
2. The sensors listed in the sensor list attached as Annex I to the type examination certificate must be used as sensors for activation of the drive and use of the presence sensors. The usage limits set out in the manufacturer's specifications must be observed.
3. Automatic sliding doors of the type "ECdrive-FR" are only suitable for dry rooms and must be marked accordingly.
4. Installation of automatic sliding doors as well as the switching devices and control devices required for function may only be carried out by a specialist company.
5. Door leaf dimensions, door leaf weights and door leaf frames or materials must comply with the parameters of the respectively applicable and checked drawings.
6. Door leaves and side panels/support panels made of transparent materials must be marked at head height in such a way that they can be seen easily.
7. Every automatic sliding door must be equipped with an all-pole main switch that is secured against inadvertent or unauthorised restarting.
   Alternatively, the switch integrated in the drive is permitted as a main switch.

8. For every automatic sliding door, the technical documents listed below or other supplementary technical documents must be handed over to the client or operating company:

   Installation instructions with necessary technical documentation
   - User manual with:
     - Functional description of the system
     - Measures for putting into operation
     - Notes about faults and repair work
     - Test specifications and their deadlines
   - Test log with specifications for maintenance work and relevant deadlines
   - A copy of this certificate, test mark P-4029/10.

9. Before automatic sliding doors of the type "ECdrive-FR" are put into operation, they must be tested by an expert and written proof of the test result must be provided.

   The provisions of the regional building code valid at the installation location apply for recurring tests. The specifications provided by the manufacturer regarding maintenance intervals must be heeded.

Notice:

1. This certificate authorises the manufacturer to mark products of the type "ECdrive-FR" with the Ü-Mark, including specification of type, model year and serial number.
2. Automatic sliding doors for use in rescue routes may be locked providing there are no escape and rescue route requirements made on this sliding door during this defined time period. This is usually the case when people are no longer in the building or if a different escape route is signposted for these people.
3. There is no need to equip automatic sliding doors in rescue routes with an emergency control unit (emergency switch).
4. Optionally, it is permitted to connect a building-specific danger alarm systems (GMA) or fire alarm systems (BMA) to the control unit via an external connection with potential-free contact
5. The door system has been tested to durability class 3 (1,000,000 cycles) and ambient temperature class 2 (-15°C to +50°C) in accordance with DIN 18650-1.
6. The type does not fulfil any requirements made for reasons of fire protection (fire resistance, smoke-proofness).
7. The type Approval certificate is valid until 31/12/2021. It may be necessary to repeat the test if major changes are made to the technical regulations.
8. This certificate replaces certificate P-4029/10 dated 19/04/2013.

Zella-Mehlis/Germany, 14/12/2017

Technischer Überwachungsverein Thüringen e.V.
Test Centre for Construction Products

Dipl.-Ing. (FH) Reichelt
Head of the Test Centre

TÜV Thüringen e.V. Bauaufsichtlich anerkannte Prüfstelle THU 08