Destination Selection Control (DSC)
Fact Sheet DSC

Faster to your destination with the DSC Destination Selection Control
Product benefits
Fact Sheet Destination Selection Control (DSC)

Next Level Performance
- Highly efficient passenger transportation
- Can be retrofitted for many thyssenkrupp elevator control systems

Next Level Innovation
- Collection of passengers with the same destination
- Reduction in total travel duration due to fewer stops
- Unambiguous car assignment
- No other inputs in the elevator car are required
- Short waiting periods
- Short times to destination
- Up to 30% enhancement of handling capacity
- Significant growth in productivity in office buildings during peak time
- Continuously growing range of special functions

Next Level Safety
- Integration of additional information is possible (e.g. building information)
- Optionally, function codes can be pre-switched and identification systems such as card readers can be connected
- Access codes for certain landings

Next Level Comfort
- User-friendly touchscreen for call input and display at the entrance and in the elevator car
- Easy operability

Next Level Design
- Flexible design of the display content
- Graphical representation of the assigned elevator
- Installation options of the input screen can be selected as desired

Basic concept
The thyssenkrupp DSC Destination Selection Control uses progressive destination call management to provide elevator systems with the possibility for effective transportation. This can increase the conveying capacity. In turn, this results in a remarkable time saving, simultaneously enhancing the economic efficiency of buildings.

The recommended building type for the Destination Selection Control system are office buildings, hotels as well as public buildings. The most suitable are buildings with a closed user group.

Efficiency
The Destination Selection Control is optimised for the building traffic situation in order to increase the handling capacity with high traffic volume and/or to generate as few runs as possible with low traffic volume. We thus contribute to optimising building functions and reducing the operating and energy costs.
Basic concept
Fact Sheet Destination Selection Control (DSC)

Description

Input of the destination landing
In an overall comparison with a conventional elevator control system, selecting the destination at the Destination Selection Control (DSC) involves not only entering the desired direction of travel but also of the exact destination landing of the passenger.

Assignment of the elevator car
The passenger enters their destination landing even before entering the elevator car on a control terminal. On the base of this information, the DSC can select the elevator in the group that is most suitable for each run in order to convey each passenger to their destination as quickly as possible. This avoids unnecessary jostling and uncertainties regarding the choice of elevator.

User friendliness
User-friendly touchscreens or numerical keypads are offered for call input. This enables simple operation and a high degree of acceptance among elevator users.

Growth in productivity
The deployment of the DSC control system can achieve an increase in the handling capacity of up to 30% compared to conventional group controllers. In particular, this means increased productivity in office buildings.

Possibilities for modernisation
The DSC control system is also ideally suitable - without complex modifications - for modernisation projects. A large number of Destination Selection Controls are already in use both in Germany and abroad.

Modern technology
The thyssenkrupp Destination Selection Control (DSC) is based on the latest microprocessor technology with decentralised data-processing. By means of CAN bus technology, all components are securely networked.

Versatile deployment options
The thyssenkrupp Destination Selection Control (DSC) with remote diagnosis capability can be deployed in conjunction with practically all kinds of drive: from the machine-room-less traction elevator all the way to high-performance systems.

Conventional control system:
- The user does not know how long they still have to wait
- It is unclear which elevator is to be used
- There are many intermediate stops

Destination Selection Control (DSC):
- The user is immediately assigned an elevator
- The time to destination is shortened
- The number of intermediate stops is reduced

Method used by the Destination Selection Control (DSC)
Performance-optimised transport of the passengers in the case of a group with 3 elevators
Higher performance for groups of elevators
Fact Sheet Destination Selection Control (DSC)

**Step 1: selection of the destination landing**
The passenger enters their destination at a terminal in the landing, in response to which the most favourable elevator is calculated and assigned.

**Step 2: elevator assignment**
The assigned elevator is immediately displayed to the passenger. The display helps the user to find 'their' elevator quickly. The user goes to the assigned elevator. Depending on the setting, the image only remains on the screen for a short time or for a few seconds. The call entry screen then appears again.

**Step 3: waiting**
The passenger waits in front of the elevator assigned to them.

**Step 4: run to destination landing**
No more signals for movement are entered in the elevator car. Now only the assigned destination landings and the direction of travel to the next level position indicator (recommended) are displayed. The elevator has fewer intermediate stops, enabling the passenger to reach their destination more quickly.

**Positioning of the DSC terminal**
Terminal at the entrance
Optimised conveying performance
Fact Sheet Destination Selection Control (DSC)

Operation
The advantages of the Destination Selection Control (DSC) are particularly noticeable during the peak office hours in buildings. It reduces the waiting time and time to destination of the passengers to the highest degree. Where a Destination Selection Control (DSC) is deployed, more runs at high speed can be completed, as the number of intermediate stops is reduced.

In summary, the Destination Selection Control (DSC) uses an intelligent call management system to increase the handling capacity of groups of elevators.

Planning recommendation
To optimise the selection of options, we would like to provide you with planning recommendations for some sample applications.

Regular users that do not change (office building etc.)
- Next level display in each elevator car
- Numerical keypad or touchscreen
- Direction arrows at each entrance

Semi-public area - (school, university etc.)
- Next level display in each elevator car
- Touchscreen - simpler operation
- Position indicator above / beside the main entrance (direction arrows, location, next destination landing)
- Direction arrows at each entrance

Public area - continuously changing users (hotel etc.)
- Next level display in each elevator car
- Touchscreen - simpler operation
- Position indicator above / beside the main entrance (direction arrows, location, next destination landing)
- Direction arrows at each entrance

Public area - special case: hospital
- Next level display in each elevator car
- Touchscreen (e.g. 5.7") with numerical keypad
- Position indicator above / beside the main entrance (direction arrows, location, next destination landing)
- Direction arrows at each entrance

Recommended / possible display size

<table>
<thead>
<tr>
<th>Number of landings</th>
<th>5.7&quot;</th>
<th>10.4&quot;</th>
<th>15&quot;</th>
</tr>
</thead>
<tbody>
<tr>
<td>0 – 20</td>
<td>●</td>
<td>○</td>
<td>○</td>
</tr>
<tr>
<td>20 – 40</td>
<td>–</td>
<td>●</td>
<td>○</td>
</tr>
<tr>
<td>&gt;40</td>
<td>–</td>
<td>○</td>
<td>●</td>
</tr>
</tbody>
</table>

● recommended
○ possible
- not recommended / not possible
Rugged design
Optional EN 81-70 conformity
Low-cost variant
Simple operation
Can be individually adapted

The numerical keypad is a control device used for operating the elevator system by means of buttons arranged on a panel. The request for operation and the instruction to use the elevators are made on an integral LCD display. The arrangement and design of the control elements comply with the EN 81-70 standard (suitable for the disabled).

Design
The LC display has a blue background on which the texts are shown in grey lettering. The backlit area of the display is 50 x 30 mm and the font size is 6 or 12 mm. The display is on four or two lines, depending on the font size.

Buttons
The operating element (e.g. type MT42) are square short-stroke buttons with rounded corners and a matt pearl button plate (28 x 28 mm). The designation (0, 1, ..., 9) and symbols (*, wheelchair) are stamped directly into the button plate, making them haptic (suitable for the disabled) and very rugged. For the numerical keypad, other buttons with a separate cover plate can also be used.

With the innovative solution of the numerical keypad, the traditional design has been continued and simultaneously combined with new technology. One advantage in particular is the design suitable for the disabled. The numerical keypad is a low-cost variant that convinces with its design and simple operation.

Functional description
When a user approaches the numerical keypad, he or she is greeted with the text "Enter the floor". The destination to which the user would like to travel is entered by pressing a button, or two buttons in quick succession for a two-digit landing number. Visual acknowledgement (only during operation) is provided by a surrounding red LED lighting ring and acoustically with a beep tone.

The entered landing is shown in the display positioned above the buttons. The texts are available in the languages German, English, French, Spanish and Russian. Other languages are available on request.

The landing entered is shown in the display directly after entry of the destination landing. After indication of the destination landing, the display indication changes and shows the elevator to be used.

The entered destination floor is then approached without an further operation of operating elements in the elevator car.

Intermediate stops are possible if further users have been assigned to the same elevator. A position indicator in the elevator car landing shows the landing to which the elevator is currently moving.

EN 81-70 conformity
To comply with the EN 81-70 standard, the verbal announcements at the terminal and in the elevator car as well as buttons must be selected with haptic lettering.
Numerical keypad - housing versions
Fact Sheet Destination Selection Control (DSC)

1. Surface housing
A wedge-shaped housing mounted on the masonry. Except for a hole for cable feed through, no structural opening is needed in the wall, which makes it ideal for retrofitting during modernisations.

Cover plate: Shape rectangular, approx. 195 x 325 mm, in stainless steel, grain 220, flush-fitted protective glass.

Housing: Shape rectangular, approx. (W x H x D_top x D_bottom) 195 x 314 x 30 x 115 mm, angle of inclination of cover plate approx. 15°, steel plate powder coated RAL 9006, mounting of cover plate with recessed hexagon socket bolts

2. Sub-surface housing
For installation in the masonry sealed by a cover plate fit flush to the wall.

Cover plate: Shape rectangular, approx. 195 x 325 mm, stainless steel grain 220, flush-fitted protective glass

Housing: Shape rectangular, approx. (W x H x D) 135 x 303 x 70 mm, galvanised steel plate, mounting of cover plate with recessed hexagon socket bolts
Numerical keypad - additional functions
Fact Sheet Destination Selection Control (DSC)

**Star button**
Regardless of the landing where the user is currently positioned, an elevator is assigned that travels to the main landing (in which the building exit is located) when the star button is pressed. The button is disabled in the main landing.

**Button for the disabled**
Pressing the wheelchair button activates the function for the "disabled". The function extends the door-open time in those landings where the wheelchair button was pressed as well as in the selected destination landing.

The user can now select the desired landing using the landing button. The optional verbal announcement in the terminal informs the user with the announcement "Take the elevator on the left" or "Take the elevator on the right".

On arrival of the elevator car in the landing, the verbal announcement in the car operating panel is "Door opening", in response to which the user can enter the elevator car. While the elevator is moving, the designations of the landings are output in verbal announcements. In the destination landing, the verbal announcement for the user is the landing designation and "Door opening".

When the car door closes again, the disabled function is switched off. Then, only the landing announcements are output. Optionally, the announcement texts of the disabled function can also be output permanently.

**Direct call button (optional)**
Up to three additional buttons are possible, enabling direct call requests to a landing. These buttons are required for non-numerical landing designations (e.g. B1).
An extension of the cover plate can be implemented as a modification for the wall-mounted or sub-surface versions. Customer-specific special functions are to be agreed explicitly with thyssenkrupp Aufzugswerke.

**Minus button**
It is possible to use this button to select a story located below the ground floor, for example -1.
TFT display - description
Fact Sheet Destination Selection Control (DSC)

- Simple use
- Can be individually adapted
- High-quality manufacture

The convenient use of the touchscreens as well as the clear and dynamic design comply with a standard and can be customised to customer preferences. The standard housing with the TFT display is offered in two variants: as a surface housing and as a column.

The column is approx. 1200 mm high, making it optimal for every user. Optionally many customer requirements can be realized: eg logo as screen printing, disabled button, additional cut-out and mounting for loudspeakers, etc.

The versions are available in stainless steel, grain 220, but can be painted individually in any RAL shade. The display version can also be individually adapted to the customers need. The design surfaces as well as the display sizes are available in the versions 5.7 inches, 10.4 inches and 15.0 inches.

Clearly arranged graphical interfaces ensure intuitive operation of the touchpanels. The design, user interface and construction of the terminal can be adapted individually to the peculiarities of the building and style specifications.

Numerous special applications such as identification systems or networking with entry control systems expand the DSC range of performance.
TFT display - versions
Fact Sheet Destination Selection Control (DSC)

5.7-inch TFT display
With / without touch function
Diagonal: 14.5 cm
320 x 240 pixels, 16 million colours

10.4-inch TFT display
With / without touch function
Diagonal: 26.4 cm
640 x 480 pixels, 16 million colours

15.0-inch display
With / without touch function
Diagonal: 38.1 cm
1024 x 768 pixels, 16 million colours
1. Surface housing
The housing is made of stainless steel, grain 220, but can be individually painted in any RAL shade. It is wedge-shaped and can be place on the masonry, making it ideally suitable for retrofitting in the case of modernisations.

5.7” housing:
Shape rectangular, approx. (W x H x D top x D bottom) approx. 200 x 180 x 39 x 78.5 mm, angle of inclination, cover plate approx. 14°

10.4” housing:
Shape rectangular, approx. (W x H x D top x D bottom) approx. 310 x 248 x 35 x 89 mm, angle of inclination, cover plate approx. 14°

15” housing:
Shape rectangular, approx. (W x H x D top x D bottom) approx. 380 x 330 x 25 x 97 mm, angle of inclination, cover plate approx. 14°

2. Column
The columns are very elegant in design, with bevelled user interface. The assembly is ideally done on the raw floor, also in order to be able to conceal the supply lines concealed.

Housing:
The shape is rectangular and the angle of inclination of cover plate is 60° and 35°, respectively, relative to the vertical.

This column has already been implemented for numerous projects and is designed with tested dimensions. Depending on customer requirements, the dimensions can be adapted in the individual project.
1. Standard indicator elements above the door

**LCD Blue Line**, shape: oval or angular, approx. \( W_{outer} \times W_{inner} \times H \times D \) approx. 280 x 243 x 110 x 72 mm, LCD position indicator and direction indicator. Installation in the entrance area above the landing door (including gong). Version: LCD, blue-white, blue background, white lettering. Installation in the entrance: flush-fitted protective glass. Cover plate made of stainless steel grain 220 (in accordance with EN 81-70).

**Favorit**: shape: oval or angular, approx. \( W_{outer} \times W_{inner} \times H \times D \) approx. 280 x 243 x 110 x 72 mm, LED position and direction indicator (red LED dot matrix display). Additionally a gong can be installed in the indicator box. Cover plate made of stainless steel grain 220.

2. TFT - indicator elements above the door

The housing is made of stainless steel, grain 220, but can be individually painted in any RAL shade. It is wedge-shaped and can be placed on the masonry, making it ideally suitable for retrofitting in the case of modernisations.

**5.7” housing**: Shape rectangular, approx. \( W \times H \times D_{top} \times D_{bottom} \) approx. 200 x 180 x 39 x 78.5 mm, angle of inclination, cover plate approx. 14°

**10.4” housing**: Shape rectangular, approx. \( W \times H \times D_{top} \times D_{bottom} \) approx. 310 x 248 x 35 x 89 mm, angle of inclination, cover plate approx. 14°

**15” housing**: Shape rectangular, approx. \( W \times H \times D_{top} \times D_{bottom} \) approx. 380 x 330 x 25 x 97 mm, angle of inclination, cover plate approx. 14°
You have the possibility to use TFT displays in the elevator car. However, the width and depth must be borne in mind for both the cover plate and the basic body of the car operating panel. Standard indicators are of course possible, but we recommend deployment of a TFT display with the 'Next Level' display so that the passenger is informed of the next destinations to be approached.

**TFT display, 5.7 inches**

Size of display:
W x H x D  
176 x 188 x 41.5 mm and/or
176 x 150 x 41.5 mm without tabs / clips

Width of car operating panel with horizontal installation position:
- at least 205 mm
- Connections at top

Width of car operating panel with vertical installation position:
- at least 205 mm
- Connections on the right

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**TFT display, 10.4 inches**

Size of display
W x H x D  
274 x 262 x 39.5 mm and/or
274 x 224 x 39.5 mm without tabs / clips

Width of car operating panel with horizontal installation position:
- at least 320 mm
- Connections at top

Width of car operating panel with vertical installation position:
- at least 280 mm
- Connections on the right

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**TFT display, 15 inches**

Size of display
W x H x D  
355 x 282 x 42.0 mm

Width of car operating panel with horizontal installation position:
- at least 380 mm
- Connections at top

Width of car operating panel with vertical installation position:
- at least 300 mm
- Connections on the right

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**Display texts on the TFT display**

<table>
<thead>
<tr>
<th>Standard texts</th>
<th>Display text</th>
</tr>
</thead>
<tbody>
<tr>
<td>Special travel</td>
<td>SPECIAL TRAVEL</td>
</tr>
<tr>
<td>Collective fault signal</td>
<td>ELEVATOR MALFUNCTION</td>
</tr>
<tr>
<td>Emergency power</td>
<td>EMERGENCY POWER MODE</td>
</tr>
<tr>
<td>Out of service</td>
<td>OUT OF SERVICE</td>
</tr>
<tr>
<td>Overload</td>
<td>OVERLOAD</td>
</tr>
<tr>
<td>Priority</td>
<td>PRIORITY</td>
</tr>
<tr>
<td>Fire service</td>
<td>FIRE EMERGENCY CONTROL</td>
</tr>
<tr>
<td>Occupied</td>
<td>OCCUPIED</td>
</tr>
</tbody>
</table>
TFT display - additional functions
Fact Sheet Destination Selection Control (DSC)

Temporary or permanent language change:
The texts of the terminals are in the following languages: Arabic, Chinese, German, English, French, Russian, Spanish. Other languages are available on request. Temporary or permanent language switching can be implemented.

Blind and partially blind elevator users: Destination landing input via counting function
With the counting function, a verbal announcement of the landings is issued. For as long as the disabled button is pressed, a verbal announcement counts up the landings automatically from the first landing to the last landing. The landing last announced on releasing the button is then selected.

The counting function provides more possibilities when designing the terminal, as haptic operating elements are not required and therefore the deployment of the TFT display in conjunction with the disabled function is possible.

Text announcement
An announcement device is possible in conjunction with the numerical keypad or a touchscreen housing. However, it is a technically autonomous system. Additional systems must therefore be analysed and requested separately.

Connectivity to access control systems
Access control systems are connected via a standardised, serial interface. This allows a direct dialing of the destination dial call.
In order to be able to keep the system as flexible as possible, the administration of authorisations must take place on the construction site. Only one single target stop can be deposited per admission card. In this case, the destination floor can be approached independently of the respective starting station.

Special functions
- Cleaning function
- Liftscreen
- Position indicator
- Special travel group
- Special travel single elevator
- Special function for persons with special needs
- Many other order-specific special travel options are possible

Using the elevator with a wheelchair
Various possible entries can activate the disabled function:

Destination call input via the wheelchair button
The user activates the wheelchair button and then enters the destination landing. The door opening and travel times are thus automatically adapted.

Key-operated switch
There is a key-operated switch at the input terminal. The user activates the disabled function by operating the key-operated switch. They then enter the destination landing at the input terminal, which leads to assignment of the corresponding elevator. The verbal announcement in the terminal informs the user which elevator they are to use.

Button activates the disabled function
The user activates disabled travel by means of the button. The verbal announcement automatically counts up the landings available in the button. The landing last announced on releasing the button is selected. The verbal announcement in the terminal informs the user which elevator they are to use.
**TFT display - examples of interface designs**

**Fact Sheet Destination Selection Control (DSC)**

**Description**
Various interface designs can be selected. These can be individually adapted to the building.

1. **Normal operation**
The user selects the desired destination landing, in response to which the optimal elevator is calculated and assigned.

2. **Assignment screen**
The assigned elevator is displayed.

3. **Position indicator in the elevator car (optional)**
The next destinations to be approached by the elevator are shown on the position indicator.

**Design Classical:**

- **Information**
- **Special function**

**Design Elegant:**

- **Information**
- **Special function**

**Design Modern:**

- **Information**
- **Special function**

**Please take lift 3**

**Please select your destination floor**

**Special function**

**Do not use the elevator in the case of fire!**
TFT display - examples of interface designs
Fact Sheet Destination Selection Control (DSC)

Individual interface designs
thyssenkrupp implements your individual customer wishes!
DSC booster
Fact Sheet Destination Selection Control (DSC)

- Connection of DSC functions and conventional control system
- Optimisation of the up peak
- Architectural freedom
- Simple operation

TCM with DSC booster is the combination of conventional control systems with the functions of a Destination Selection Control (DSC) (in the main landing). A complete overview of the entire traffic situation enables each individual control system to optimise handling of the incoming calls and commands. This progressive call management system results in the most effective transport control for a conventional TCM group controller.

The improved performance results in a significant time gain for the passenger. Innovative technology in the call input system significantly enhances the entrance area of the elevator systems. The possibility for installation in any housing provides the maximum architectural freedom – functionally simple, sophisticatedly elegant or adapted to the fittings and furnishings of the foyer. Simple operation with graphical user guidance leads to rapid assignment of an elevator and thus the greatest possible acceptance among users.

Operation
In the main landing, the desired destination landing is entered at the destination selection terminal and the elevator to be used is assigned immediately. On the other floors, operation is conventional. The elevator is called (direction-sensitive) using the call button at the entrance and the destination landing is entered at the car operation panel in the elevator car.

Structure
The DSC booster is integrated in the TCM group controller. A number of destination selection terminals are placed in the main landing and in other important landings. There are conventional operating elements on the remaining floors. The usual operating panel is installed in the elevator cars, but this has no function in the booster landing. The direct assignment of the corresponding elevator by the of the DSC booster after call input in the main landing exploits the advantages of the Destination Selection Control (grouping) in the main landing. This in turn means that a much greater number of persons compared to a conventional group of elevators is distributed from the main landing in the building.

Option
Blocking car call input until the first landing requested by an external call is reached.
Overview of the options
Fact Sheet Destination Selection Control (DSC)

<table>
<thead>
<tr>
<th>COMPONENTS</th>
<th>NUMERICAL</th>
<th>TOUCH IN 1 OR MORE LANDINGS</th>
<th>TOUCH IN ALL LANDINGS</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Control elements</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>In the elevator car</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mechanical button for each landing</td>
<td>0</td>
<td>1</td>
<td>0</td>
</tr>
<tr>
<td>Touchscreen (Car Operation Panel) 5.7&quot;, 10.4&quot;, 15&quot;</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>at entrance</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5.7&quot;, 10.4&quot;, 15&quot; touchscreen</td>
<td>0</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>Numerical keypad</td>
<td>1</td>
<td>–</td>
<td>0</td>
</tr>
<tr>
<td><strong>Display elements</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>In the elevator car (Next Level)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5.7&quot;, 10.4&quot;, 15&quot; with car call acknowledgement indicator</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>At the entrance (standard indicators)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Blue Line, red dot matrix</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>At the entrance (TFT displays)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5.7&quot;, 10.4&quot;, 15&quot; with car call acknowledgement indicator</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td><strong>Housing</strong></td>
<td></td>
<td></td>
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<tr>
<td>Wall-mounted</td>
<td>1</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>Sub-surface</td>
<td>0</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>Column</td>
<td>–</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td><strong>Interface designs</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Standard</td>
<td>1</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>Customer-specific</td>
<td>–</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td><strong>Standard functions</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Simple special travel *</td>
<td>0</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>Cleaning function**</td>
<td>0</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>Automatic calling via code card ***</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>One entrance side or offset / dual entrance on same landing</td>
<td>0</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td><strong>Additional functions</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Selective front and rear entrances</td>
<td>–</td>
<td>1</td>
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</tr>
<tr>
<td>Dynamic Group Controller (DGC)</td>
<td>1</td>
<td>–</td>
<td>1</td>
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<tr>
<td>Zoning: division of the building into zones (only available for TWIN®)</td>
<td>0</td>
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<td>0</td>
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<tr>
<td><strong>Entry control</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>For a user group by means of a voltage free contact at the terminal</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>For a number of user groups (≤ 16 landings), by means of voltage free contacts at the terminal, shaft or machine room</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>For a number of user groups (&gt; 16 landings), by means of serial interface in the elevator control system</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td><strong>Energy saving function</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Reduction of the active shafts in low-traffic periods</td>
<td>0</td>
<td>–</td>
<td>0</td>
</tr>
<tr>
<td>Dimming / darkening after an adjustable time</td>
<td>–</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td><strong>Suitable for the disabled</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Based on DIN 81-70 (wheelchair button on touchscreen)</td>
<td>–</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>Compliance with DIN 81-70 (haptic buttons, verbal announcement inside / outside)</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

* Special travel:
1. On the default screen, the SF button is pressed
2. Code for special function is entered on the numerical keypad
3. Open special travel screen
4. Call request
5. Call is assigned to a shaft or ‘landing blocked’ appears.
6. Existing destination selection calls are carried out, then the elevator car is made available for the special travel
7. Special travel is executed

** Cleaning function:
1. On the default screen, the SF button is pressed
2. Code for special function is entered on the numerical keypad
3. Open cleaning function screen
4. Selection of the elevator car
5. Elevator car comes to the landing in which the code was entered, is taken out of the group and opens the door
6. Open / close button remains active (inner door cleaning)
7. After cleaning, the function must be switched off again at the terminal

*** Code card:
1. A serial interface is required
2. A single destination floor can be deposited for each entitlement card
3. The destination floor can be approached independently of the starting station
International references
Fact Sheet Destination Selection Control (DSC)

Other references
- Qipco Office Tower (Tornado Tower), Qatar
- Raine Square, Perth, Australia
- Rabobank, Utrecht, The Netherlands
- Palais Quartier (MyZeil), Frankfurt, Germany
- European Central Bank, Frankfurt, Germany
- Federation Tower, Moscow, Russia
- Mercury Tower, Moscow, Russia
- Maintriangel, Frankfurt, Germany
- Dalian Bayshore Hotel, China
- Altra Sede, Milan, Italy
- Ropemaker Place, London, United Kingdom
- New Stock Exchange, Frankfurt, Germany
- Skyline Tower, Munich, Germany
- London Wall 125, London, United Kingdom
- CMA Tower Riad, Saudi Arabia
- Dong Won, Korea
- Castellana, Spain
- Beijing Olympic Tower, China
- Lot 2, 3, 11, Russia
- Litex Tower Sofia, Bulgaria

- BMW High-rise, Munich, Germany
- St. Botolphs House London, United Kingdom
- Litex Tower Sofia, Bulgaria
- thyssenkrupp Headquarters, Essen, Germany
- University of Stuttgart, Germany
- London Wall 125, London, United Kingdom