

# Tripod Barriers Turnstiles Sensor Gates *For public access*

*Efficient  
Reliable  
Durable*



## Entry control flexibly managed

«On busy days, our stadium is packed, with up to 45,000 fans coming to enjoy the game. The controlled entry of large numbers of people within a short period of time requires high-performance systems that efficiently control authorised access. Kaba units allow us to flexibly define the necessary entrance frequencies and security levels at each entrance.»



# Products for public systems & solutions

## *Solutions for public area entrances*

Kaba's product portfolio provides a range of specific solutions for controlled pedestrian entry to public and recreational facilities. The key requirements include speed, simple operation and efficient access control. Depending on the entrance frequency, preferred security level and local conditions, Kaba offers a variety of suitable tripod barriers, turnstiles or special units. Our PSS products are compatible with a wide range of ticket management systems, from simple barcode cards to VIP passes holding biometric data.



For barrier-free access, we recommend automatic swing doors for half-height units and swing doors with a matching design for full-height turnstiles.



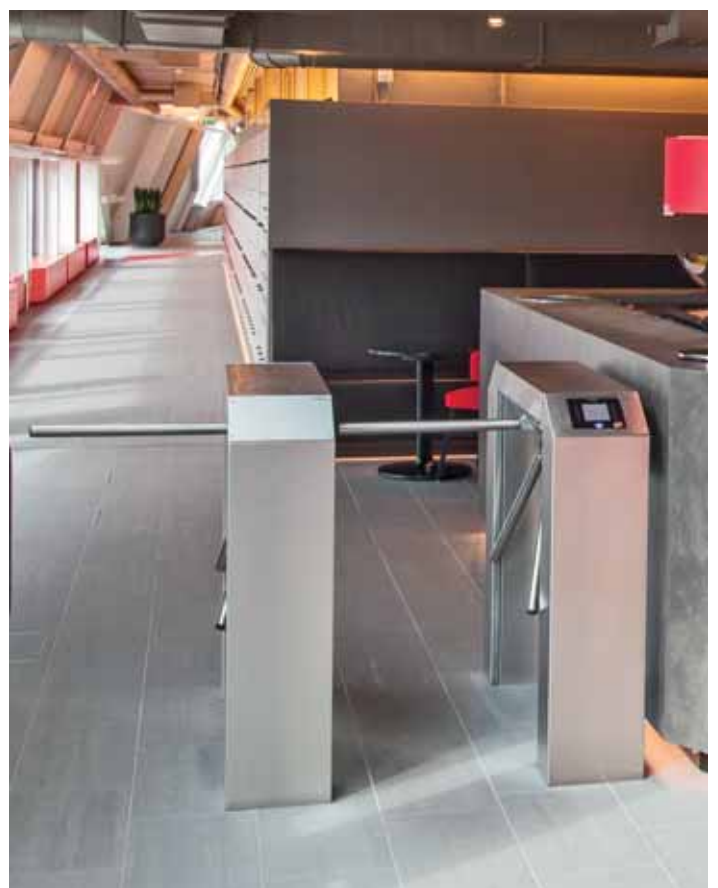
# Tripod barriers

Kaba tripod barriers are TÜV-certified for use in emergency and escape routes and can be controlled by a central building management system. They move using small dynamic forces in order to protect the user. Motorised versions offer a patented fold-down mechanism with automatic re-engaging – particularly suited to use in stadiums and large events centres with multiple units.

In hazardous or emergency situations, the top bar folds down automatically allowing unhindered passage. The mechanism re-engages automatically at the touch of a button. This means that you do not need to deploy staff to manually return the tripod barriers to their operating position once the danger has passed. Local laws must always be observed and in some cases, individual authorisation may be required.

## Benefits

- Fold-down bars and patented automatic re-engaging
- Modular individual and multiple installations
- Comfortable passage thanks to servo positioning drive
- Minimal energy consumption due to low-energy drive
- Minimal risk of injury thanks to low-energy drive
- Suitable for outdoor installation
- Suitable for installation in emergency and escape routes with additional equipment; observe local building regulations
- Barrier-free solutions in conjunction with automatic swing doors in a matching design



# Half-height turnstiles

The main characteristic of these functional turnstiles is the elegant stainless steel housing, ergonomically crafted for an optimum flow of pedestrians. The double unit comes in a space-saving design thanks to the interlocking bars. The half-height turnstiles are available in two heights – with three or four rows of bars. Their attractive design makes these units ideal for controlling access to swimming pools, spas and fitness studios.

## *Benefits*

- Attractive design for demanding entrance areas
- Produced entirely from robust stainless steel
- Space-saving double unit
- Comfortable passage thanks to servo positioning drive
- Quiet, low-noise operation
- Versions with 3 or 4 rows of bars
- Simple assembly on finished floor level



# Half-height sensor gates

The unit integrates sensor monitoring with automatic sliding door leaves which retract back into the housing with an arching motion during passage. This enables quick, comfortable and contactless passage. The doors close automatically

immediately after the user has entered, preventing unauthorised passage. The unique sensor system also ensures a high level of personal safety – pedestrians are detected accurately and protected from injury by the sliding door leaves.

## *Benefits*

- Unique protection sensor: V-shaped sensor strips for optimal personal safety and vertical light grid for single-file access
- Comfortable passage, even with bags or luggage
- No contact with the sliding wings
- High throughput rate along with high level of personal safety
- Robust stainless steel body
- Modular system with basic and extension units for multi-passage installations
- Automatic sneak-by guard (note safety level)
- Acoustic alarm when used without authorisation
- Child detection (note safety level)



# Full-height turnstiles

These units are ideal for securing facilities with particularly stringent security requirements, such as football stadiums or large events centres, as well as for perimeter protection around open-air swimming pools.

Full-height turnstiles offer an optimum level of single-file access and the required level of robustness, as the units are typically used outdoors.

Versions are available with three or four leaves in a variety of designs.

## Benefits

- Users cannot become stuck thanks to end point locking
- Versions with integrated bike interlock, swing door for barrier-free access or for transporting materials, emergency exit function or WK2 resistance class
- Space-saving double units
- Modular combination of bars, roofs, guiding elements and side elements
- Lasting quality for use in buildings or outdoors
- Turnstile column and bars made of robust stainless steel
- Rotating speed adapts to the pedestrian
- Low-energy drive
- Low power consumption
- Behaviour in the event of a power failure can be freely determined
- Can be used in regions with harsh environmental conditions
- Integrated, parameterisable random generator
- Optional secondary identification for additional security
- Spacing between shearing edges eliminates risk of injury



# Tripod barriers



## Standard units

Construction	Description
	Housing material
	Base column material
	Crossbar material
<i>Finish</i>	
<i>Function</i>	
<i>Electrical equipment</i>	
	Power supply
	Standby power consumption
<i>Installation</i>	
<i>Protection classes</i>	

## TPB-E01

Housing and base columns in a single unit (open design).

AISI 304 stainless steel with satin finish.

AISI 304 stainless steel with satin finish.

AISI 304 stainless steel.

Stainless steel satin finish.

Type 0 \*

Type 1.1 \*\*

Type 1.2 \*\*\*

Type 2 \*\*\*\*

Control system integrated in the unit.

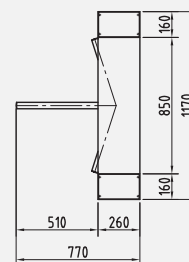
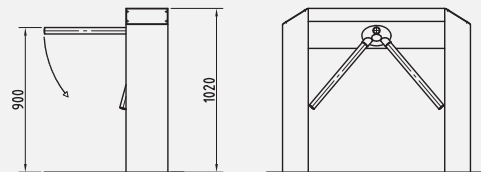
110 - 230 VAC, 50/60 Hz, 253 VA.

10 VA.

Dowelled on finished floor level, FFL.

Suitable for outdoor installation.

Housing IP33, components conducting supply voltage IP43.



- \* Type 0 Manual motion; mechanically free in one direction/ opposite direction blocked
- \*\* Type 1.1 Manual motion; electrically controlled in 1 direction/ opposite direction blocked (closed in both directions with no current)
- \*\*\* Type 1.2 Manual motion; electrically controlled in 2 directions (closed in both directions with no current)
- \*\*\*\* Type 2 Power-assisted motion; servo positioning drive/ electrically controlled in 2 directions

All dimensions in mm





**TPB-L06**

Housing and base columns in a single unit (open design).  
 Double unit based on the TPB-E01, particularly space-saving design.

AISI 304 stainless steel with satin finish.

AISI 304 stainless steel with satin finish.

AISI 304 stainless steel.

Stainless steel satin finish.

Type 0 \*

Type 1.1 \*\*

Type 1.2 \*\*\*

Type 2 \*\*\*\*

Control system integrated in the unit.

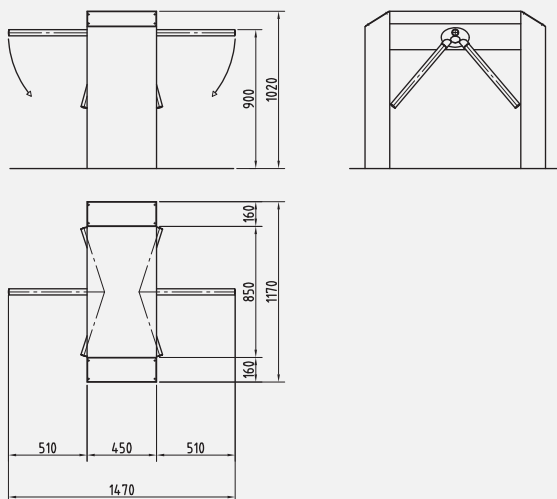
110 - 230 VAC, 50/60 Hz, 253 VA.

20 VA.

Dowelled on finished floor level, FFL.

Suitable for outdoor installation.

Housing IP33, components conducting supply voltage IP43.



**TPB-L07**

Housing and base columns in a single unit (open design).

AISI 304 stainless steel with satin finish.

AISI 304 stainless steel with satin finish.

AISI 304 stainless steel.

Stainless steel satin finish.

Type 0 \*

Type 1.1 \*\*

Type 1.2 \*\*\*

Type 2 \*\*\*\*

Control system integrated in the unit.

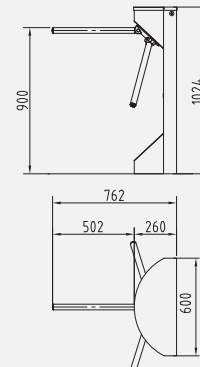
110 - 230 VAC, 50/60 Hz, 253 VA.

10 VA.

Dowelled on finished floor level, FFL.

Suitable for outdoor installation.

Housing IP33, components conducting supply voltage IP43.



# Tripod barriers



## Standard units

### Construction Description

Housing material  
Base column material  
Crossbar material

### Finish

### Function

### Electrical equipment

Power supply  
Standby power consumption

### Installation

## TPB-L04

Housing for attachment to equipment provided by the customer.

Signal device red/green display, square version flush-mounted in the housing.

Plastic.  
-  
Aluminium.  
Grey plastic RAL 7016.

Type 0 \*  
Type 1.1 \*\*  
Type 1.2 \*\*\*

Control system integrated in the unit, power supply provided by customer.

24 VDC.  
10 VA.

Clamp fixing, Ø approx. 35 mm to equipment provided by the customer.

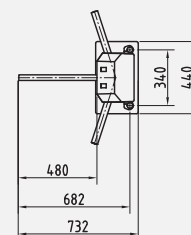
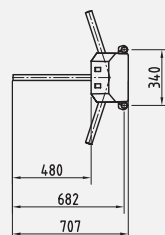
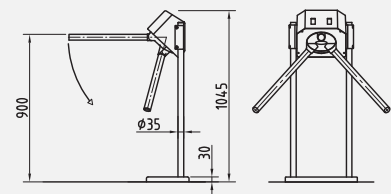
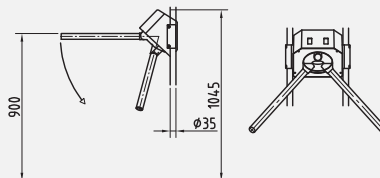
Not suitable for outdoor installation.

Housing IP33, components conducting supply voltage IP43.

## Option

TPB-L04 with → Base columns made of AISI 304 stainless steel satin finish\* option

- \* **Type 0**  
Manual motion; mechanically free in one direction/opposite direction blocked
- \*\* **Type 1.1**  
Manual motion; electrically controlled in one direction/opposite direction blocked (closed in both directions with no current)
- \*\*\* **Type 1.2**  
Manual motion; electrically controlled in both directions (closed in both directions with no current)
- \*\*\*\* **Type 2**  
Power-assisted motion; servo positioning drive/electrically controlled in both directions



All dimensions in mm

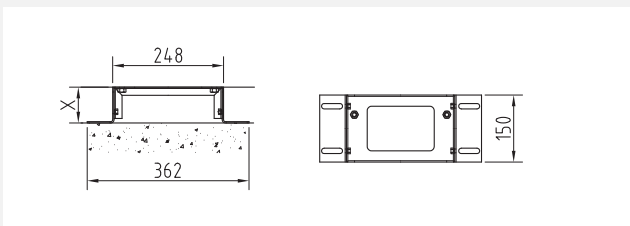
# Options (depending on unit type)

## TPB types

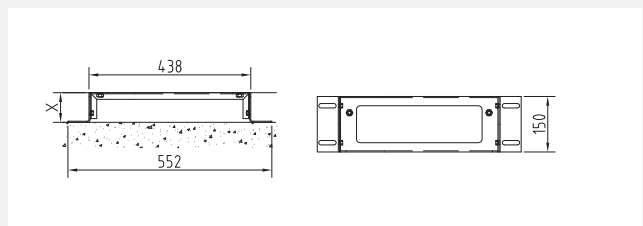
	TPB-E01	TPB-L06	TPB-L07	TPB-L04
<i>Construction</i>				
Housing in AISI 316 stainless steel.	•			
Cover plate in stainless steel.	•	•		
Base columns in stainless steel.				•
Round instead of rectangular base columns.	•			
<i>Function</i>				
Random generator.	•		•	
Counter.	•	•	•	
Emergency and escape route modules with emergency button, optional additional emergency button.	•	•	•	
Collapsible bars on unit types 1.1, 1.2 and 2. Automatic reset on type 2.	•	•	•	•
<i>Electrical equipment</i>				
Installation preparation on flat surface.	•	•		
Push button on flat surface.	•	•	•	
Operating panels and frames or surface mount housing.	•	•	•	•
Various signal devices.	•	•	•	
Star hub (connection of max. 4 OPL possible) and plug-in power supply unit for supplying external nodes.	•	•	•	
<i>Installation</i>				
Pallet with stainless steel ramp and non-slip rubber covering.	•	•	•	
With substructure X = 80 - 160 mm for sub floor level.	•	•		

## Installation variants

TPB-E01 substructure



TPB-L06 substructure



# Half-height turnstiles



## Standard units

### Construction

Description
Support frame material
Housing and limiter material
Rotating unit
Crossbars
Barrier element

## HTS-L01

Curved tubular AISI 304 stainless steel, Ø 40 mm.
Curved AISI 304 stainless steel plate, 3 mm.
90°, with tubular column, Ø 89 mm made of AISI 304 stainless steel.
Straight, 3 each made of AISI 304 stainless steel, Ø 40 mm.
Barrier element made of AISI 304 stainless steel plate with post to prevent unauthorised entry into the intermediate segment.

## HTS-L02

Double unit, particularly space-saving design.

Curved tubular AISI 304 stainless steel, Ø 40 mm.
Two housings made of 3 mm AISI 304 stainless steel plate with two vertical connecting elements made of 10 mm tempered safety glass.
Two pieces, 90°, with tubular column, Ø 89 mm made of AISI 304 stainless steel.
Straight, 3 each made of AISI 304 stainless steel, Ø 40 mm.
–

### Finish

### Function

### Electrical equipment

Power supply
Standby power consumption

Electric locking and drive integrated into the upper housing.
Stainless steel satin finish.
Type 2 ****
Control unit integrated into the housing.
110 - 230 VAC, 50/60 Hz, 253 VA.
15 VA.

Electric locking and drive integrated into the upper housings.
Stainless steel satin finish.
Type 2 ****
Control unit integrated into the housing.
110 - 230 VAC, 50/60 Hz, 253 VA.
30 VA.

Behaviour in the event of a power failure can be determined, standard setting: freely rotatable.

Behaviour in the event of a power failure can be determined, standard setting: freely rotatable.

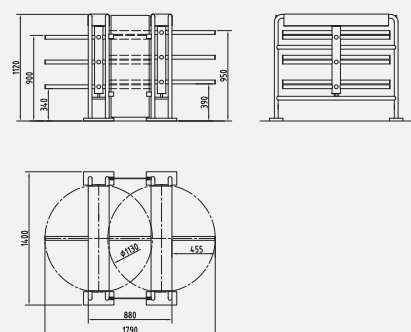
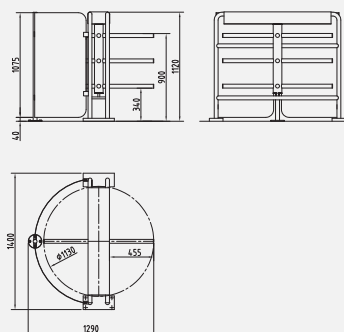
### Installation

### Protection classes

Dowelled on finished floor level, FFL.
Suitable for outdoor installation.
Housing IP43, components conducting supply voltage IP54.

Dowelled on finished floor level, FFL.
Suitable for outdoor installation.
Housing IP43, components conducting supply voltage IP54.

\*\*\*\* Type 2 Power-assisted motion; servo positioning drive/electrically controlled in 2 directions



All dimensions in mm

# Options (depending on unit type)

## HTS types

### Construction

Raising of barrier and pedestrian guiding element to 1380 mm.

### Electrical equipment

Installation preparation with assembly plate.

Consoles with adapter made of plastic or aluminium (also available in stainless steel for an additional charge).

Coins and coin validator.

Push button in stainless steel tube console for manual single release.

Operating panels with frame or surface mount housing.

Additional boards to expand the existing inputs, outputs and a star hub (connection of max. 4 OPL possible).

HTS-L01

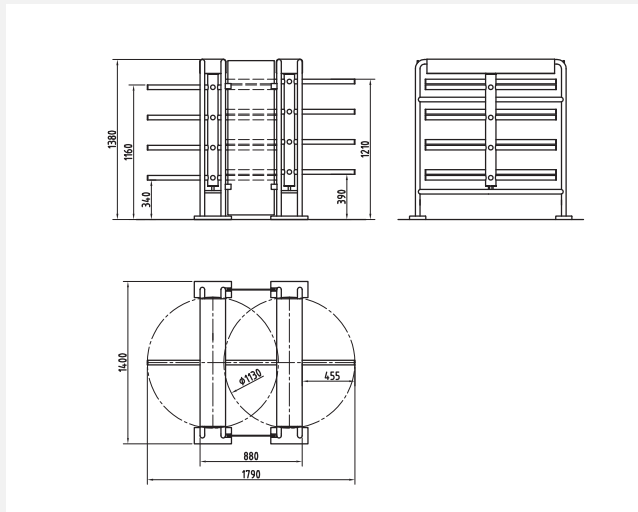
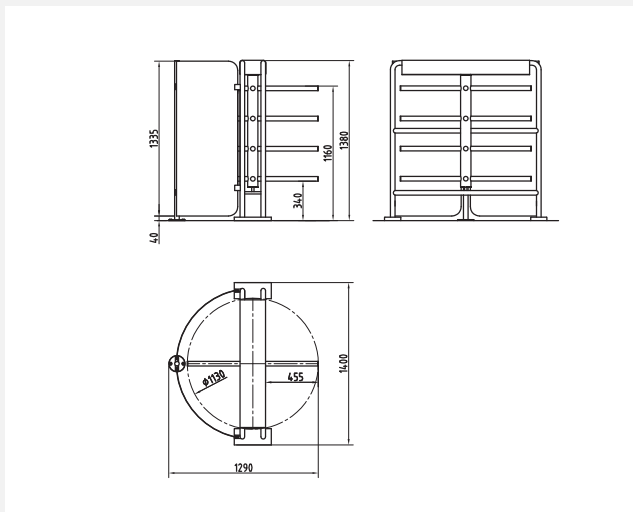
HTS-L02

•	•
•	•
•	•
•	•
•	•
•	•

## Raising of barrier and pedestrian guiding element to 1380 mm

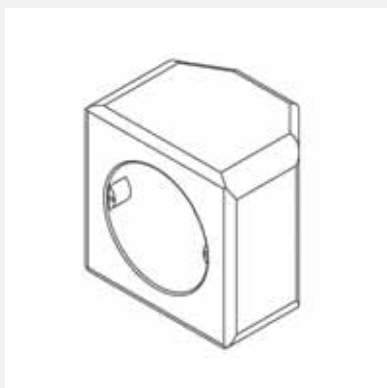
HTS-L01

HTS-L02



**Console 1** made of plastic in the same colour as the unit or in RAL 9006.

Width 94 mm  
Height 94 mm  
Depth 65 mm



All dimensions in mm

# Swing doors



## Standard units

Construction Tubular column

Barrier element

Leaf radius

Leaf upper edge

Finish

Function

Electrical equipment

Power supply

Standby power consumption

Installation

## HSD-E02

Made of AISI 304 stainless steel, Ø 140.

U-shaped, made of tubular AISI 304 stainless steel, Ø 40.

900

900

Locking, drive and toothed holding brake installed in tubular column.

Stainless steel satin finish.

Type 2\*\*\*\*

90° opening in entrance and exit directions.

Control unit and power supply unit in an external switch cabinet  
H = 283 / W = 168 / D = 115.

110 - 230 VAC, 50/60 Hz, 253 VA.

10 VA.

Dowelled on finished floor level, FFL.

Suitable for outdoor installation.

## HSD-L01

Made of AISI 304 stainless steel, Ø 60.

U-shaped, made of tubular AISI 304 stainless steel, Ø 40.

900

900

Stainless steel satin finish.

Type 0\*

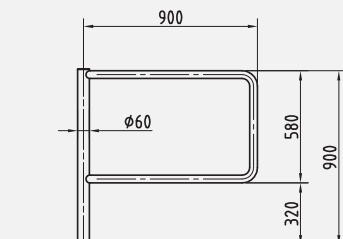
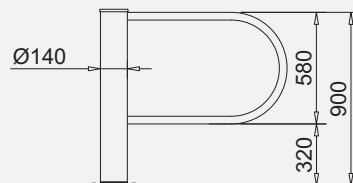
90° opening in entrance and exit directions, mechanically lockable in three positions.

-

-

Dowelled on finished floor level, FFL.

Not suitable for outdoor installation.



\* Type 0 Manual motion

\*\*\*\* Type 2 Power-assisted motion; servo positioning drive/electrically controlled in 2 directions

All dimensions in mm



**HSD-L06**

Half column (W = 130 mm/D = 90 mm) as drive housing made of AISI 304 stainless steel.

Transparent polycarbonate door leaf with horizontal aluminium hand rail painted in RAL 9006.

900  
900

Stainless steel satin finish.

Type 2\*\*\*\*

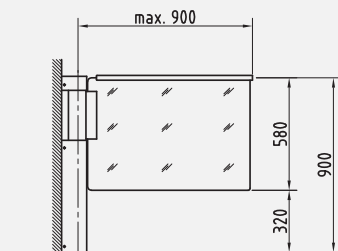
90° opening in entrance and exit directions.

Control unit and power supply unit integrated into the housing.

110 - 230 VAC, 50/60 Hz, 253 VA.  
10 VA.

Wall mounting/dowelled.

Not suitable for outdoor installation.



**HSD-L07**

Made of AISI 304 stainless steel, Ø 140.

U-shaped, made of tubular AISI 304 stainless steel, Ø 40.

960  
900

Stainless steel satin finish.

Type 0\*

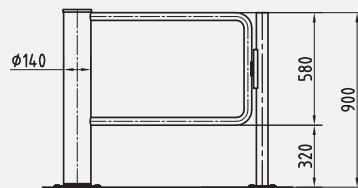
90° mechanical opening in one direction/ opposite direction blocked. Locking with electric door opener (in stainless steel post, Ø 60 mm), incl. door check and anti-lift security to prevent opening.

24 V DC power supply for electrical door opener supplied by the customer, on-site control.

-

Dowelled on finished floor level, FFL.

Not suitable for outdoor installation.



**HSD-L08**

Made of AISI 304 stainless steel, Ø 60 with emergency exit function.

Multi-layer panel with opening for children.

980  
1250

Stainless steel satin finish.

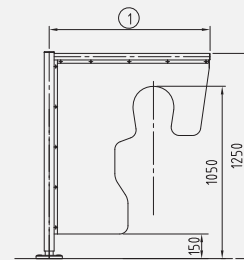
Type 0\*

Mechanically free in both directions, 90° opening in entrance and exit directions. When the swing door is opened, an acoustic signal sounds. Manual motion from the zero position with a force of 90 Nm on the front door leaf end.

-

Dowelled on finished floor level, FFL.

Not suitable for outdoor installation.



# Options (depending on unit type)

## HSD types

### Construction

Passage width 1000 mm.

Door leaf panel in TSG (sealed at the top and bottom).

Special leaf width: minimum 650 mm.

Special height: door leaf raised to max. 1200 mm.

### Function

Master slave or additional chip for linking two units as a double swing door.

Emergency and escape route module.

Additional emergency button including symbol for connection to the emergency and escape route module.

### Electrical equipment

Operating panels and frames or surface mount housing.

Star hub to connect a maximum of four OPL or I/O boards for the activation of a maximum of eight networked units.

### Installation

Mounting plate with variable substructure, measure X = 80 - 180 mm.

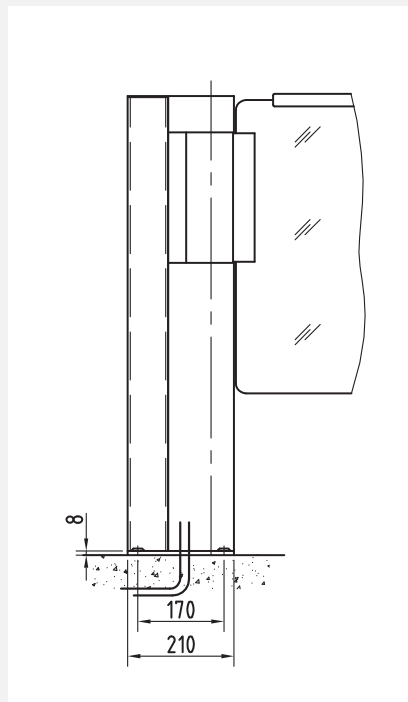
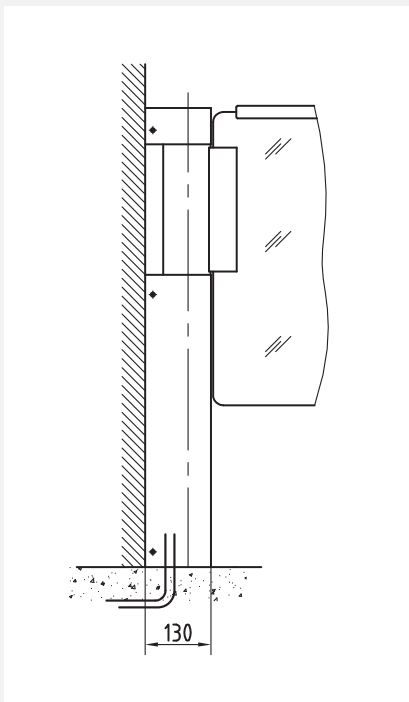
Cast-in with floor element.

	HSD-E02	HSD-L01	HSD-L06	HSD-L07	HSD-L08
Passage width 1000 mm.	•	•		•	
Door leaf panel in TSG (sealed at the top and bottom).	•	•		•	
Special leaf width: minimum 650 mm.	•	•	•	•	•
Special height: door leaf raised to max. 1200 mm.	•	•		•	
Master slave or additional chip for linking two units as a double swing door.	•		•		
Emergency and escape route module.	•		•		
Additional emergency button including symbol for connection to the emergency and escape route module.	•		•		
Operating panels and frames or surface mount housing.	•		•		
Star hub to connect a maximum of four OPL or I/O boards for the activation of a maximum of eight networked units.	•				
Mounting plate with variable substructure, measure X = 80 - 180 mm.	•	•		•	
Cast-in with floor element.	•	•		•	

## Installation variants for HSD-L06 swing door

### Wall mounting

### On finished floor level



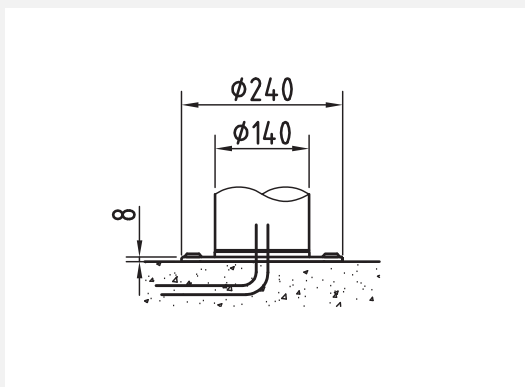
All dimensions in mm



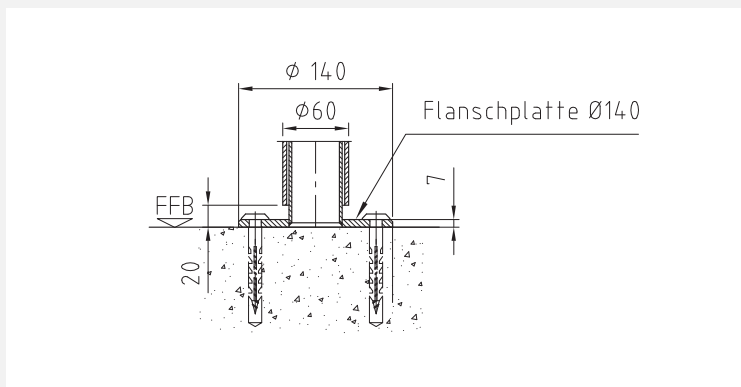
# Installation variants for swing doors

## Finished floor level

Example of HSD-L07

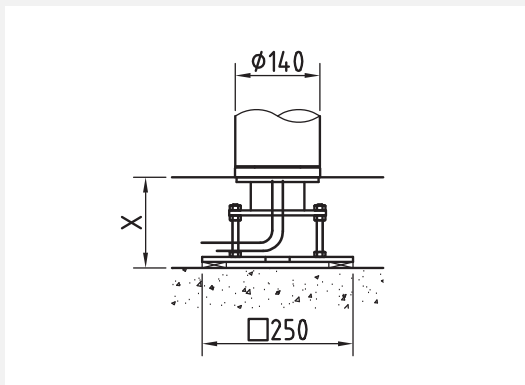


Example of HSD-L01

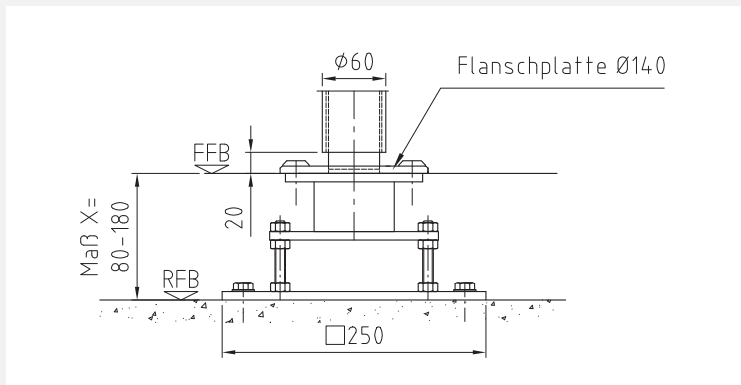


## Sub floor level

Example of HSD-L07

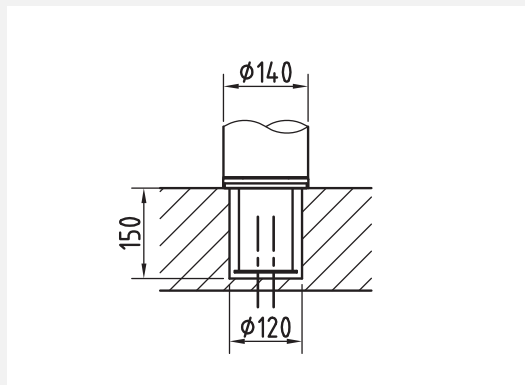


Example of HSD-L01

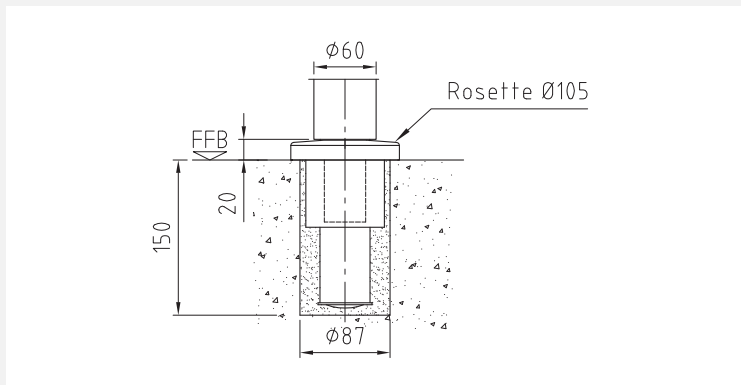


## Cast-in

Example of HSD-L07



Example of HSD-L01



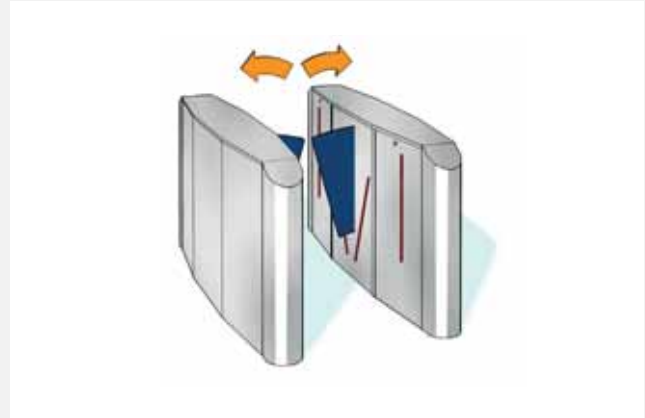
All dimensions in mm

Key

Flanschplatte  
Maß X  
Rosette

Flange plate  
Measure X  
Rosette

# Half-height sensor gates



## Standard unit

<i>Construction</i>	Passage width
	Total width
	Interlock height
	Barrier element top edge
	Interlock length
	Housing and base column material
	Barrier element material

## Finish

## Function

## Electrical equipment

	Power supply
	Standby power consumption

## Installation

## Protection class

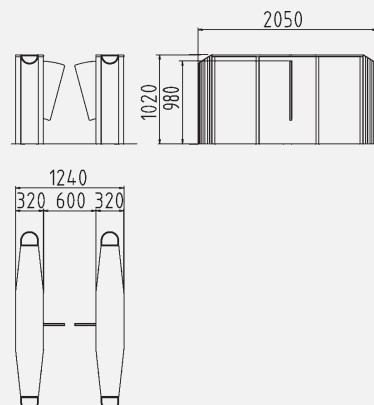
## HSG-L01

600
1240
1020
980
2050
AISI 304 stainless steel with satin finish.
Made of 22 mm polyurethane foam.
Stainless steel satin finish.
Type 2 ****
Arched, power-assisted motion of both door leaves into the housing.
Enhanced monitoring of single-file access in both directions.
Monitoring of the movement area of the barrier elements by light grids.
Default position can be open or closed.
Control system and power supply integrated in the unit.
110 - 230 VAC, 50/60 Hz, 299 VA.
20 VA.
The door leaves move into the open position in the event of a power failure.
Dowelled on finished floor level, FFL.
Not suitable for outdoor installation.
Housing IP32, components conducting supply voltage IP42.

\*\*\*\* Type 2

Power-assisted motion; servo positioning drive/electrically controlled in 2 directions

All dimensions in mm



# HSG-L01 options

## Construction

Rectangular base columns.

Passage width increased to 900 mm.

## Electrical equipment

Installation preparation on flat surface for components provided by the customer.

Plastic instead of stainless steel cover plate.

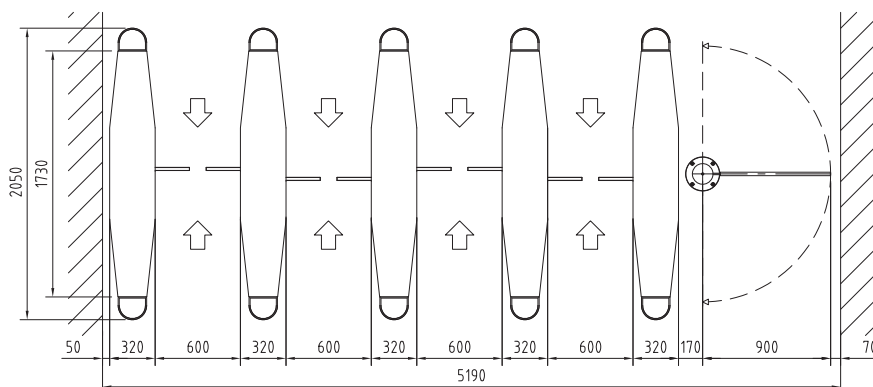
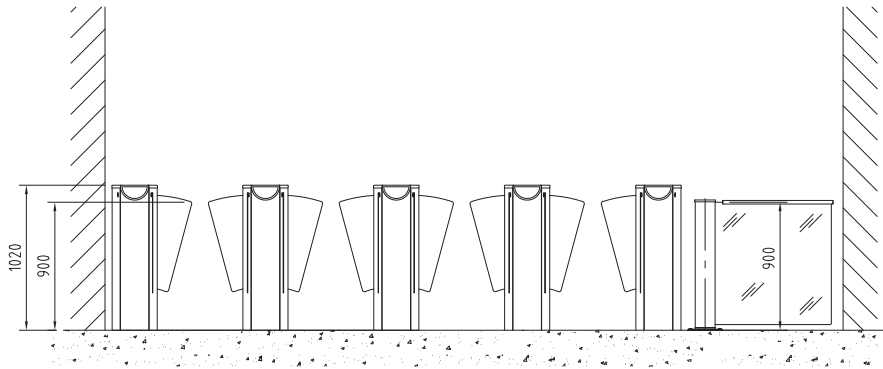
Push button on flat surface for manual single release.

Operating panels and frames or surface mount housing.

Additional circuit boards for expanding existing inputs and outputs.

Various signal devices.

## HSG-L01 installation example



# Full-height turnstiles



## Standard units

### Construction

Column diameter	
Portal width	
Total height (without opt. roof)	
Passage height	
Passage width	
Portal and housing	
Lockable maintenance opening	
Rotating unit with tubular column, Ø 89 mm	
Barrier element	
Passage limitation	
Special feature	

### Finish

### Function

### Electrical equipment

Power supply	
Standby power consumption	

### Installation

### Protection classes

## FTS-L01

1130
2050
2270
2060
490
Steel.
Aluminium.
90° each with 11 straight AISI 304 stainless steel crossbars, Ø 40 mm with black plastic cover caps.
Steel in the mid-section, encased in stainless steel, semi-gloss smooth finish on the front panels.
With steel columns.
Double unit, space-saving design with interlocking rotating units.

Rotating unit made of stainless steel, glossy finish, hot-dip galvanised steel elements, aluminium elements in RAL 9006.

Type 1.1 \*\* Type 1.1 \*\*\*  
Type 1.2 \*\*\*\* Type 2 \*\*\*\*\*

Control system integrated in the unit.

100 - 240 VAC, 50/60 Hz, 506 VA.

20 VA.

On finished floor level, FFL.

Housing IP33, components conducting supply voltage IP43.

## FTS-L05

1130
1370
2270
2060
490
Steel.
Aluminium.
90° each with 11 straight AISI 304 stainless steel crossbars, Ø 40 mm with black plastic cover caps.
Steel and encased in stainless steel on the front panels.
With steel columns.
-

Rotating unit made of stainless steel, glossy finish, hot-dip galvanised steel elements, aluminium elements in RAL 9006.

Type 1.1 \*\* Type 1.1 \*\*\*  
Type 1.2 \*\*\*\* Type 2 \*\*\*\*\*

Control system integrated in the unit.

100 - 240 VAC, 50/60 Hz, 253 VA.

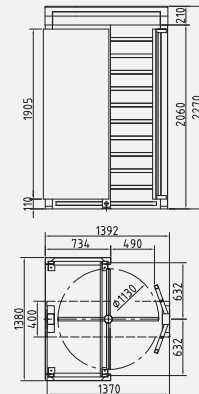
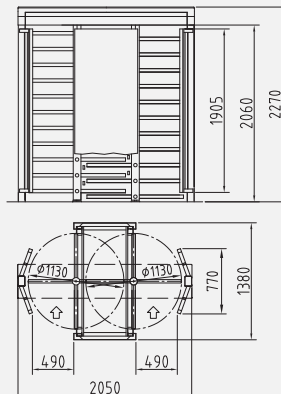
20 VA.

On finished floor level, FFL.

Housing IP33, components conducting supply voltage IP43.

\* *Type 0* Manual motion; mechanically free in one direction/opposite direction blocked  
 \*\* *Type 1.1* With power supply unit and micro switch, pawl control unit provided by the customer, optionally with relay  
 \*\*\* *Type 1.1* Manual motion; electrically controlled in 1 direction/opposite direction blocked  
 \*\*\*\* *Type 1.2* Manual motion; electrically controlled in 2 directions  
 \*\*\*\*\* *Type 2* Power-assisted motion; servo positioning drive/electrically controlled in 2 directions

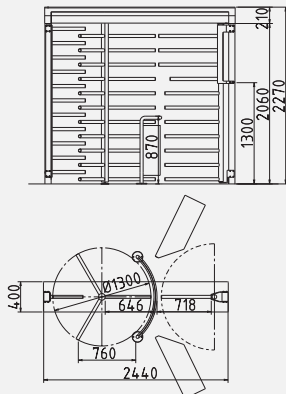
All dimensions in mm





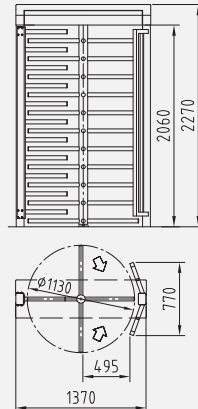
**FTS-M01**

1300
2440
2270
2060
646
Steel.
Aluminium.
120° each with 11 straight crossbars, Ø 40 mm made of glossy AISI 304 stainless steel with black plastic cover caps.
With 11 straight crossbars, Ø 42 mm made of steel.
Half-height made of curved tubular AISI 304 stainless steel with plate panels.
Automatic bicycle door with 7 straight crossbars, Ø 40 mm made of stainless steel.
Upper barrier element with 4 straight crossbars, Ø 42 mm made of steel.
Rotating unit made of stainless steel, glossy finish, hot-dip galvanised steel elements, aluminium elements in RAL 9006.
Type 2 ***** Automatic bicycle door with two induction loops and loop detector in two directions, electrically controlled.
Control system integrated in the unit.
100 - 240 VAC, 50/60 Hz, 506 VA.
20 VA.
In sleeve foundation, measure X = 150 mm.
Housing IP33, components conducting supply voltage IP43.



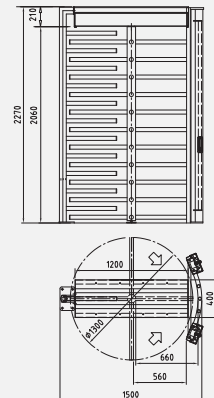
**FTS-L04**

1130
1370
2270
2060
490
Steel.
Aluminium.
90° each with 11 straight crossbars, Ø 40 mm made of glossy AISI 304 stainless steel with black plastic cover caps.
With 11 straight crossbars, Ø 42 mm made of steel.
With steel columns.
-
Rotating unit made of stainless steel, glossy finish, hot-dip galvanised steel elements, aluminium elements in RAL 9006.
Type 0 *    Type 1.1 **
Type 1.1 ***    Type 1.2 ****
Type 2 *****
Control system integrated in the unit.
100 - 240 VAC, 50/60 Hz, 253 VA.
20 VA.
In sleeve foundation, measure X = 150 mm.
Housing IP33, components conducting supply voltage IP43.



**FTS-L06**

1300
1500
2270
2060
560
Steel.
Aluminium.
90° each with 11 straight crossbars, Ø 40 mm made of hot-dip galvanised steel with black plastic cover caps.
With 11 straight crossbars, Ø 42 mm made of steel.
With steel columns.
-
Steel elements hot-dip galvanised, aluminium elements in RAL 9006.
Type 1.2 ****
In the case of a power failure, both directions are locked.
Control system integrated in the unit.
100 - 240 VAC, 50/60 Hz, 253 VA.
20 VA.
On finished floor level, FFL.
-



# Optional roofs

	FTS-L01	FTS-L05	FTS-M01	FTS-L04
<i>Roof D1</i> – depth 1500 or 2770 (height 120)				
Width				
1650		•		•
2330	•			
2720			•	
<i>Roof D2 and roof D3</i> – depth 2820 (roof edge 200)				
Width				
2900			•	

## Roofs to prevent people climbing over and for weather protection

### Roof D1

Hot-dip galvanised steel substructure, trapezoidal sheet cover in RAL 9002.

### Roof D2

Hot-dip galvanised steel substructure, trapezoidal sheet cover in RAL 9002, with silver anodised roof edge and water outlet in grey PVC.

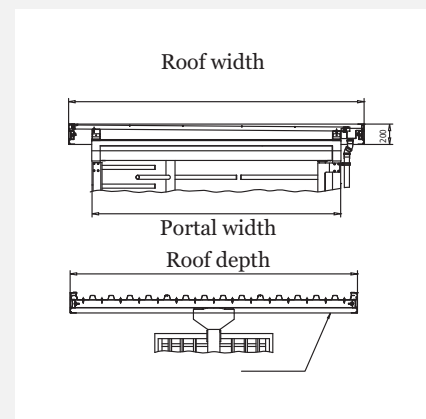
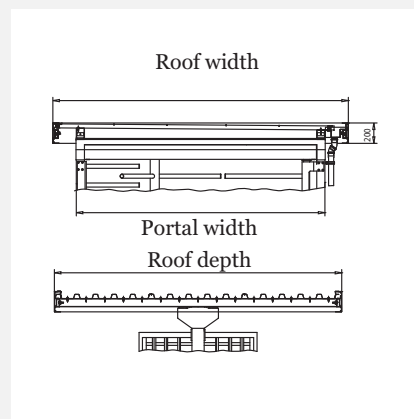
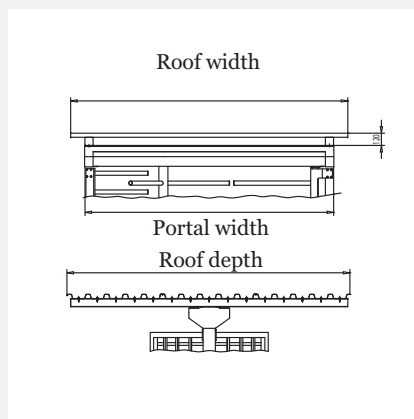
### Roof D3

Hot-dip galvanised steel substructure, trapezoidal sheet covering in RAL 9002 with silver anodised roof edge and water outlet in grey PVC, roof underside with aluminium cladding in lotus white.

*Roof D1* – with trapezoidal sheet cover

*Roof D2* – with trapezoidal sheet cover, roof edge profile and water outlet

*Roof D3* – with trapezoidal sheet cover, roof edge profile, panelling and water outlet



All dimensions in mm

# Options (depending on unit type)

## FTS types

### Construction

Rotating unit, plastic-coated according to RAL or plastic-coated according to DB in colour of unit, recommended in the case of harsh environmental conditions.

For each direction: mechanical pivoted lever unlocking with profile half cylinder, installed in maintenance opening.

### Finish

Steel and aluminium parts: additional plastic coating according to RAL.

### Function

Random generator with horn.

### Electrical equipment

Different consoles made of plastic or aluminium in the same colour as the unit or in RAL 9006 / aluminium console front panels available in plastic or stainless steel.

Relay for type 1.1.

Operating panels with frame or surface mount housing.

Additional circuit boards for expanding existing inputs and outputs on unit type 2.

Heating.

Various signal devices.

Various lighting and twilight switch options.

### Installation

Installation on finished floor level, measure X = 0.

Installation on sub floor level, measure X = 150 mm.

Installation in sleeve foundation, measure X = 150 mm.

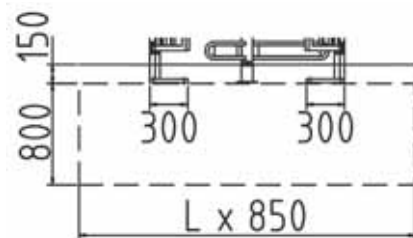
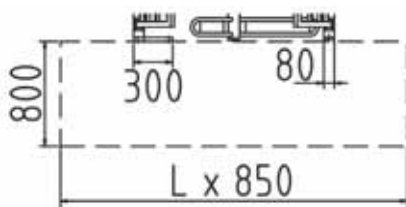
Turnstile unit can be assembled at the factory for "finished floor level" and "sub floor level" mounting.

	FTS-L01	FTS-L05	FTS-M01	FTS-L04	FTS-L06
Rotating unit, plastic-coated according to RAL or plastic-coated according to DB in colour of unit, recommended in the case of harsh environmental conditions.					•
For each direction: mechanical pivoted lever unlocking with profile half cylinder, installed in maintenance opening.	•	•	•	•	•
Steel and aluminium parts: additional plastic coating according to RAL.	•	•	•	•	•
Random generator with horn.	•	•	•	•	•
Different consoles made of plastic or aluminium in the same colour as the unit or in RAL 9006 / aluminium console front panels available in plastic or stainless steel.	•	•		•	
Relay for type 1.1.	•	•		•	
Operating panels with frame or surface mount housing.	•	•	•	•	•
Additional circuit boards for expanding existing inputs and outputs on unit type 2.	•	•	•	•	•
Heating.			•		•
Various signal devices.	•	•	•	•	•
Various lighting and twilight switch options.	•	•	•	•	•
Installation on finished floor level, measure X = 0.			•	•	
Installation on sub floor level, measure X = 150 mm.	•	•	•	•	
Installation in sleeve foundation, measure X = 150 mm.	•	•			
Turnstile unit can be assembled at the factory for "finished floor level" and "sub floor level" mounting.					•

## Installation variants

Finished floor level FFL

Sub floor level SFL



All dimensions in mm

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