

ENIXIN3
Powered by **betiss**

TM

betiss

ENIXIN3

ENIXIN3, enlight in night



AUTOMATIC
DOORS

CONTENTS

| | |
|--------------------|---|
| BETISS AS GUARDIAN | 4 |
| ENIXINE | 6 |

| | |
|-------------------------------|-----------|
| SLIDING DOORS | 11 |
| OPERATOR FEATURES | 13 |
| OPERATION SPECIFICATIONS | 15 |
| SAFETY FEATURES | 15 |
| EXTRA ACCESSORIES AND OPTIONS | 15 |
| CERTIFICATION | 15 |

| | |
|---------------------------------|-----------|
| TELESCOPIC SLIDING DOORS | 17 |
| OPERATOR FEATURES | 19 |
| OPERATION SPECIFICATIONS | 19 |
| SAFETY FEATURES | 21 |
| EXTRA ACCESSORIES AND OPTIONS | 21 |
| CERTIFICATION | 21 |

| | |
|-------------------------------|-----------|
| CURVED SLIDING DOORS | 23 |
| OPERATOR FEATURES | 25 |
| OPERATION SPECIFICATIONS | 26 |
| SAFETY FEATURES | 26 |
| EXTRA ACCESSORIES AND OPTIONS | 27 |
| CERTIFICATION | 27 |

| | |
|-------------------------------|-----------|
| HERMETIC SLIDING DOORS | 29 |
| INSTALLATION OF THE LEAF | 30 |
| DOOR POSITIONS | 30 |
| PANEL FEATURES | 31 |
| OPERATOR FEATURES | 31 |
| OPERATION SPECIFICATIONS | 32 |
| SAFETY FEATURES | 32 |
| EXTRA ACCESSORIES AND OPTIONS | 33 |
| CERTIFICATION | 33 |



BETISS AS GUARDIAN

Today, the use of surveillance, control, and security systems for improving the quality of service to clients in public centers, as well as shopping malls, banks, hotels, hospitals, and governmental organizations, has become one of the indicators of public service evaluation. While significantly reducing the energy consumption, the number of personnel, and maintenance costs, these systems increase the level of trust and confidence of clients and their peace and security.

Based on our valuable experiences of 20 years of activity in the field of consulting, design, supply, installation, and commissioning, Betiss group becomes one of the best players in the region on the field of:

- intelligent management and monitoring systems(CCTV)
- access control
- Paging and intercom system
- automatic doors
- Parking guidance and parking management system

Optimization and integrated approach for using the mentioned solutions, make us as a reference which attract the trust of the most important political, economical, industrial, and financial centers of the county.

We had the honor to provide services to many customers such as:

- **Governmental centers:** Iran International Conference Center, The Presidential Institution and residence.
- **Industrial centers:** Persian Gulf Mineral and Metal Industries Special Zone, Khorasan Steel company, National Iranian Oil Exploration Management.

Residential and commercial buildings: Iran Mall Commercial Center, Farmanieh mall, Royal Commercial Center, Moein Mall and many other centers countrywide.

- **Transportation sector :** Shiraz subway, Karaj subway and Tehran, Isfahan, Tabriz, and several other airports
- **Health centers and hospitals:** with market share of more than 50% of installed automatic doors in this sector by installing thousands of doors such as shariati2 with 1000 beds and Tajrish Hospital with 700 beds, Comprehensive Cancer Center of Barakat Hospital and several hospitals, Betiss is No#1 at this segment of the market in the country.

With support and experiences of its technical and commercial team, Betiss Group has become the official representative of the world's top brands in the field of its activities, including TKH SECURITY, SOLUTIONS, KEYPROCESSOR, COMMEND, FACE S.r.l, INDECT, COMINFO, TESA ASSA ABLOY.

Thanks to our advanced training courses of this equipment in the relevant specialized educational centers, Now Betiss is honored to achieve following certification:

ISO 10002 and ISO 10004 certifications from QS Zurich in Switzerland

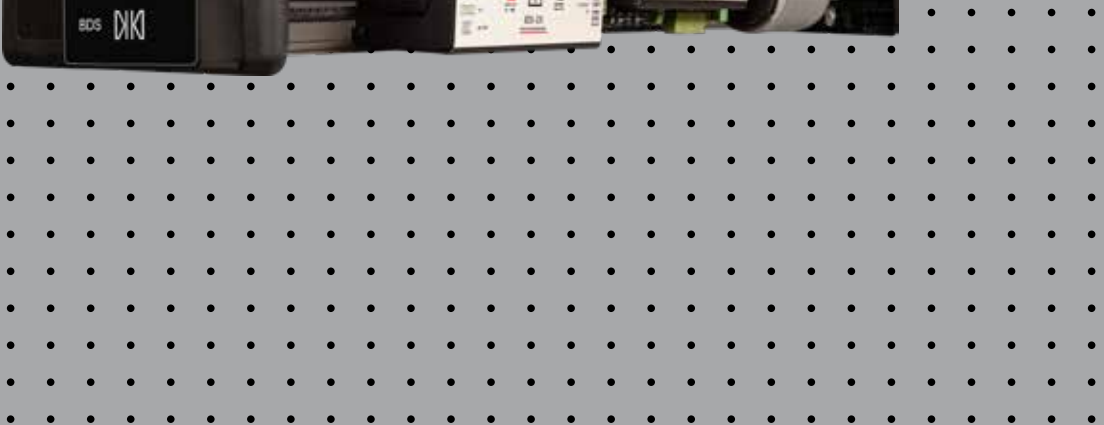
- ISO 9001:2015 from URS company in the UK
- International quality assurance and superior technology in the electronic security systems industry of ICS Europe in 2017
- International "TQD Door & Windows certificates" from the ICMF group companies, in 2018

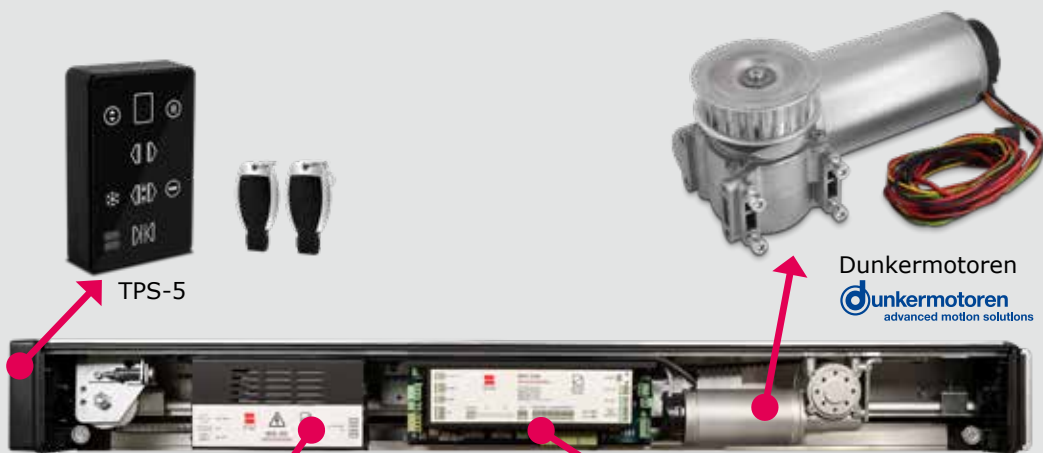
These will bring reassurance and peace of mind to our customers.

Taking advantage of the state-of-the-art technology in the world, well-experienced management staff, a trained technical team, and providing official warranty and after-sales services under the Betiss brand turned this collection into the first and best choice for designing, supplying, installing, and commissioning the security systems in the region.

ENIXIN3

Powered by **betiss**

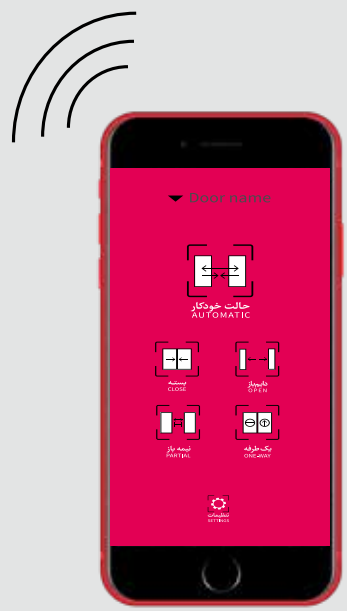




POWER SUPPLY



MAIN BOARD



ENIXINE



SZUTEST

CERTIFICATE OF COMPLIANCE

The technical file and test reports of the following product have been checked and found in compliance with the Parliament and Council Directive 2014/35/EU of 26 February 2014 on the harmonization of the laws of Member States relating to electrical equipment designed for use within certain voltage limits.

Teknik dosya ve test raporları incelenerek, belirtilen ürünün Avrupa Birliği Teknik Komisyonu tarafından 26 Şubat 2014 tarihinde yayınlanan 2014/35/EU Belirli Gerilim Sınırları Dahilinde Çalışmak Üzere Tasarlanmış Teçhizat ile ilgili yönetmeliğine uygunluğu saptanmıştır.

Certificate Number:

Sertifika Numarası:

SZU- 22MA17259-1

Applicant:

Başvuru Sahibi:

Pishtazan Fanavari TAHA (betiss Brand)

unit 5, No. 373, Dr. Shariati Av.,Theran,Iran

Manufacturer:

Üretici:

Pishtazan Fanavari TAHA (betiss Brand)

unit 5, No. 373, Dr. Shariati Av.,Theran,Iran

Trade Mark:

Ticari Marka:



Product:

Ürün:

Automatic Sliding Door

Type:

Model:

BDS-200

Standard:

Standart:

IEC 60335-2-103:2015

Base of attestation:

Onay Dayanağı:

File of technical documentation, test report Ref. No. **AAST-011133**

Teknik Dokümantasyon, numaralı Test Raporu No. AAST-011133

Validity:

Geçerlilik:

21.02.2022-22.02.2025

* This Certificate of compliance is issued on a voluntary basis according to Council Directive 2014/35/EU of 26 February 2014 on the harmonization of the laws of Member States relating to electrical equipment designed for use within certain voltage limits and complies essential health and safety requirements of the directive. The referred technical file(s) is reviewed and attested with presumption of compliance with the essential requirements listed EU Directive(s) above. This attestation does not abrogate the compulsory obligation of the manufacturer to issue the declaration of conformity

**Bu uygunluk sertifikası 26 Şubat 2014 tarihinde yayınlanan 2014/35/EU Belirli Gerilim Sınırları Dahilinde Çalışmak Üzere Tasarlanmış Teçhizat ile ilgili yönetmeliğine göre isteğe bağlı düzenlenmiştir. Yukarıda listelenmiş ekipman/makinaların ilgili yönetmeliğin temel gerekliliklerine uygun olduğunu onaylar. Diğer ilgili direktiflere uyumludur. Bu onay üreticinin uygunluk beyanı düzenleme zorunluluğunu ortadan kaldırmaz. Referans teknik dosya ile ürdünün yukarıda belirtilen AT Direktiflerinin temel gerekliliklerine uygunluğu kabul edilir.*

Dept. Manager
Şeyda UÇLU
SZUTEST
[Signature]

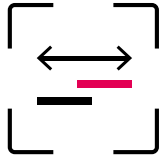
SZUTEST UYGUNLUK DEĞERLENDİRME A.Ş.
Tatlısu Mahallesi, Akif İnan Sk. No:1 Ümraniye 34774 İSTANBUL / TÜRKİYE

szutest.com.tr

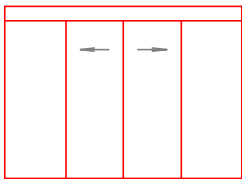




SLIDING DOORS

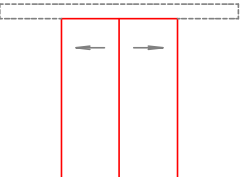


ENIXINE is a powerful, fully automated operator that can be used with different types of sliding doors. Energy and power optimization is the primary design criteria of this device. Betiss sliding door ensures security and simplicity at the same time.



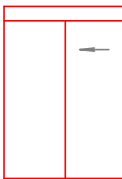
Double sliding door

incl. fixed screen

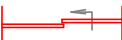
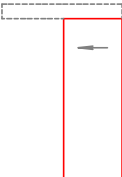


Double sliding door

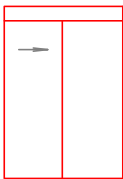
excl. fixed screen



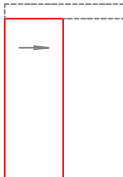
Single sliding door (LO)



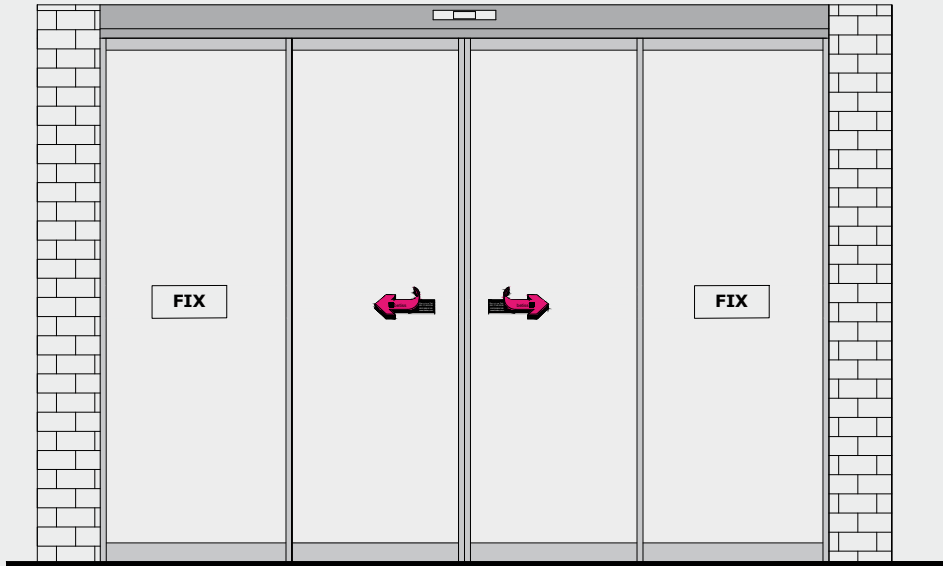
Single sliding door (LO)



Single sliding door (RO)

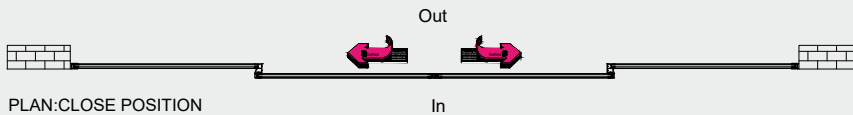


Single sliding door (RO)



ELEVATION

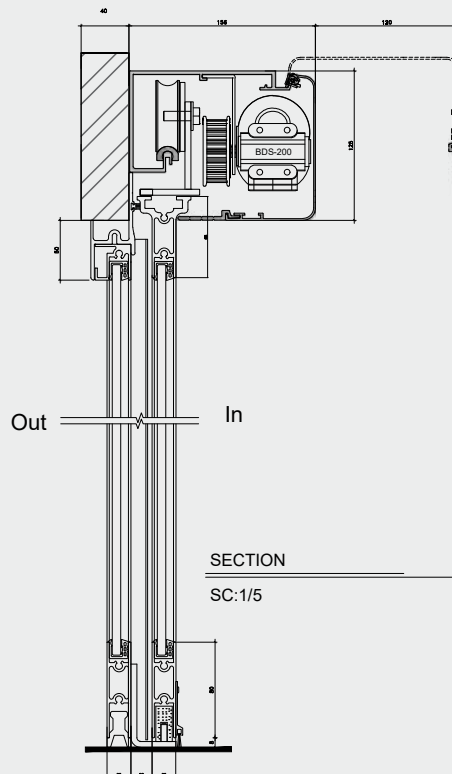
SC:1/25



PLAN:CLOSE POSITION

SC:1/25

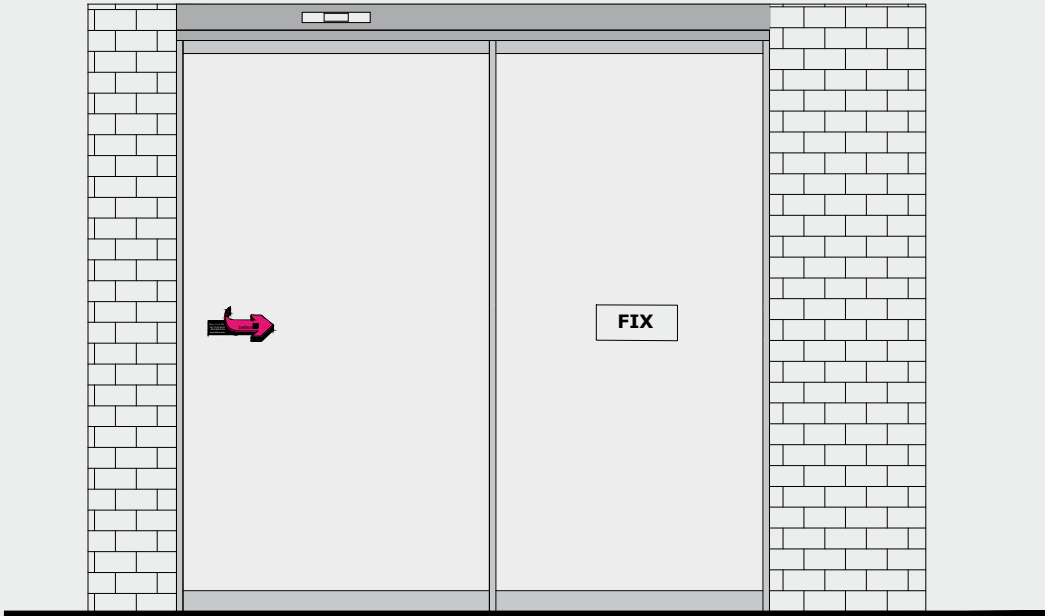
| Series | ENIXINE 1 wings | ENIXINE 2 wings |
|--------------------------------|---------------------|---------------------|
| Dimensions mm | 125 x 156 x 4500 | 125 x 156 x 6000 |
| Clear opening width | 900 to 2000 | 900 to 3000 |
| Max load kg | 100 | 200 |
| Max speed m/s | 0/8 | 1/6 |
| Power supply | 230 VAC 50 Hz | 230 VAC 50 Hz |
| Rated power W | 120 | 120 |
| Operating temperature °C | -15 +50 | -15 +50 |
| Accessory output | 21 VDC (6 A max) | 21 VDC (6 A max) |



OPERATOR FEATURES

- **Easy Programming:** Programming of the operator is straightforward and can be done for different users and environments. Betiss also provides a graphical installation manual with a troubleshooting table attached.
- **Advanced Technology:** The central controller is based on the newest CPU technology and has an advanced intelligent control system.
- **Minimized consumption:** low consumption(120W), which allows the device to work even on a battery for a long time
- **Optimized isolation:** which enhances the opening time to Help with air conditioning in cold and hot seasons.
- **Easy Integration:** the ability to Integrate with Building intelligent systems such as fire alarm systems and building management systems (BMS)
- **Safety standards:** this device can follow safety signals from up to 4 sensors, from radar detectors to infrared sensors, including Side panel safety according to EN12650.
- **Intelligent control unit:** equipped with a self-diagnose system and a Memory for saving errors.
- **LCD:** the operator is equipped with a character LCD to show the error list and door's setting.
- **Well decorated cover:** the operator will come with many different finishing such as steel, brass, anodized aluminum with customizing the design according to any architecture
- **Traffic controlled opening width:** Using state-of-the-art software, the system settings will be changed according to outside weather and traffic to enhance the operation.
- **World-class Motion system:** a complete DC Motor motion system, drive, and decelerator from "Dunkermotoren" made in Germany ensures smooth motion, endurance, and long life. This Powerful motor allows the steel carriers with a maximum load of 100Kg per door leaf. This Motor and drive system has a TUV certificate according to the following standards:
 - EC 61508-1 :2010, IEC61508-2:2010
 - ISO 13849-1:2015, 13849-2:2012
 - IEC 61800-5-2:2016
 - IEC 62061:2005 + A1: 2012+ A2:2015 + CSV/COR1:2015,
- **Line power:** 110 to 240VAC 50Hz with 120W power usage
- **Remote control:** there are also two remote control sets in every operator package to ensure easy door management. More remotes could be defined upon customer request.
- **Smartphone application:** an exclusive application is designed for Android and IOS smartphones which have many capabilities besides changing door setting and acting as a remote control
- **Air curtain control:** A designated output acts as a command for this device to have a coordinated operation with the air curtain.





ELEVATION

SC:1/25

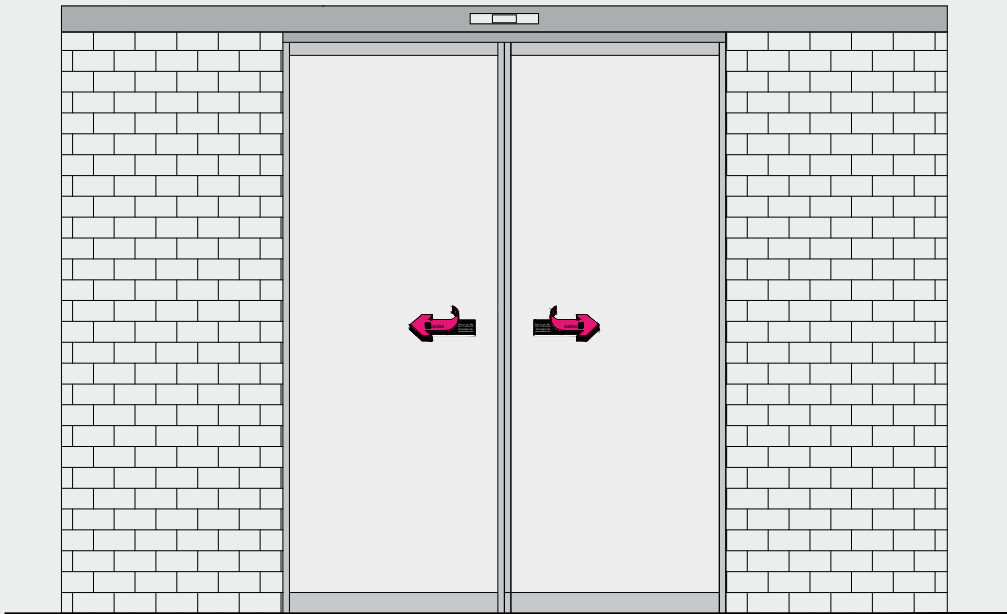
Out



PLAN:CLOSE POSITION

In

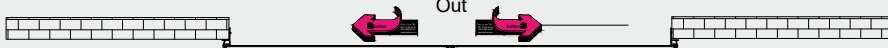
SC:1/25



ELEVATION

SC:1/25

Out



PLAN:CLOSE POSITION

In

SC:1/25

OPERATION SPECIFICATIONS

- **Operation:** adjustable to control unit, Pushbutton, No touch magnetic sensors, safety systems, remote control.
- **Control unit:** Based on New AI Method with a self-diagnosis Controller can be programmed to change the operation.
- **Door default modes:** Automatic, always open, always closed (with an optional lock), summer/winter mode, ...
- **Adjustable final distance:** The last space between door leaves could be adjusted to avoid trapping small parts of buddies like fingers and toes.

SAFETY FEATURES

- **Obstacle avoidance:** backward opening before an Obstacle collision with the maximum sensibility to keep passengers' peace of mind.
- **Self-test function:** auto checking of sensor reliability in every opening cycle
- **Adaptive speed control:** controlling the speed of the door according to TUV guidelines to ensure optimum speed according to chassis weight.
- **Emergency Power failure:** acting according to NFPA 101 version 2021 in the case of emergency failure to maximize safety. This includes an easy opening with hand and saving all presets in memory to continue regular operation afterward.
- **Easy integration with any Fire alarm system:** in case of emergencies, this door could accept input signals from a fire IO device in the loop. There are input functions to support door opening and even unlocking the door in case of using the electrical lock. These inputs can operate to complete security systems with an option to lock the doors in security emergencies.

EXTRA ACCESSORIES AND OPTIONS

- **Uninterrupted use kit (UPS & Battery):** due to the system's low power consumption, it is highly recommended to use a backup battery or UPS to operate in a power failure. The solo battery back is intended to use for a single time, and UPS is intended to keep the automatic door fully operating in case of emergencies.
- **Electrical Lock:** An electro powered locking mechanism can be added to the system and be activated through the control unit. There are two selectable options for this kind of device in case of power failure: fail-safe (which will unlock to provide safety) and fail-secure (Which remain Locked to provide security). There are indicative LEDs to show the operation mode.
- **Mechanical Lock:** An optional key and cylinder lock could easily mount on the system.

CERTIFICATION

- ISO 9001:2015 from URS company in the UK
- ISO 10002 and ISO 10004 certifications from QS Zurich in Switzerland
- International quality assurance and superior technology in the electronic security systems industry of ICS Europe in 2017
- International "TQD Door & Windows certificates" from the ICMF group companies, in 2018
- CE certificate for producing automatic doors according to IEC60335-2-103



DEY BANK, CENTRAL BUILDING

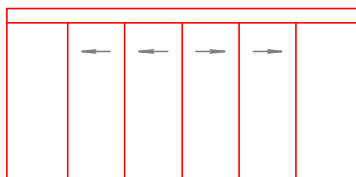
TELESCOPIC SLIDING DOORS



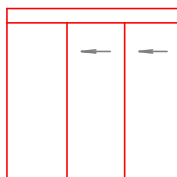
Telescopic operator for sliding doors maximizes the entrance width, helps the designer when space is the priority and provides an impressive solution. This type of door could provide a very optimized solution in some cases and could adapt to a wide range of customer needs.

This door mechanism design has many years of experience, integrating elegance and effectiveness. Despite its super slim design, telescopic operators are suited for heavy duties.

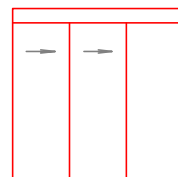
Beneath the operator cover Intelligent control unit, a Power supply unit, and an electromechanical lock are installed with all of the moving parts, which are engineered to transfer their motion to door leaves through a well-designed timing belt.



Double telescopic sliding door

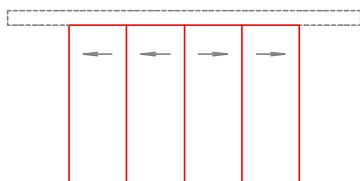


Single telescopic sliding door (LO)

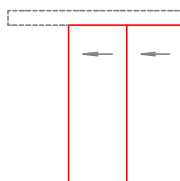


Single telescopic sliding door (RO)

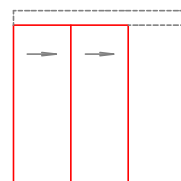
incl. fixed screen



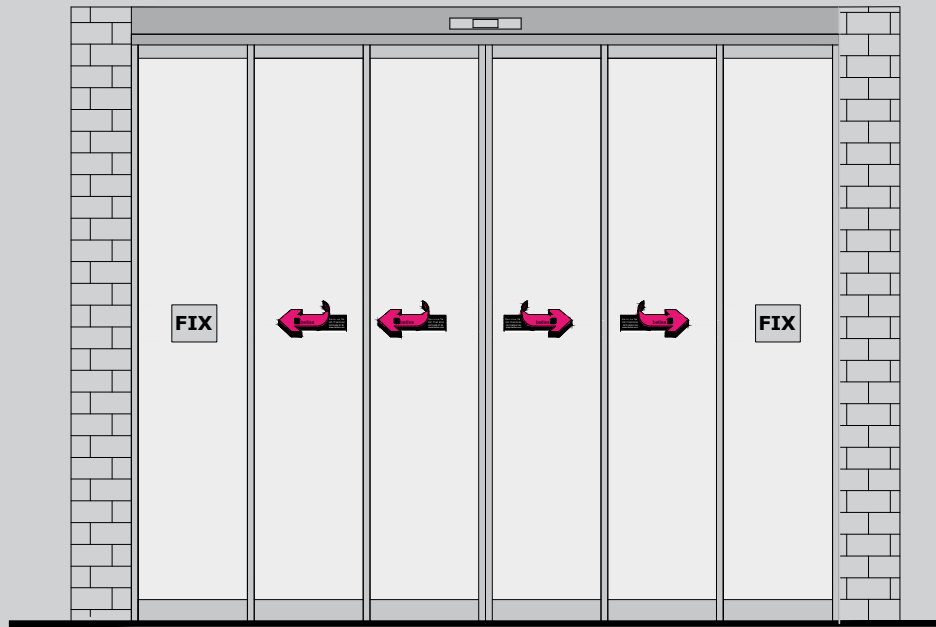
Double telescopic sliding door



Single telescopic sliding door (LO)

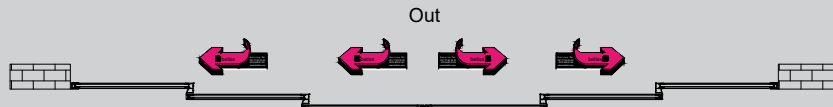


Single telescopic sliding door (RO)



ELEVATION

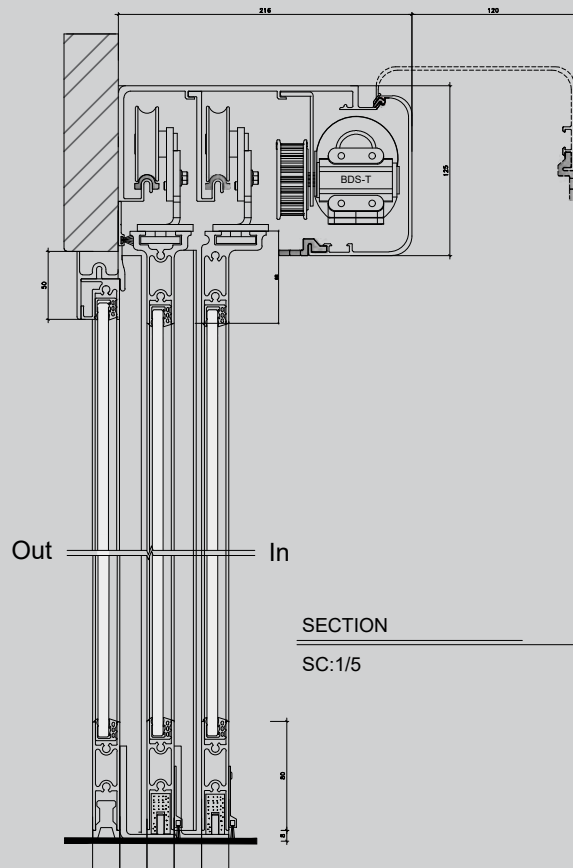
SC:1/25



PLAN:CLOSE POSITION

SC:1/25

| Series | ENIXINE -T 2 wings | ENIXINE -T 4 wings |
|--------------------------------|-----------------------|-----------------------|
| Dimensions mm | 125 x 216 x 4500 | 125 x 216 x 6000 |
| Clear opening width | 1500 to 4500 | 2000 to 4500 |
| Max load kg | 2 x 100 | 4 x 70 |
| Max speed m/s | 0/8 | 1/6 |
| Power supply | 230 VAC 50 Hz | 230 VAC 50 Hz |
| Rated power W | 120 | 120 |
| Operating temperature °C | -15 +50 | -15 +50 |
| Accessory output | 21 VDC (6 A max) | 21 VDC (6 A max) |



SECTION

SC:1/5

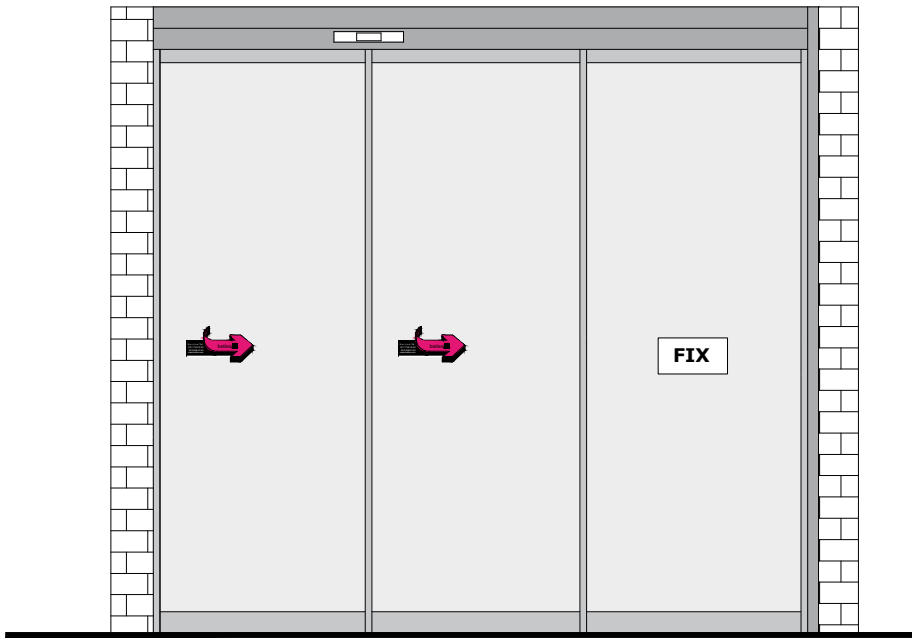
OPERATOR FEATURES

- **Easy Programming:** Programming of the operator is straightforward and can be done for different users and environments. Betiss also provides a graphical installation manual with a troubleshooting table attached.
- **Advanced Technology:** The central controller is based on the newest CPU technology and has an advanced intelligent control system.
- **Minimized consumption:** low consumption(120W), which allows the device to work even on a battery for a long time
- **Optimized isolation:** which enhances the opening time to Help with air conditioning in cold and hot seasons.
- **Easy Integration:** the ability to Integrate with Building intelligent systems such as fire alarm systems and building management systems (BMS)
- **Safety standards:** this device can follow safety signals from up to 4 sensors, from radar detectors to infrared sensors, including Side panel safety according to EN12650.
- **Intelligent control unit:** equipped with a self-diagnose system and a Memory for saving errors.
- **LCD:** the operator is equipped with a character LCD to show the error list and door's setting.
- **Well decorated cover:** the operator will come with many different finishing such as steel, brass, anodized aluminum with customizing the design according to any architecture
- **Traffic controlled opening width:** Using state-of-the-art software, the system settings will be changed according to outside weather and traffic to enhance the operation.
- **World-class Motion system:** a complete DC Motor motion system, drive, and decelerator from "Dunkermotoren" made in Germany ensures smooth motion, endurance, and long life. This Powerful motor allows the steel carriers with a maximum load of 100Kg per door leaf. This Motor and drive system has a TUV certificate according to the following standards:
 - EC 61508-1 :2010, IEC61508-2:2010
 - ISO 13849-1:2015, 13849-2:2012
 - IEC 61800-5-2:2016
 - IEC 62061:2005 + A1: 2012+ A2:2015 + CSV/COR1:2015,
- **Line power:** 110 to 240VAC 50Hz with 120W power usage
- **Remote control:** there are also two remote control sets in every operator package to ensure easy door management. More remotes could be defined upon customer request.
- **Smartphone application:** an exclusive application is designed for Android and IOS smartphones which have many capabilities besides changing door setting and acting as a remote control
- **Air curtain control:** A designated output acts as a command for this device to have a coordinated operation with the air curtain.

OPERATION SPECIFICATIONS

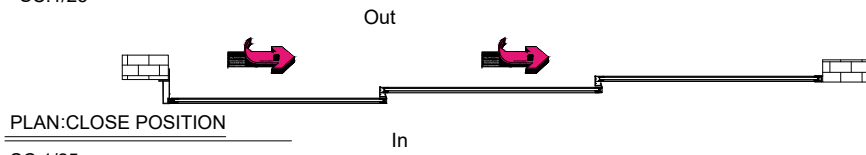
- **Operation:** adjustable to control unit, Pushbutton, No touch magnetic sensors, safety systems, remote control.
- **Control unit:** Based on New AI Method with a self-diagnosis Controller can be programmed to change the operation.
- **Door default modes:** Automatic, always open, always closed (with an optional lock), summer/winter mode, ...
- **Adjustable final distance:** The last space between door leaves could be adjusted to avoid trapping small parts of buddies like fingers and toes.





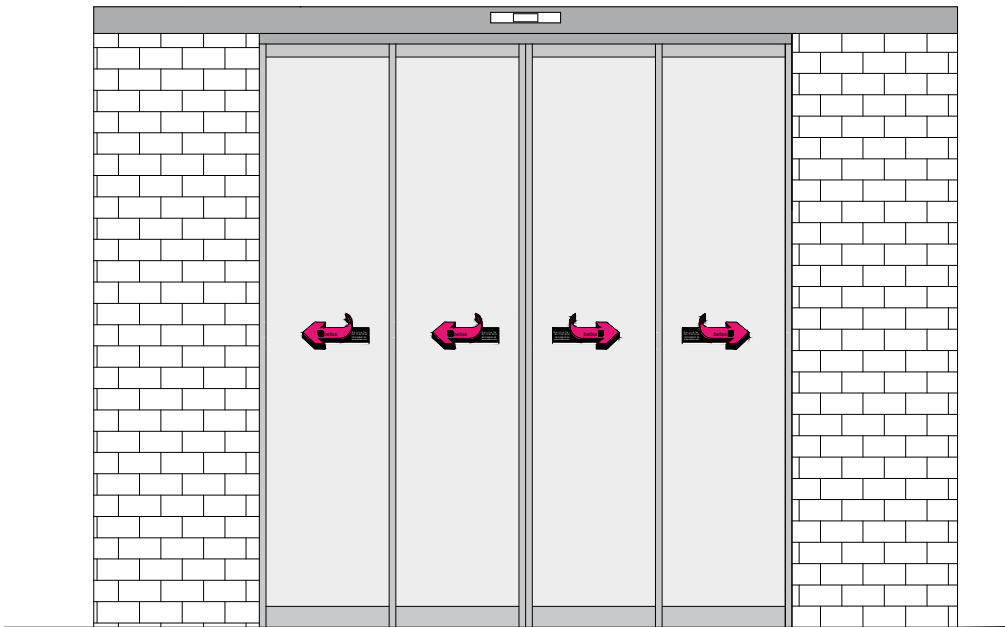
ELEVATION

SC:1/25



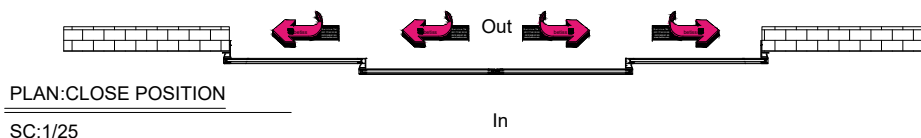
PLAN:CLOSE POSITION

SC:1/25



ELEVATION

SC:1/25



PLAN:CLOSE POSITION

SC:1/25

SAFETY FEATURES

- **Obstacle avoidance:** backward opening before an Obstacle collision with the maximum sensibility to keep passengers' peace of mind.
- **Self-test function:** auto checking of sensor reliability in every opening cycle
- **Adaptive speed control:** controlling the speed of the door according to TUV guidelines to ensure optimum speed according to chassis weight.
- **Emergency Power failure:** acting according to NFPA 101 version 2021 in the case of emergency failure to maximize safety. This includes an easy opening with hand and saving all presets in memory to continue regular operation afterward.
- **Easy integration with any Fire alarm system:** in case of emergencies, this door could accept input signals from a fire IO device in the loop. There are input functions to support door opening and even unlocking the door in case of using the electrical lock. These inputs can operate to complete security systems with an option to lock the doors in security emergencies.

EXTRA ACCESSORIES AND OPTIONS

- **Uninterrupted use kit (UPS & Battery):** due to the system's low power consumption, it is highly recommended to use a backup battery or UPS to operate in a power failure. The solo battery back is intended to use for a single time, and UPS is intended to keep the automatic door fully operating in case of emergencies.
- **Electrical Lock:** An electro powered locking mechanism can be added to the system and be activated through the control unit. There are two selectable options for this kind of device in case of power failure: fail-safe (which will unlock to provide safety) and fail-secure (Which remain Locked to provide security). There are indicative LEDs to show the operation mode.
- **Mechanical Lock:** An optional key and cylinder lock could easily mount on the system.

CERTIFICATION

- ISO 9001:2015 from URS company in the UK
- ISO 10002 and ISO 10004 certifications from QS Zurich in Switzerland
- International quality assurance and superior technology in the electronic security systems industry of ICS Europe in 2017
- International "TQD Door & Windows certificates" from the ICMF group companies, in 2018
- CE certificate for producing automatic doors according to IEC60335-2-103

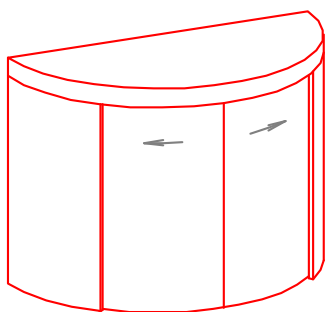


CURVED SLIDING DOORS



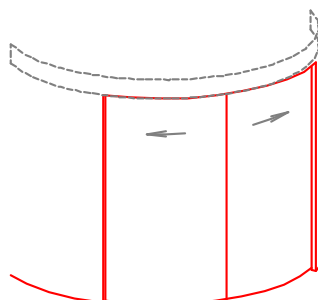
the curved sliding doors are designed and produced for a better adaptation to building architectures. This is a 3-dimensional entrance with desired depth in addition to normal height and width, which glorify the building, and simultaneously, it is still highly efficient.

A curved sliding door system could be adjusted to operate within a defined dimension limit and give a wider opening. It should be noted that all Betiss safety standards are respected in this door, and its operation is very smooth and noiseless like other Betiss sliding doors.



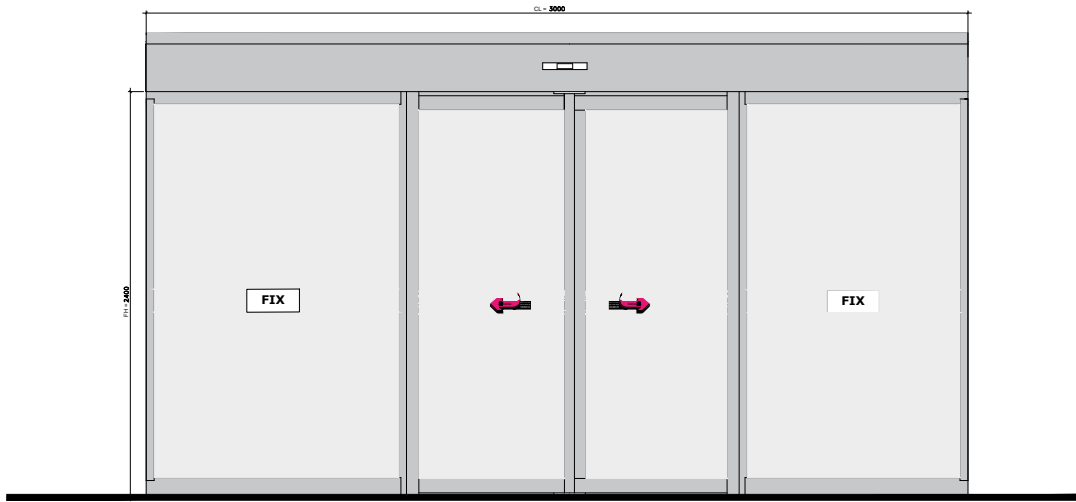
Curved double sliding door

incl. fixed screen

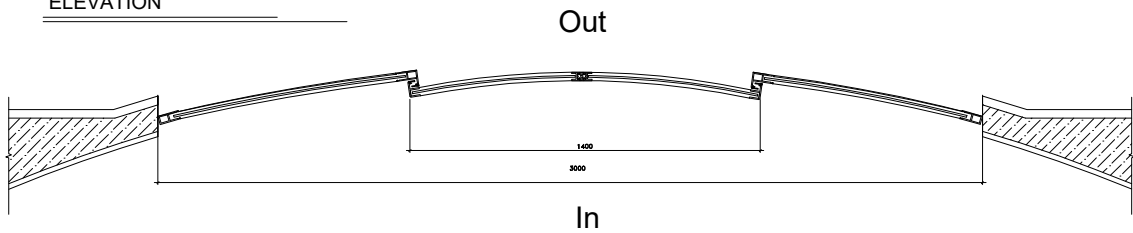


Curved double sliding door

excl. fixed screen

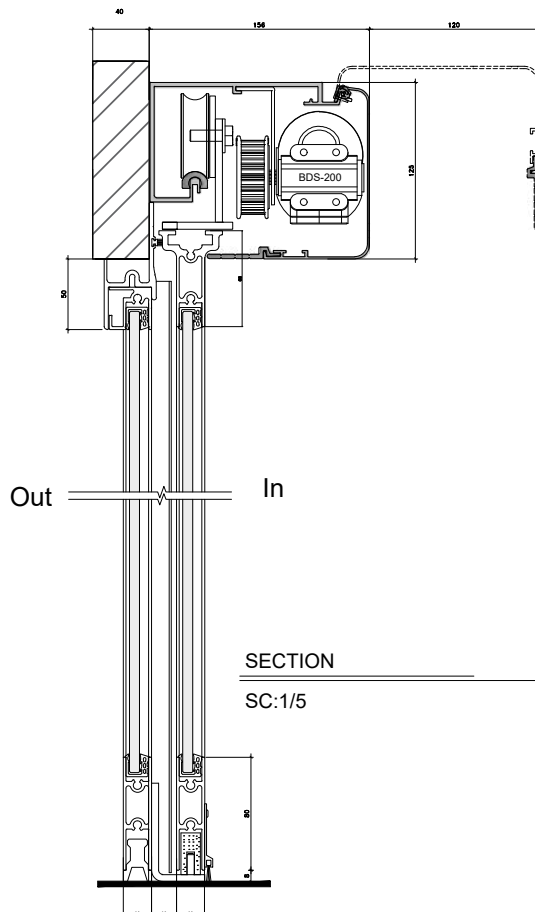


ELEVATION



PLAN

| | |
|---|-----------------------------|
| Series | ENIXINE - 2 |
| Dimensions mm | 125 × 156 × 6000 |
| Clear opening width | 900 to 3500 |
| Max load kg | 2 x 120 |
| Max speed m/s | 1/6 |
| Power supply | 230 VAC 50 Hz |
| Rated power W | 120 |
| Operating temperature °C | -15 +50 |
| Accessory output | 21 VDC (6 A max) |



OPERATOR FEATURES

- **Easy Programming:** Programming of the operator is straightforward and can be done for different users and environments. Betiss also provides a graphical installation manual with a troubleshooting table attached.
- **Advanced Technology:** The central controller is based on the newest CPU technology and has an advanced intelligent control system.
- **Minimized consumption:** low consumption(120W), which allows the device to work even on a battery for a long time
- **Optimized isolation:** which enhances the opening time to Help with air conditioning in cold and hot seasons.
- **Easy Integration:** the ability to Integrate with Building intelligent systems such as fire alarm systems and building management systems (BMS)
- **Safety standards:** this device can follow safety signals from up to 4 sensors, from radar detectors to infrared sensors, including Side panel safety according to EN12650.
- **Intelligent control unit:** equipped with a self-diagnose system and a Memory for saving errors.
- **LCD:** the operator is equipped with a character LCD to show the error list and door's setting.
- **Well decorated cover:** the operator will come with many different finishing such as steel, brass, anodized aluminum with customizing the design according to any architecture
- **Traffic controlled opening width:** Using state-of-the-art software, the system settings will be changed according to outside weather and traffic to enhance the operation.
- **World-class Motion system:** a complete DC Motor motion system, drive, and decelerator from "Dunkermotoren" made in Germany ensures smooth motion, endurance, and long life. This Powerful motor allows the steel carriers with a maximum load of 100Kg per door leaf. This Motor and drive system has a TUV certificate according to the following standards:
 - EC 61508-1 :2010, IEC61508-2:2010
 - ISO 13849-1:2015, 13849-2:2012
 - IEC 61800-5-2:2016
 - IEC 62061:2005 + A1: 2012+ A2:2015 + CSV/COR1:2015,
- **Line power:** 110 to 240VAC 50Hz with 120W power usage
- **Remote control:** there are also two remote control sets in every operator package to ensure easy door management. More remotes could be defined upon customer request.
- **Smartphone application:** an exclusive application is designed for Android and IOS smartphones which have many capabilities besides changing door setting and acting as a remote control
- **Air curtain control:** A designated output acts as a command for this device to have a coordinated operation with the air curtain.

OPERATION SPECIFICATIONS

- **Operation:** adjustable to control unit, Pushbutton, No touch magnetic sensors, safety systems, remote control.
- **Control unit:** Based on New AI Method with a self-diagnosis Controller can be programmed to change the operation.
- **Door default modes:** Automatic, always open, always closed (with an optional lock), summer/winter mode, ...
- **Adjustable final distance:** The last space between door leaves could be adjusted to avoid trapping small parts of buddies like fingers and toes.
- **Airlock coordination:** in this mode, two doors could operate simultaneously to airlock a space by not opening two entries at the same time

SAFETY FEATURES

- **Obstacle avoidance:** backward opening before an Obstacle collision with the maximum sensibility to keep passengers' peace of mind.
- **Self-test function:** auto checking of sensor reliability in every opening cycle
- **Adaptive speed control:** controlling the speed of the door according to TUV guidelines to ensure optimum speed according to chassis weight.
- **Emergency Power failure:** acting according to NFPA 101 version 2021 in the case of emergency failure to maximize safety. This includes an easy opening with hand and saving all presets in memory to continue regular operation afterward.
- **Easy integration with any Fire alarm system:** in case of emergencies, this door could accept input signals from a fire IO device in the loop. There are input functions to support door opening and even unlocking the door in case of using the electrical lock. These inputs can operate to complete security systems with an option to lock the doors in security emergencies.

EXTRA ACCESSORIES AND OPTIONS

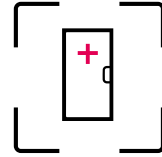
- **Uninterrupted use kit(UPS & Battery):** due to the system's low power consumption, it is highly recommended to use a backup battery or UPS to operate in a power failure. The solo battery back is intended to use for a single time, and UPS is intended to keep the automatic door fully operating in case of emergencies.
- **Electrical Lock:** An electro powered locking mechanism can be added to the system and be activated through the control unit. There is two selectable option for this kind of device in case of power failure: fail-safe (which will unlock to provide safety) and fail-secure (Which remain Locked to provide security). There are indicative LEDs to show the operation mode.
- **Mechanical Lock:** An optional key and cylinder lock could easily mount on the system.

CERTIFICATION

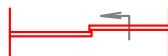
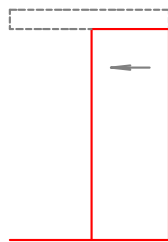
- ISO 9001:2015 from URS company in the UK
- ISO 10002 and ISO 10004 certifications from QS Zurich in Switzerland
- International quality assurance and superior technology in the electronic security systems industry of ICS Europe in 2017
- International "TQD Door & Windows certificates" from the ICMF group companies, in 2018
- CE certificate for producing automatic doors according to IEC60335-2-103



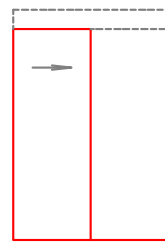
HERMETIC SLIDING DOORS



This type of sliding door is designed and produced exclusively for special rooms in which their space should maintain a high standard of cleanness and air pressure. Using state-of-the-art technology, these doors have a very smooth motion and improve dirt, sound, and thermal insulation to the desired level. It should be noted that these kinds of doors are also suitable for meetings and conferences due to their excellent noise reduction characteristics.



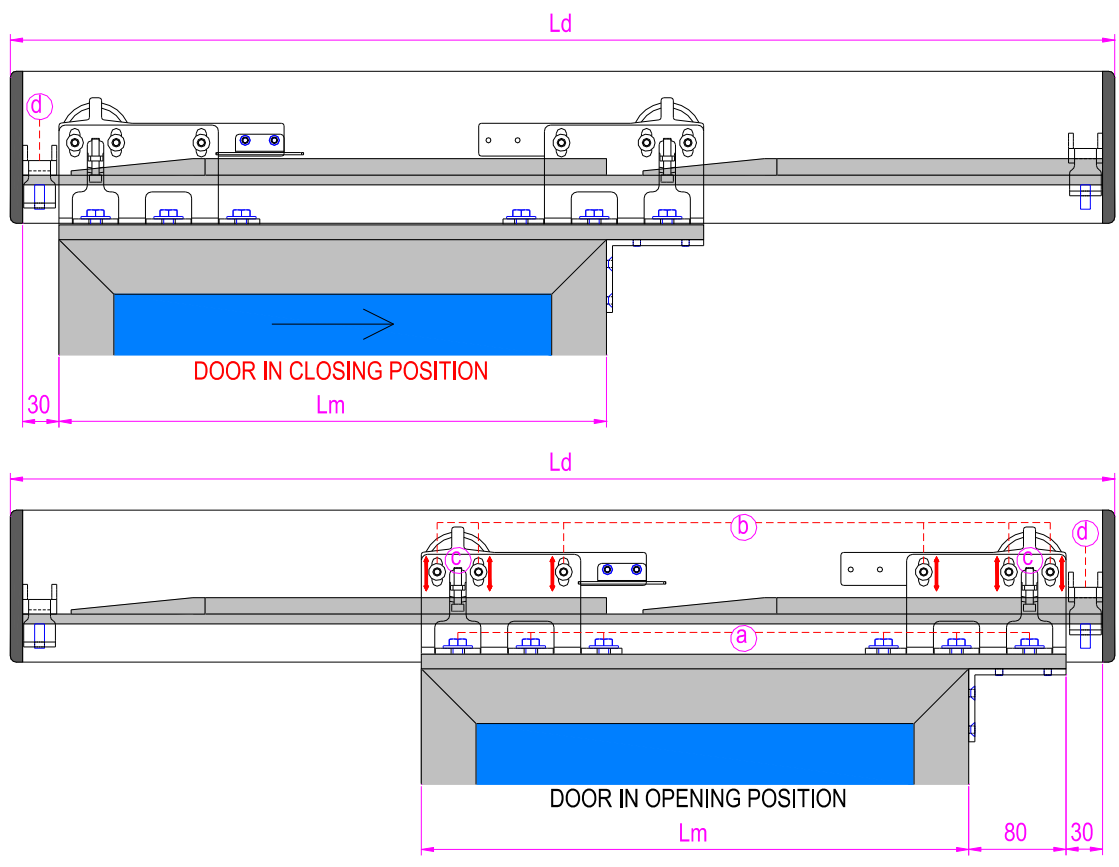
Single sliding door
(LO)



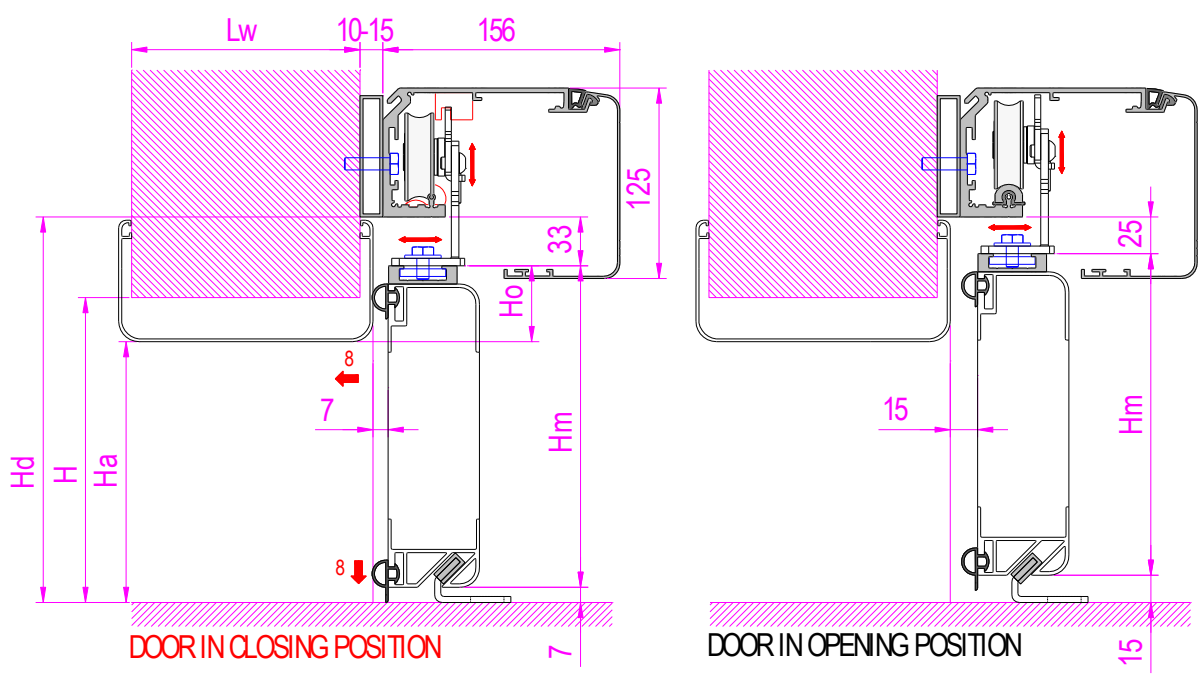
Single sliding door
(RO)

excl. fixed screen

INSTALLATION OF THE LEAF



DOOR POSITIONS



PANEL FEATURES

- **Standard Acoustic design:** Weighted Sound Reduction Index or Rw is the rating used to measure the sound insulating abilities of walls, floors, windows, and doors. For Betiss hermetic doors this index is 28 dB (up to 34 dB: optional) in the human hearing frequency which is the standard range for acoustic doors.
- **Innovative sealing method:** Using unique material and extraordinary design, sealing quality is beyond desired limits. The sealing material is also secured resistance against detergents and disinfectants.
- **Unique Manual Handle:** there is a manual handle on the door with a lever mechanism that eases the opening, and the door can be opened with just one move. There is also a return mechanism in the handle which turn it back to the neutral position.
- **Panel material:** Foam or wood with 0.8mm HPL coating on both sides (optional 1 to 2 mm lead inlay for X-ray rooms and Radioisotope rooms)
- **Windows:** there are many different sizes and shapes available for the windows:
 - Square standard sizes: 300 mm x300 mm, 300 mm x600 mm, 600 mm x600 mm, or other sizes upon customer request.
 - Round shape window with stainless steel frame (multilayer glass)
 - Frameless level glass (Insulated glass)
 - Window with opaque glass (Insulated glass)
 - Window with laser one side protection (Insulated glass)

OPERATOR FEATURES

- **Easy Programming:** Programming of the operator is straightforward and can be done for different users and environments. Betiss also provides a graphical installation manual with a troubleshooting table attached.
- **Advanced Technology:** The central controller is based on the newest CPU technology and has an advanced intelligent control system.
- **Minimized consumption:** low consumption(120W), which allows the device to work even on a battery for a long time
- **Optimized isolation:** which enhances the opening time to Help with air conditioning in cold and hot seasons.
- **Easy Integration:** the ability to Integrate with Building intelligent systems such as fire alarm systems and building management systems (BMS)
- **Safety standards:** this device can follow safety signals from up to 4 sensors, from radar detectors to infrared sensors, including Side panel safety according to EN12650.
- **Intelligent control unit:** equipped with a self-diagnose system and a Memory for saving errors.
- **LCD:** the operator is equipped with a character LCD to show the error list and door's setting.
- **Well decorated cover:** the operator will come with many different finishing such as steel, brass, anodized aluminum with customizing the design according to any architecture
- **Traffic controlled opening width:** Using state-of-the-art software, the system settings will be changed according to outside weather and traffic to enhance the operation.
- **World-class Motion system:** a complete DC Motor motion system,

drive, and decelerator from "Dunkermotoren" made in Germany ensures smooth motion, endurance, and long life. This Powerful motor allows the steel carriers with a maximum load of 100Kg per door leaf. This Motor and drive system has a TUV certificate according to the following standards:

- EC 61508-1 :2010, IEC61508-2:2010
- ISO 13849-1:2015, 13849-2:2012
- IEC 61800-5-2:2016
- IEC 62061:2005 + A1: 2012+ A2:2015 + CSV/COR1:2015,
- **Line power:** 110 to 240VAC 50Hz with 120W power usage
- **Remote control:** there are also two remote control sets in every operator package to ensure easy door management. More remotes could be defined upon customer request.
- **Smartphone application:** an exclusive application is designed for Android and IOS smartphones which have many capabilities besides changing door setting and acting as a remote control
- **Air curtain control:** A designated output acts as a command for this device to have a coordinated operation with the air curtain.

OPERATION SPECIFICATIONS

- **Operation:** adjustable to control unit, Pushbutton, No touch magnetic sensors, safety systems, remote control.
- **Control unit:** Based on New AI Method with a self-diagnosis Controller can be programmed to change the operation.
- **Door default modes:** Automatic, always open, always closed (with an optional lock), summer/winter mode, ...
- **Adjustable final distance:** The last space between door leaves could be adjusted to avoid trapping small parts of buddies like fingers and toes.
- **Airlock coordination:** in this mode, two doors could operate simultaneously to airlock a space by not opening two entries at the same time

SAFETY FEATURES

- **Obstacle avoidance:** backward opening before an Obstacle collision with the maximum sensibility to keep passengers' peace of mind.
- **Self-test function:** auto checking of sensor reliability in every opening cycle
- **Adaptive speed control:** controlling the speed of the door according to TUV guidelines to ensure optimum speed according to chassis weight.
- **Emergency Power failure:** acting according to NFPA 101 version 2021 in the case of emergency failure to maximize safety. This includes an easy opening with hand and saving all presets in memory to continue regular operation afterward.
- **Easy integration with any Fire alarm system:** in case of emergencies, this door could accept input signals from a fire IO device in the loop. There are input functions to support door opening and even unlocking the door in case of using the electrical lock. These inputs can operate to complete security systems with an option to lock the doors in security emergencies.

EXTRA ACCESSORIES AND OPTIONS

- **Uninterrupted use kit(UPS & Battery):** due to the system's low power consumption, it is highly recommended to use a backup battery or UPS for the system to operate in a power failure. The solo battery back is intended to use for a single time, and UPS is intended to keep the automatic door fully operating in case of emergencies.
- **Electrical Lock:** An electro powered locking mechanism can be added to the system and be activated through the control unit. There is two selectable option for this kind of device in case of power failure: fail-safe (which will unlock to provide safety) and fail-secure (Which remain Locked to provide security). There are indicative LEDs to show the operation mode.
- **Mechanical Lock:** An optional key and cylinder lock could easily mount on the system.

CERTIFICATION

- ISO 9001:2015 from URS company in the UK
- ISO 10002 and ISO 10004 certifications from QS Zurich in Switzerland
- International quality assurance and superior technology in the electronic security systems industry of ICS Europe in 2017
- International "TQD Door & Windows certificates" from the ICMF group companies, in 2018
- CE certificate for producing automatic doors according to IEC60335-2-103

