TSA 360 NT Break-Out
for use on escape and rescue routes
Planning document
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Fields of application and product features

**Fields of application**
Designed for the use on escape and rescue routes the sliding door system GEZE TSA 360 NT-BO is installed wherever safety is the first priority.

- Office buildings
- Public buildings
- Chemist premises
- Banks
- Hotels and restaurants
- Administration buildings
- Hospitals
- Homes for the elderly and homes for disabled people
- Airports and stations
- Automobile salesrooms
- Industrial facilities
- Draught-proof systems

**Product features**
GEZE TSA 360 NT-BO is a type-tested sliding door system with swing-out fittings.
It is admitted for use on escape and rescue routes.

**GEZE TSA 360 NT-BO (Break-Out)**

- Emergency opening in escape direction towards opposite side of drive, drive mounted at the inside
- Leaves swing out in escape direction, force adjustable up to 220 N
- Single-leaf and double-leaf design with swing-out side elements

The sliding door system TSA 360 NT-BO:

- allows for max. passage heights
- due to its modular construction the systems is easy to install and allows different mounting variants
- suitable for new buildings as well as retrofitted buildings

Fig. 03-1 · GEZE TSA 360 NT-BO (Break-Out)
System description

The TSA 360 NT-BO from GEZE is a type-tested sliding door system with swing-out fittings

- admitted for the use on escape and rescue routes
- suitable for internal and external doors
- transom mounting or free support
- system of all-aluminium construction
- system with swing-out side panels
  - double-leaf
  - single-leaf
  - left hand or right hand closing

Types of door leaves

- All-glass doors of toughened safety glass (ESG) or insulating safety glass (ISO) finely framed

Drive

- low-wear high capacity DC motor
- extremely quiet-running, enclosed running gear
- power transmission via toothed belts, deflection pulleys in precision bearings
- leaf weight distributed to track profile via 2 x 4 rollers
- drive mounted inside
Technical data

<table>
<thead>
<tr>
<th></th>
<th>Single-leaf</th>
<th>Double-leaf</th>
</tr>
</thead>
<tbody>
<tr>
<td>Door leaf weight</td>
<td>up to 100 kg</td>
<td>up to 2 x 100 kg</td>
</tr>
<tr>
<td>Opening width</td>
<td>900 - 1400 mm</td>
<td>1000 - 2500 mm</td>
</tr>
<tr>
<td>Passage height</td>
<td>max. 3000 mm</td>
<td></td>
</tr>
<tr>
<td>Opening speed</td>
<td>up to 0,7 m/s</td>
<td></td>
</tr>
<tr>
<td>Closing speed</td>
<td>up to 0,5 m/s</td>
<td></td>
</tr>
<tr>
<td>Mains connection</td>
<td>230 V AC +6% - 10% at 50 Hz or 60 Hz</td>
<td></td>
</tr>
<tr>
<td>Power consumption</td>
<td>max. 150 VA</td>
<td></td>
</tr>
<tr>
<td>CE-compliance</td>
<td>yes</td>
<td></td>
</tr>
</tbody>
</table>

Control

- Fully digital actuation via 16 Bit high capacity micro-controller
- All parameter settings of the system as well as indication of functions, maintenance parameters and errors via programme switch
- Operating modes:
  - automatic operation
  - permanently open
  - shop closing time (one-way)
  - night
- Reduced opening width infinitely adjustable during learning mode
- Indication of statistic data and error detection via programme switch (number of opening movements, service interval announcement)
- Self-learning door control
- Automatic adaption of opening time time to number of persons entering or leaving the building (activatable)
- Connection to fire alarm system
- Electromechanical locking mechanism with optional status contact for alarm systems
- Opening and closing speed individually adjustable
- Exclusion of the danger spots by most modern sensor technology

Actuation elements

In escape direction use of type-tested movement detectors only, but otherwise all well known control elements are admitted, f.ex.

- Radar movement detectors with direction-sensing
- Combination of detectors: Radar movement detectors with direction-sensing and self-controlled double 3D light curtain for optimal recording of a person in the complete opening area
- Push-buttons and switches
- Key-operated switches
- Code card reader

Options (examples)

- Emergency unlocking mechanism: automatic opening, independent of the current programme position
- Link to fire alarm system
- Electromagnetic locking to secure the door leaves against pushing or pulling open

Safety functions

- The door is opened automatically by power pack in the case of failure or power outage (not in position “night”)
- Sliding leaves swing-out in escape direction
- Swing-out side elements
- Closing force limitation < 150 N
- Swing-out force adjustable to max. 220 N
- Protection by light barriers according to BGR 232 with self-control (two-channel light barrier)
- Automatic reversing function if an obstacle is encountered during closing movement of the door
- Drive is switched off during swing-out function of the sliding leaves or side elements
- Emergency unlocking function (optional)
Installation examples

- **GEZE TSA 360 NT-BO**
  - double-leaf with swing-out side panels
    - Standard operation, closed
    - Standard operation, open
      (the required safety margin of 200 mm each is included in the dimension)
    - Escape situation
      Door leaf swung out in position Break-Out

- **GEZE TSA 360 NT-BO**
  - single-leaf with swing-out side panels
    - Standard operation, closed
    - Standard operation, open
      (the required safety margin of 200 mm each is included in the dimension)
    - Escape situation
      with max. inner width
      (sliding leaves can be pushed in escape direction independent of the current door position)

---

**Explanations**

<table>
<thead>
<tr>
<th>Abbreviation</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ÖW</td>
<td>Opening width</td>
</tr>
<tr>
<td>B</td>
<td>Structure dimensions of system (max. overall length)</td>
</tr>
<tr>
<td>L</td>
<td>Length of continuous floor guide rail</td>
</tr>
</tbody>
</table>

---

![Fig. 06-1 · Mounting examples TSA 360 NT-BO double-leaf](image)

![Fig. 06-2 · Mounting examples TSA 360 NT-BO single-leaf](image)
Draught-proof systems

Draught-proof systems are used to avoid draught and to reduce the heat exchange. Only one door should be open.

Direction-recognizing radar movement detectors only trigger the door if persons move towards the door. Therefore the door closes earlier as soon as the person has entered.

The sliding door is mounted in such a way that the leaves can be swung out in escape direction. For that reason, also draught-proof systems with two traffic directions can be fully used in escape direction.

### Explanations

<table>
<thead>
<tr>
<th>Explaination</th>
<th>with direction recognition</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>without direction recognition</td>
</tr>
<tr>
<td></td>
<td>common traffic direction</td>
</tr>
<tr>
<td></td>
<td>Escape situation, escape direction (sliding leaf and side element opened in escape position)</td>
</tr>
</tbody>
</table>

Fig. 07-1 · Draught-proof system with two traffic directions

Fig. 07-2 · Draught-proof system, common traffic direction
Horizontal section – fitted between walls

GEZE TSA 360 NT-BO
with swing-out side panels,
fitting between walls

Fig. 08-1 · Horizontal section TSA 360 NT-BO fitted between walls
Vertical section – wall fastening

GEZE TSA 360 NT-BO
with swing-out side panels, wall fastening

Explanations
1 Guide rail within the area of the side panels
2 Continuous floor guide rail

Fig. 09-1 · Vertical section TSA 360 NT-BO, wall fastening
Vertical section – with cantilever beam

▶ GEZE TSA 360 NT-BO
with swing-out side panels,
with cantilever beam

<table>
<thead>
<tr>
<th>Explanation</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 Outer guide rail in the area of the side panels</td>
</tr>
<tr>
<td>2 Continuous floor guide rail</td>
</tr>
</tbody>
</table>

Fig. 10-1 · Vertical section TSA 360 NT-BO, with cantilever beam
Cantilevered fastening

The sliding door system TSA 360 NT-BO can also be mounted to façades such as post-rail constructions or as cantilevered version.

- Cantilever beam
  - for opening width up to 2000 mm

Fig. 11-1 · Cantilever beam
Calculation of overall length / glass dimensions

**Calculation of overall length**

of total system
with swing-out side panels
(including safety gap 200 mm)

- **Single-leaf**
  \[ B = 2 \times ÖW + 280 \text{ mm} \]

- **Double-leaf**
  \[ B = 2 \times ÖW + 560 \text{ mm} \]

**Calculation of glass dimensions**

Frame profile with insulating glass fittings

**Sliding leaf**

- **Single-leaf**
  - glass width = ÖW
  - glass height = DH - 132 mm

- **Double-leaf**
  - glass width = ÖW / 2
  - glass height = DH - 132 mm

**Side panels**

- **Single-leaf**
  - glass width = ÖW + 189 mm
  - glass height = DH - 95 mm

- **Double-leaf**
  - glass width = ÖW / 2 + 196 mm
  - glass height = DH - 95 mm

<table>
<thead>
<tr>
<th>Explanations</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ÖW</td>
<td>Opening width</td>
</tr>
<tr>
<td>B</td>
<td>Length of total system (mm)</td>
</tr>
<tr>
<td>DH</td>
<td>Passage height</td>
</tr>
</tbody>
</table>

Fig. 12-1 - Calculation of overall length of total system

Fig. 12-2 - Calculation of glass dimensions, frame profile with ISO glass fittings
Display programme switch

The GEZE display programme switch with membrane keyboard is available as surface-mounted (AP) version and as flush-mounted (UP) *) version.

**Technical data**

- Display: 7 segment display, 2 digits
- Temperature range: -20°C up to +50°C
- Enclosure rating IP 40

**Functions of programme switch**

<table>
<thead>
<tr>
<th>Function</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Permanently open</strong></td>
<td>The door opens to position OPEN and remains open</td>
</tr>
<tr>
<td><strong>Night</strong></td>
<td>The movement detectors are inactive, the door closes and is secured by locking of the door leaves to prevent the door from being pushed open by force</td>
</tr>
<tr>
<td><strong>Shop closing time</strong></td>
<td>The door opens and closes only, if someone stepping out of the door from. The exterior movement detector is not active, the interior movement detector is active</td>
</tr>
<tr>
<td><strong>Automatic operation</strong></td>
<td>The door opens as soon as the door is triggered via movement detectors or push buttons and closes again in accordance with a pre-set time. Light barriers provide safety during the operation of the leaves.</td>
</tr>
<tr>
<td><strong>Reduced opening width</strong></td>
<td>If the door is in position “Permanently open”, “Automatic operation” and “Shop closing time” it opens only a part of its max. opening width. As a result, heat exchange can be reduced. The reduced opening width can be infinitely varied by manually positioning the door while the system is in learning mode.</td>
</tr>
</tbody>
</table>

**Key-operated switch for display programme switch**

If automatic sliding door systems are used on escape and rescue routes an additional key-operated switch is mandatory (in Germany). The key-operated switch makes sure that the automatic door drive can be actuated by authorised persons only.

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*) for flush-mounted (UP) version a standard box with ø 60 mm and screws is required, the standard box is not included in the package supplied by GEZE
Activation

Basic types of activation

Note (in Germany): To decide which type of control element will be used please check that the item is part of the test certificate for type-tested systems!

- Radar movement detectors detect all objects moving within the radar field. All movements within the detection area cause a reflection which is transferred as door opening impulse.

- Active infrared movement detectors detect persons and objects in accordance with the reflection principle of short-wave infrared radiation. This allows to exactly adjust the detection area. In addition to persons and animals, supermarket trollies or hospital beds, too, trigger the door-opening impulse.

- Passive infrared movement detectors react to heat radiation, connected with movement and are therefore suited to detect persons. Supermarket trollies, e.g., cannot be detected due to the missing heat radiation.

- Push button, key-operated switch, etc.

- Remote controls

Locking of door, leaving / entering the building

How to pass the locked door?
The programme switch is set to night-setting. The door is closed and mechanically locked.

- Leaving the room:
  - operate the manual unlocking button
  - the door opens
  - and closes and locks automatically after you have left the room

- Entering the room:
  - the door can be opened by a key-operated switch or any other electronic switch
  - the door is unlocked and opens
  - after you have entered the room, the door closes and locks again

Now you can select the desired operation mode at the programme switch.

Type tested sensors and control elements

The following items are part of the test certificate for type-tested systems and therefore permitted:

<table>
<thead>
<tr>
<th>Actuation of the door</th>
<th>Protecting danger spots / presence sensors</th>
</tr>
</thead>
<tbody>
<tr>
<td>Actuation from outside (KA)</td>
<td>Protecting within closing (SIS)</td>
</tr>
<tr>
<td>Radar movement detector</td>
<td>Infrared light barrier</td>
</tr>
<tr>
<td>Merkur N</td>
<td>GZ 470</td>
</tr>
<tr>
<td>Merkur R</td>
<td>GZ 472</td>
</tr>
<tr>
<td>Activ R</td>
<td>GZ 470 V</td>
</tr>
<tr>
<td>Jupiter R</td>
<td>GZ 472 V</td>
</tr>
<tr>
<td>Passive infrared movement detector</td>
<td>Infrared sensor</td>
</tr>
<tr>
<td>PIR 20</td>
<td>AIR 30</td>
</tr>
<tr>
<td>PIR 30</td>
<td></td>
</tr>
<tr>
<td>Infrared sensor</td>
<td></td>
</tr>
<tr>
<td>AIR 30</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td>Ultrasonic presence sensor</td>
<td></td>
</tr>
<tr>
<td>HZC GEZE</td>
<td></td>
</tr>
</tbody>
</table>
Hinweise zur Baumusterprüfung

Automatische Schiebetüren für den Einsatz in Flucht- und Rettungswegen unterliegen besonderen Prüfvorschriften. Die Baumusterprüfbescheinigung liegt vor für:

- **GEZE TSA 360 NT-BO zweiflügelig**
  - mit drehbaren Fahrflügeln und drehbaren Seitenteilen für Öffnungsweite 1000 - 2500 mm für Flügelgewicht max. 2 x 100 kg

- **GEZE TSA 360 NT-BO einflügelig**
  - mit drehbaren Seitenteilen und drehbarem Fahrflügel wählweise rechts oder links schließend für Öffnungsweite 900 - 1400 mm für Flügelgewicht max. 100 kg

Zur Beachtung:
- Vor Errichtung und Inbetriebnahme ist eine Sicherheitsanalyse unter Berücksichtigung der örtlichen Verhältnisse durchzuführen und die Anlage entsprechend mit Sensoren und Schutzmaßnahmen auszustatten.
- Liste zugelassene Sensoren: Seite 14
- Nur für trockene Räume geeignet
- Kennzeichnung (in Augenhöhe) der Fahrflügel und Seitenteile aus transparenten Werkstoffen sowie deren Aufschwenkmöglichkeit
- Der Hauptschalter zur allpoligen Abschaltung vom Versorgungsnetz muss gegen irrtümliches und unbefugtes Einschalten gesichert werden.
- Notbefehleinrichtung / Notschalter ist nicht erforderlich, da die Steuerung die geltende EN erfüllt

Zulässige Optionen:
- Verriegelungseinheit im Antrieb
- Bodenschlösser
- freitragende Ausführung
- Signalgeber und Ansteuersensoren gem. aktuelle Fassung Sensorliste
- Kontaktgeber innen und außen für Entriegelung
Wiring diagram TSA 360 NT-BO with swing-out side panels

Power supply line
230 V / 50 Hz
Fuse 16 A

Feed line
(supplied by customer)

Transformer

Actuation
TSA 360 NT-BO

Draught-proof system
(2nd drive)

Overall length B

Cable entry

Fig. 16-1 · Wiring diagram No. 70484-9-0955

Feed line
(supplied by customer)

Gong
(supplied by customer)

Fig. 16-2 · Cable entry, TSA systems
<table>
<thead>
<tr>
<th>Explanations</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>HS</td>
<td>Main switch</td>
</tr>
<tr>
<td>NOT</td>
<td>230 V Emergency OFF switch</td>
</tr>
<tr>
<td>SL</td>
<td>Fault indicator lamp</td>
</tr>
<tr>
<td>PS</td>
<td>Programme switch</td>
</tr>
<tr>
<td>KB</td>
<td>Actuation device, authorised</td>
</tr>
<tr>
<td>BWI</td>
<td>Movement detector inside</td>
</tr>
<tr>
<td>SSL</td>
<td>Safety sensor “open” left</td>
</tr>
<tr>
<td>DPS</td>
<td>Display programme switch</td>
</tr>
<tr>
<td>SPS</td>
<td>Key-operated switch for DPS</td>
</tr>
<tr>
<td>KI</td>
<td>Actuation device inside</td>
</tr>
<tr>
<td>KA</td>
<td>Actuation device outside</td>
</tr>
<tr>
<td>NÖ</td>
<td>Emergency opening</td>
</tr>
<tr>
<td>APÖ</td>
<td>Reduced secure opening</td>
</tr>
<tr>
<td>NV</td>
<td>Emergency closing</td>
</tr>
<tr>
<td>LV</td>
<td>Light curtain (SIS)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Kabel</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>NYM-J 3 x 1.5 mm²</td>
</tr>
<tr>
<td>2</td>
<td>I-Y (ST)Y 1 x 2 x 0.6</td>
</tr>
<tr>
<td>3</td>
<td>I-Y (ST) 3 x 2 x 0.6</td>
</tr>
<tr>
<td>Y</td>
<td>Supplied by GEZE</td>
</tr>
</tbody>
</table>

**Note**

Wiring in accordance with VDE 0100

1.) Cable entry through the left side panel or at the left side from behind, concealed (see drawing).
   For the protection of cables avoid sharp edges and use edge protection.

2.) Cable length max. 100 m, if a key-operated switch for display programme switch is used as flush-mounted version, double standard box required

3.) Signal cables min. 5 m, main cable ends out of the wall

**Important installation regulation for the processing plant:**

Wiring, connection and commissioning by authorised specialists only!

All warranty and service agreements become invalid, if GEZE products are combined with third-party products.

With installation the relevant regulations are to consider, in particular VDE 0833/0815
Your attention is drawn to the "product liability law" defined liability to the manufacturer for the products which are contained in the main catalogue (product information, usage, misuses, product activity, product maintenance, the duty to inform and the duty to instruct. Non-compliance with these conditions releases the manufacturer from any liability.

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