

TSA 160 UFO

Electro-hydraulic under floor drive system



Operating and Maintenance Manual





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Safety Notes



In order to maintain safe and trouble-free operation of TSA160 UFO swing door operators it is essential that the user reads and complies with instructions given on operation, maintenance and safety issues.



There is a risk of injury if the equipment is not installed, commissioned and operated correctly.

Caution!

Risk of injury! Never place fingers or hands between the moving and fixed parts of the door. Entrapment forces are limited in accordance with BS 7036 however, these may be enough to cause injury especially to children. Children should always be supervised accordingly.

For systems installed within the United Kingdom and Ireland, BS 7036: Code of practice for safety at powered doors for pedestrian use gives guidance to manufacturers, suppliers, installers, specifiers, occupiers and property owners on recommendations for the provision, installation, safe operation and maintenance of powered door systems. Its primary purpose is to safeguard against the risk of accidents.

Specifiers and end users must be acquainted with BS 7036 to ensure an understanding of their responsibilities as set out within the standard. Copies can be purchased from the British Standards Institution, London.

BSI Customer Services
British Standards Institution
389 Chiswick High Road
London W4 4AL
United Kingdom

Tel: +44 (0) 20 8996 9001

www.bsi-global.com

Occupier Safety Checks

To ensure continued safe operation, each installation and its environment should be systematically checked by the occupier in accordance with the recommendations of the standard.

BS7036 advises that where appropriate staff should be trained in the use of powered doors to enable them to:

- a) Advise parents of the risks to ensure that children are not exposed to unnecessary risks at powered doors;
- b) Help and advise elderly, infirm and disabled persons;
- c) take appropriate action in an emergency.

General notes and explanation of symbols

- The installed system may not necessarily have all the operating elements described within. Compare the diagram of the operating elements in this document with the operating elements of your own system.
- Please read through the following sections carefully, pay particular attention to symbols and their meaning.

Explanation of symbols

Caution: Risk of injury!

This symbol refers to a risk that could result in injury.



Caution: Risk of Material Damage!

This symbol refers to ways of handling that could cause damage to the door drive system or to the operating elements.



In addition, this symbol identifies important notes!

Warning notes that relate in particular to individual sequences or activities are detailed in the appropriate sections of this document.



Product features

Supply voltage:	Single phase 230V AC 50Hz
Power consumption:	200VA
Output voltage for ancillary equipment:	24V DC (maximum 800mA)
Power failure:	normal door closer function, hydraulically controlled
Hold open time:	0 ... 60 seconds
Dimensions: Drive unit (single)	220mm x 570mm x 125mm (width x length x depth)
Leaf width:	Max. 1400mm (internal doors) 1100mm (external doors)
Leaf height:	Max. 2400mm
Leaf weight:	Max. 120Kg
Door opening angle:	Max. 115°
Closing moment:	9Nm – 37Nm (EN 1 to 5 in accordance with EN1154)
Opening moment:	11.5N – 46N (Subject to seal friction and air pressure)
Temperature range:	-15°C to +60°C

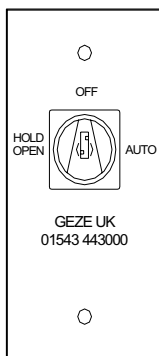


- Manual door closers are rated in EN 1154:1997 according to their power in Nm. The drive has an adjustable closing moment of 9 to 37Nm which is equal to a closer rating of size 1 to 5.
- The performance of all automatic swing doors is adversely influenced by increased wind and internal over / under pressure. The degree of influence will vary with each installation according to site specific conditions.
- Whilst GEZE can provide guidance when requested on the suitability of specified equipment for a particular installation, this guidance is provided without guarantee of anticipated performance in high wind or adverse pressure conditions.

Operational modes

Operation of Settings

Remote Key Operated Programme Switch



The three position switch supplied with the system allows the following functions to be selected by the end user.

AUTO (Automatic Function)

Whilst in this mode the door will be activated automatically by the relevant form of sensor fitted i.e. Radar, Push Pad etc.

HOLD OPEN

Whilst in this function the door will be held permanently open.

OFF

Whilst in this mode the drive unit is off. All activation and safety devices are isolated once the door is fully closed.

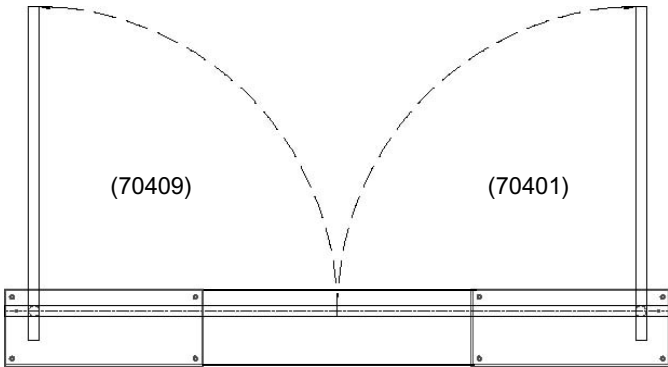
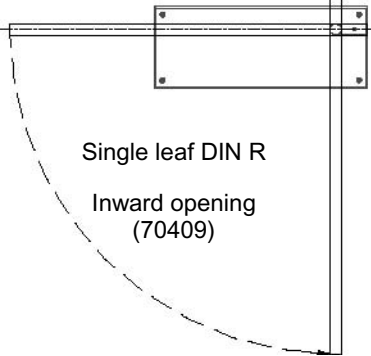
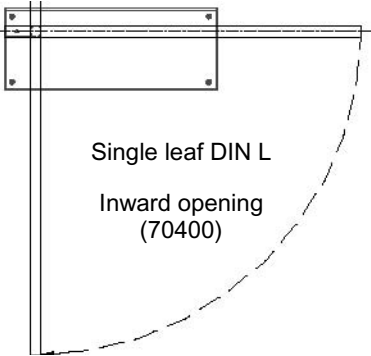
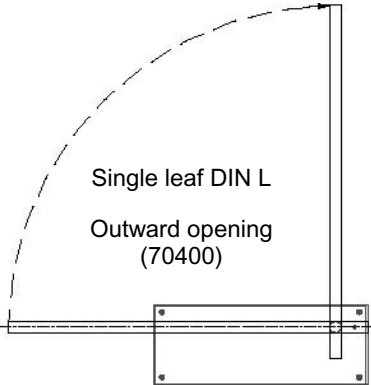
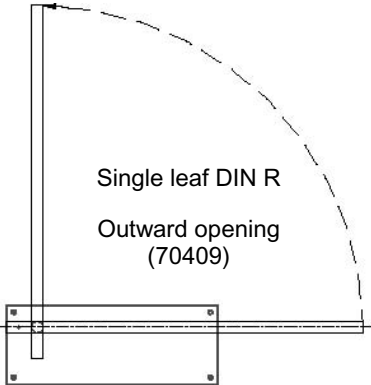


IMPORTANT NOTICE

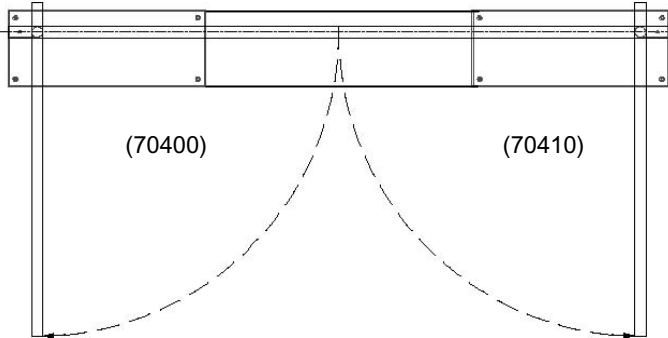
If manual locks are fitted to the door leaf, please ensure they are UNLOCKED prior to switching the drive unit on. Also ensure the drive unit is switched off before locking the door. Failure to observe this notice could result in permanent damage to the drive system and door construction.

If the mains power is off, the door can be used manually.

Variants



Double leaf - Outward opening



Double leaf - Inward opening

Troubleshooting

Adjustments



Adjustment must only be carried out by GEZE trained and approved specialists. There is a high risk of personal injury for untrained persons. GEZE can not be held responsible for any injuries caused.



Caution!

Risk of injury! Never place fingers or hands between the moving and fixed parts of the door. Entrapment forces are limited in accordance with BS 7036 however, these may be enough to cause injury especially to children. Children should always be supervised accordingly.

Fault	Cause	Action
Door opens and remains open	Program switch in the 'open' position	Set three-position program switch to 'Automatic'
	Obstacle in threshold	Remove obstacle
	Fire alarm or door release active	Reset fire alarm / door release system
Door opens and closes continuously	Object or person in closing face detection field	Check safety sensor indicator light, red indicates sensor is activated. Clear area of object.
	Object or person in radar detection field	Remove obstacle
Door does not open	Object or person in opening face detection field	Check safety sensor indicator light, red indicates sensor is activated. Clear area of object.
	Function switch in the position "Off" or "Exit"	Set program switch to 'Automatic'
	Power failure	Check the fuse and power supply isolator, switch on the power, reset the controller
	Door leaf blocked	Remove obstacle, carry out a visual inspection for mechanical damage
	Door leaf locked	Unlock door

MATERIALPRÜFUNGSAMT NORDRHEIN-WESTFALEN

Prüfstelle, Überwachungsstelle und Zertifizierungsstelle gemäß § 28 BauO NRW

CERTIFICATE OF CONFORMITY
Reg.-No. 12 9820 - DO 14.1

This is to certify in accordance with § 22 para.2 No. 2 of the Building Code (Landesbauordnung) for the Land Baden-Württemberg, that

the building products: **Swing door drive "GEZE TSA 160 " complies with the requirements**

- set forth by the technical rules in accordance with the Technical Schedule A part 1 (edition 98/2), consecutive number 6.14 of DIN 18 263-4

the manufacturer: **GEZE GmbH
Postfach 1263
D-71229 Leonberg**

the production plant: **GEZE GmbH
Reinhold-Vöster-Str. 21-29
D-71229 Leonberg**


in accordance with the results of the

- product tests carried through by the MPA NRW
- internal product control carried through by the producer
- foreign control carried through by the MPA NRW

The manufacturer is therefore entitled to mark the building products, the packing or the delivery note with the sign of conformity (Ü-sign) in accordance with the ordinance regulating conformity signs.

Dortmund, 12.12.2000




(Dipl.-Phys. Karrenberg)
Leiter der Zertifizierungsstelle

Marsbruchstraße 186 • Dortmund-Aplerbeck • Postanschrift: 44285 Dortmund • Telefon (0231) 4502-0 • Telefax (0231) 4502 586

General cleaning and maintenance

■ Maintenance of Drive Unit

Only GEZE approved technicians should carry out work on the internal workings of the drive unit and control system. Failure to observe this will void the warranty and negate responsibility for injuries caused.

Drive unit covers or threshold plates can be cleaned using a damp cloth. DO NOT allow water to enter through the drive unit cover.

Activation & Safety Sensors

Ensure plastic lenses are clean & dust free. Wipe with a dry soft cloth if necessary.

■ Preventative Maintenance

GEZE strongly advise that a preventative maintenance programme is entered into, in line with the recommendations of BS 7036 : Safety at Powered Doors for Pedestrian Use. An authorised technician qualified to BS 7036 must carry out the obligatory annual safety inspection and any servicing.

■ Fabricated Doors / Screenwork only - See separate section for electrical drive unit covers.

Atmospheric deposits, sulphurous acids, carbon dioxides and other chemicals in the air will discolour and tarnish all metalwork, and in time cause corrosion. Regular maintenance prevents atmospheric deposits building up and attacking the metals.

Anodised Aluminium

Wash with mild soap and water or a mild detergent solution, rinse down with clean water and dry off with a soft cloth or chamois leather. Apply a liquid wax polish to protect the metal from the atmosphere.

AVOID : Metal polish of any kind, abrasive cleaners, strong alkalines or acids, and the use of ammonia based cleaners for washing windows as they can cause staining of the surrounding framework.

Recommended frequency - WEEKLY.

Polyester Powder Coated Aluminium.

As with any organic coating, in order to retain the aesthetic properties, it is recommended that the coating be regularly maintained. Wash at intervals of not more than three months using a solution of warm water and mild detergent. (e.g. 5 % Teepol solution or mild washing up liquid.) All surfaces should be cleaned using a soft cloth or sponge but nothing harsher than a natural bristle brush.

AVOID : Abrasive cleaners or cleaning solutions such as ketones, esters, or alcohols.

Recommended frequency - THREE MONTHLY (depending on environment.)

General cleaning and maintenance

Polished or Satin Stainless Steel.

Wash away grime and grit with warm soapy water or a mild detergent solution using a nailbrush for awkward crevices or corners. Repeat with clean water. Dry and polish with a soft duster or chamois leather.

AVOID : Metal polishes, and all abrasives, toxic materials, acids, strong alkalines, nylon pads, wire wool.

Recommended frequency - WEEKLY.

Glass surfaces

Wash as often as possible with clean water and a chamois leather, scrim or squeegee, and dry off. The occasional application of a proprietary window cleaner or polish can be beneficial providing it does not contain ammonia. Advice may be given by a reputable window cleaning company.

Service information

- GEZE offers nationwide coverage through its base of Service and Installation Engineers. This enables us to provide an industry standard 2-3 day response time - or same day service for locking problems of an urgent nature.

- All GEZE approved engineers are BS7036 Authorised Technicians.

- Warranty Period - Up to 12 months from installation.

- Fully comprehensive GEZE parts and labour warranty which covers all faults other than those caused by abuse.

- Our out of hours telephone number is 01543 443000 (monitored 24 hours.)

- Post - Warranty period.

Following the warranty period - GEZE UK Service provides a range of Service Contracts to suit individual site requirements. The current BS7036 recommends that powered doors are serviced twice per year - our Service Contracts are therefore based on this important recommendation.

- For details please contact our Service Department - who will be pleased to discuss and submit our proposals.

- GEZE UK Service is assisted by extensive component stocks held at :

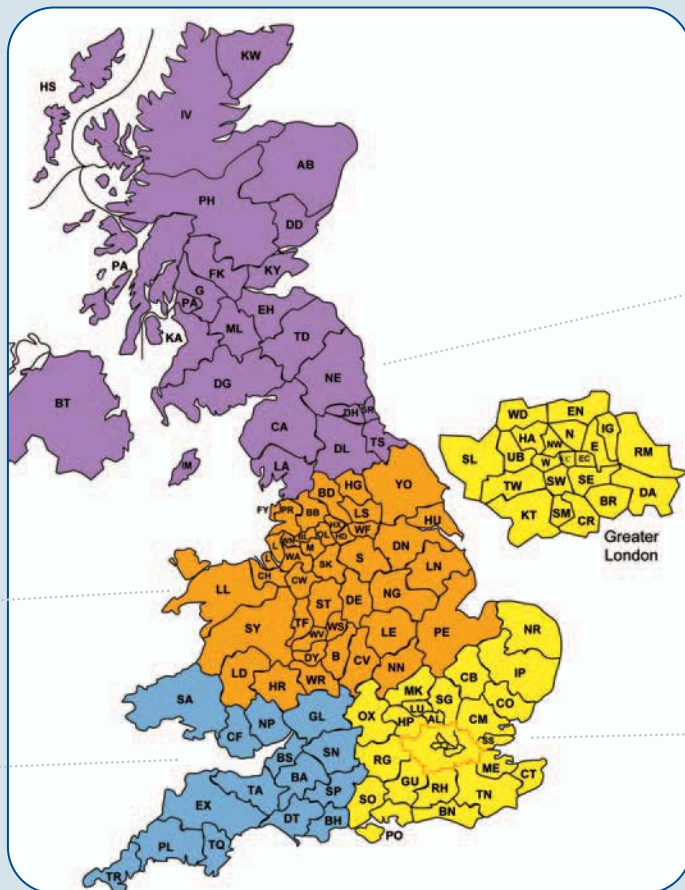
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Fax : 01543 443001

A comprehensive, 24 hour service, nationwide - from your local office

We are committed to the very best in customer service. To ensure rapid response and total peace of mind we offer a 24 hour 7 day a week service and repair for all makes of automatic and manual doors throughout the UK.



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South West Office

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Certificate No. RS 28062

