Dedicated to People Flow™

THE DESTINATION CONTROL SYSTEM FOR OPTIMIZED PEOPLE FLOW

KONE Polaris™

KONE Polaris™ – an effortless elevator experience

Imagine smart, easy-to-use-elevators in better organized lobbies. Imagine orderly boarding, uncrowded cars, shorter travel times and fewer unnecessary stops. KONE Polaris makes all of this a reality. Simply select a destination floor and enjoy the perfect elevator experience.

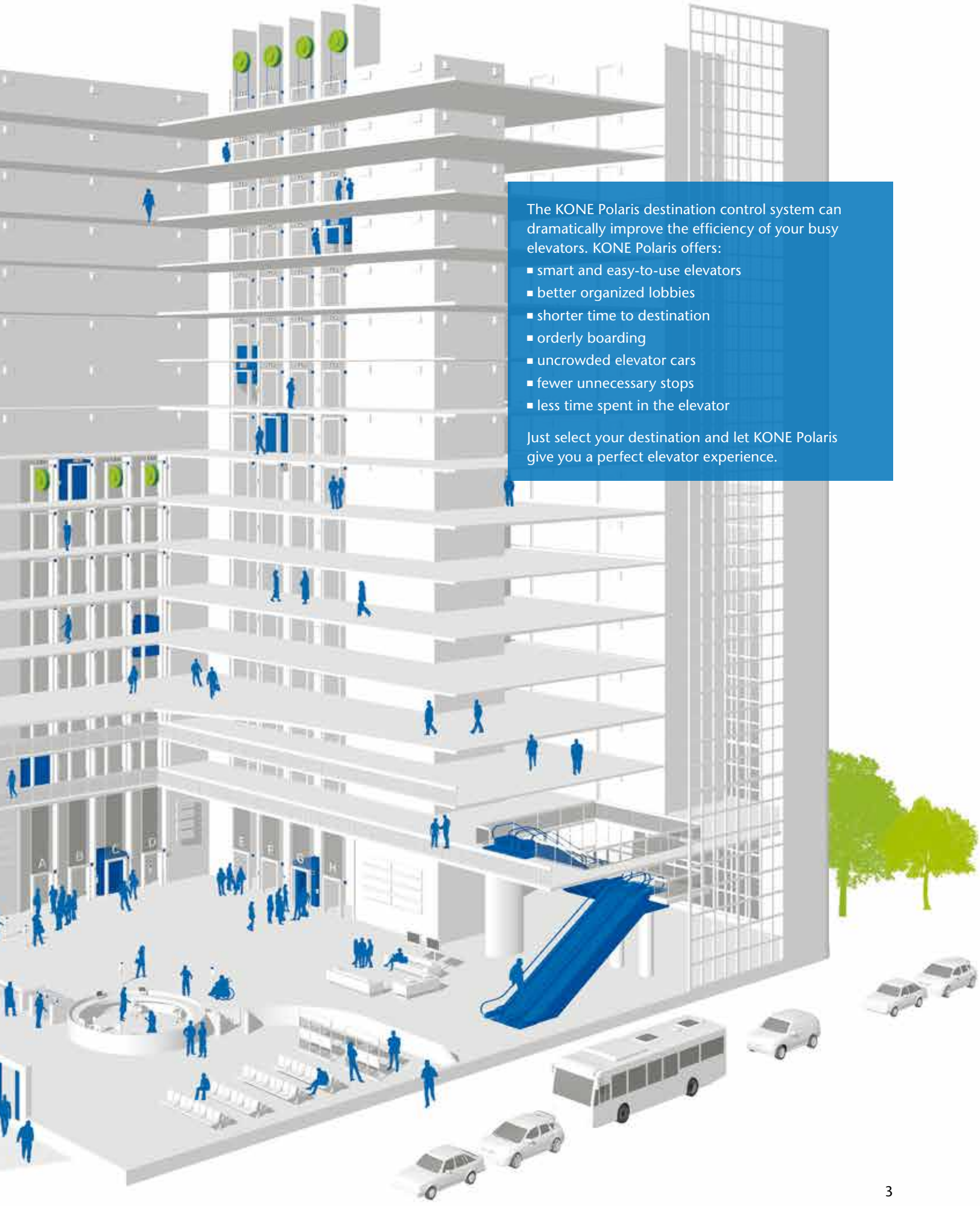
Unlike conventional elevator control systems, which only register the desired travel direction, the KONE Polaris destination control system (DCS) incorporates desired destination floors and the number of waiting passengers to significantly improve elevator convenience and efficiency.

The significantly improved system performance is most evident during intense traffic periods and rush hours, when traditional control systems struggle to cope with the high volume of traffic.

Efficiency, comfort and security

KONE Polaris brings benefits for all building stakeholders in all types of buildings, from large office buildings to hotels and residential complexes:

- Increased efficiency for building owners
- Increased comfort and reduced journey times for passengers
- Increased security and peace of mind for residents



The KONE Polaris destination control system can dramatically improve the efficiency of your busy elevators. KONE Polaris offers:

- smart and easy-to-use elevators
- better organized lobbies
- shorter time to destination
- orderly boarding
- uncrowded elevator cars
- fewer unnecessary stops
- less time spent in the elevator

Just select your destination and let KONE Polaris give you a perfect elevator experience.

Benefits for passengers throughout their journey

Increased handling capacity
The handling capacity of the elevator group is improved, especially during peak traffic periods such as the morning up-peaks common in office buildings.

Less waiting, fewer intermediate stops
KONE Polaris™ uses the information on the number of travelers and their destination floors to group together passengers with the same destination, leading to shorter transit times and fewer intermediate stops.

Improved comfort
Because passengers choose their destination floor before entering the elevator, they don't need to struggle through a crowd to press a button inside the elevator car. And because the system knows the journey time from the operating panel to the car, passengers can take their time walking to their assigned elevator.

Enhanced security
KONE Polaris enables the elevator system to be integrated with the building's access control system. Occupants can use access cards and PIN codes, restricting unauthorized use of elevators significantly and adding to the security of the entire building.

Easier accessibility
For people who need more time and space, an accessibility function can be activated with a card reader or a special button. This gives passengers more time to reach the car, longer door dwell times and, because fewer people will be assigned to that car, more space as well.

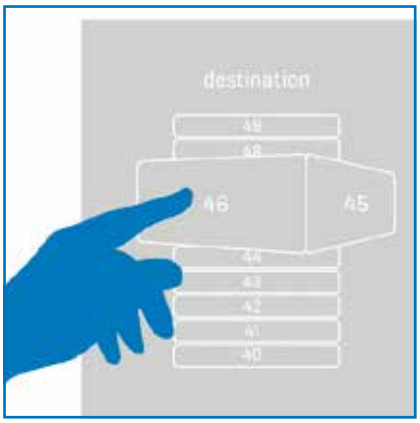
Greater personalization
KONE Polaris can be personalized to further increase passenger comfort. User-specific door times, automatic call allocation to passengers' home floors and audible passenger guidance all help make the KONE Polaris experience a uniquely personal one.

Additional guidelines
The optional elevator destination indicator shows the selected destination floors. Only destinations from a passenger's departure floor are shown, enabling them to quickly recheck that they are entering the right car.

More space
Because KONE Polaris assigns the correct number of passengers to each elevator and each car only serves a specific range of floors, cars are much less likely to become crowded.

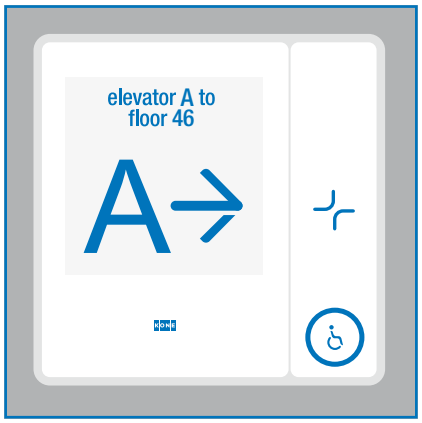
All it takes is three simple steps

1 Select
your destination floor



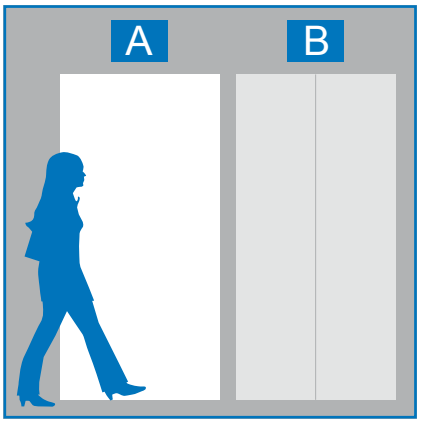
The display will tell you which elevator has been assigned to you.

2 Move
to your elevator



Approach the designated elevator.

3 Enjoy
the journey



Travel to your destination quickly and comfortably.

Modernize your building for better performance

KONE Modernization Interface

Building upgrade

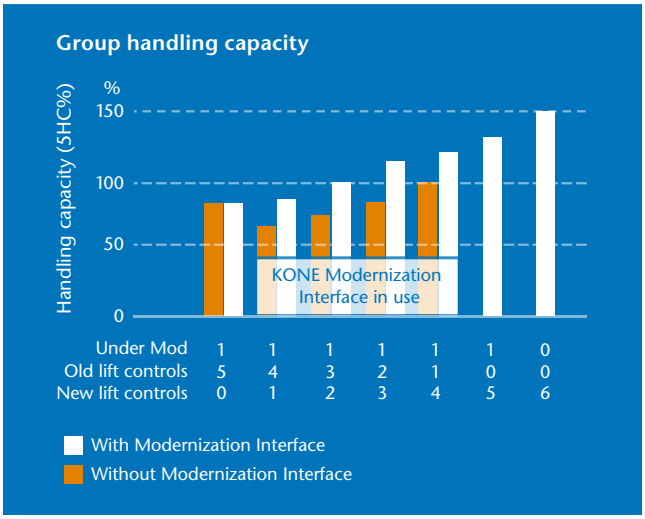
For every phase of your building's life cycle – whether experiencing competition from newer neighbors, facing major changes in usage or service requirements, or an increase in tenants – KONE is committed to supporting your business.

With KONE Polaris™ you can bring your elevator performance up to the highest level – and, thanks to our smooth staged installation process, with minimal disturbance and building downtime.

During elevator modernization, you might expect people flow capacity to decrease when elevators are out of service or there are both old and new elevator groups operating in the same lobby area. With the **KONE Modernization Interface,** you can eliminate capacity decrease during modernization and even increase people flow capacity during the project.

How it works

The KONE Modernization Interface is a **temporary high-level group control** for use during modernization. It is compatible with both old and new elevator systems and its basic function is to allocate landing calls between the new, modernized elevators and the old elevator system. The interface gives **priority to the new elevators,** maximizing the use of elevators with the highest people flow capacity and lowest energy consumption. Passengers use common destination operating panels (DOPs) for calling both old and new elevators.



Examples of group handling capacity with and without Modernization Interface in a DCS modernization

The modernization process

The first step is to convert the existing elevator group to a destination control system to increase its handling capacity. This is done before any elevator modernization and consists of installing a new group controller, new call interfaces and signalization devices. Most of the work can be done in the background to minimize the disturbance to users. This time can also be used to inform elevator users of the coming changes.

Depending on the installation, individual elevators may be out of service for only a few hours when connecting them to the KONE Modernization Interface. The interface uses the final modernized elevator components, such as the KONE group controller, UPS and communication network, which keep costs low.

Key benefits

Improved traffic capacity

- Increases handling capacity during modernization with benefits of destination control system
- Improves call allocation between old and new elevator groups

Minimized disturbance

- KONE Modernization Interface is modular, resulting in short installation times
- Minimized out-of-service time when setting up interface system

Usability

- Consistent user interface at landing
- Common landing stations for old and new elevators
- Smooth transition from conventional control to destination control

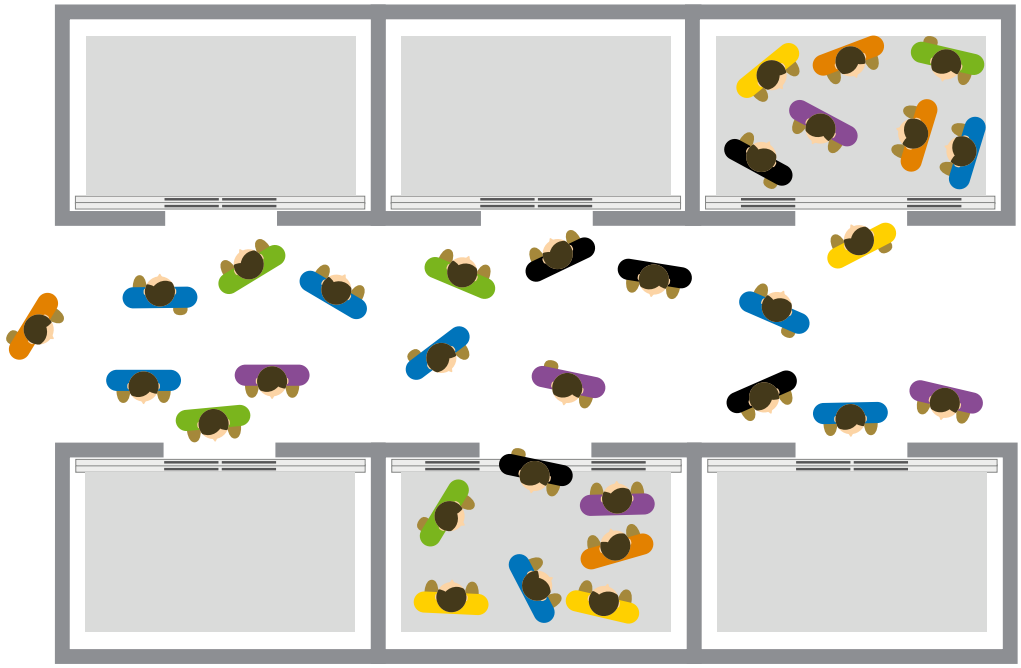
Eco-efficiency

- Energy consumption decreases step by step during modernization
- Calls allocated mainly to new, more energy-efficient elevators

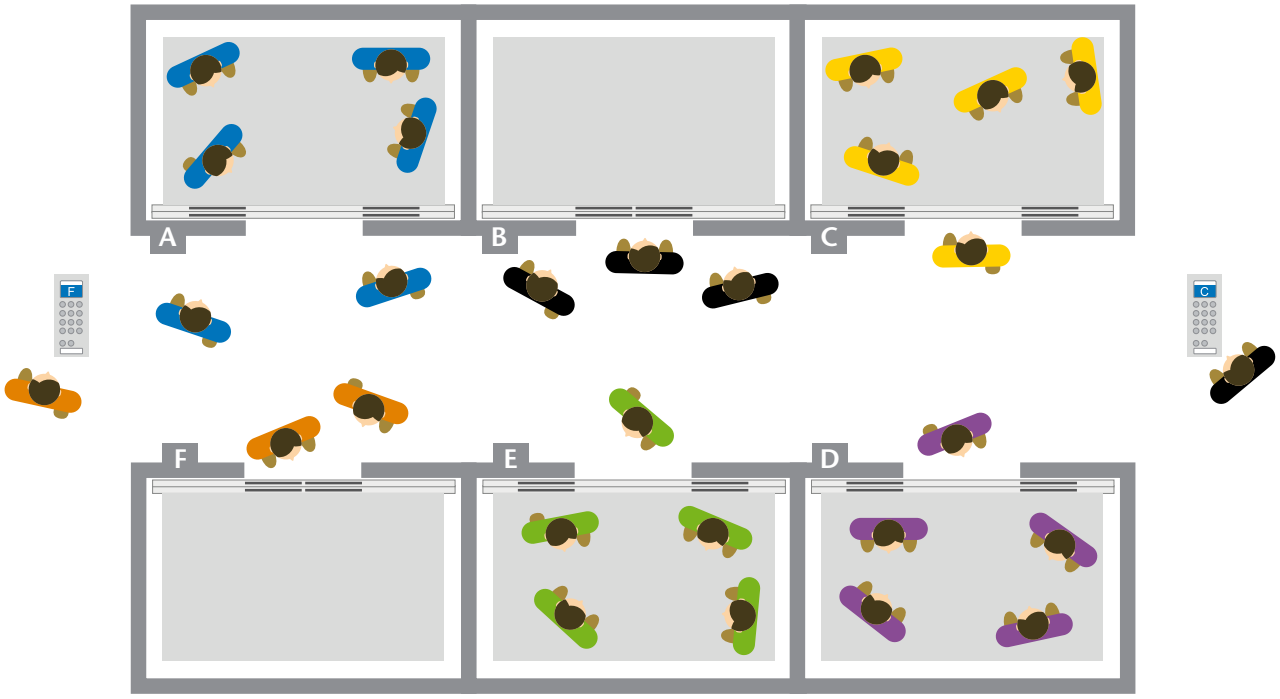
Compatibility

- Can interface with most types of existing elevator controls
- Compatible with destination control systems (DCS) and full collective systems
- For different group sizes (three or more elevators)
- Compatible with machine room and machine room-less elevators

Simply a better way to travel



With conventional collective control systems, passengers wait in a crowd then rush into the first car that arrives. They also crowd around the car operating panel to select their destination floor. Those traveling to upper floors suffer from many intermediate stops.



With KONE Polaris, passengers select their destination and are guided directly to the designated car. A limited number of other passengers within a specific range of floors are assigned to the same car. Boarding is calm, orderly and the traveling time to a destination is minimized.

Innovative technology, attractive designs

KONE Polaris™ combines innovative technology with attractive signalization alternatives. This combination increases comfort and security, while enhancing architectural freedom and the visual appearance of your building's lobby.

Traditional Car Operating Panel (COP)

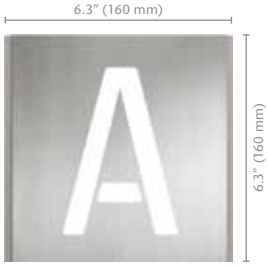
Hybrid Car Operating Panel (COP)

Hall Lantern

Hall Display

Hall Station

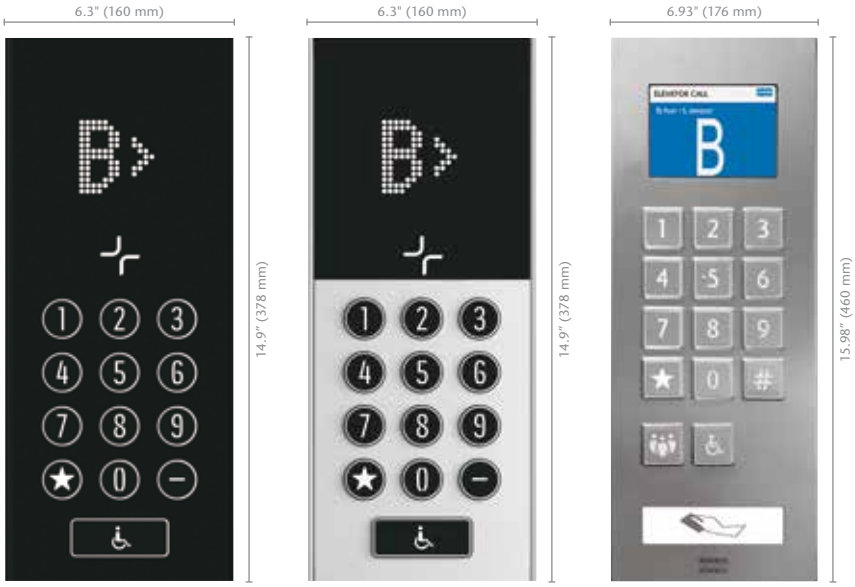
Elevator Identifier



Destination Operating Panel (DOP)

Touchscreen Destination Operating Panel – Four (4) Standard User Interfaces Available

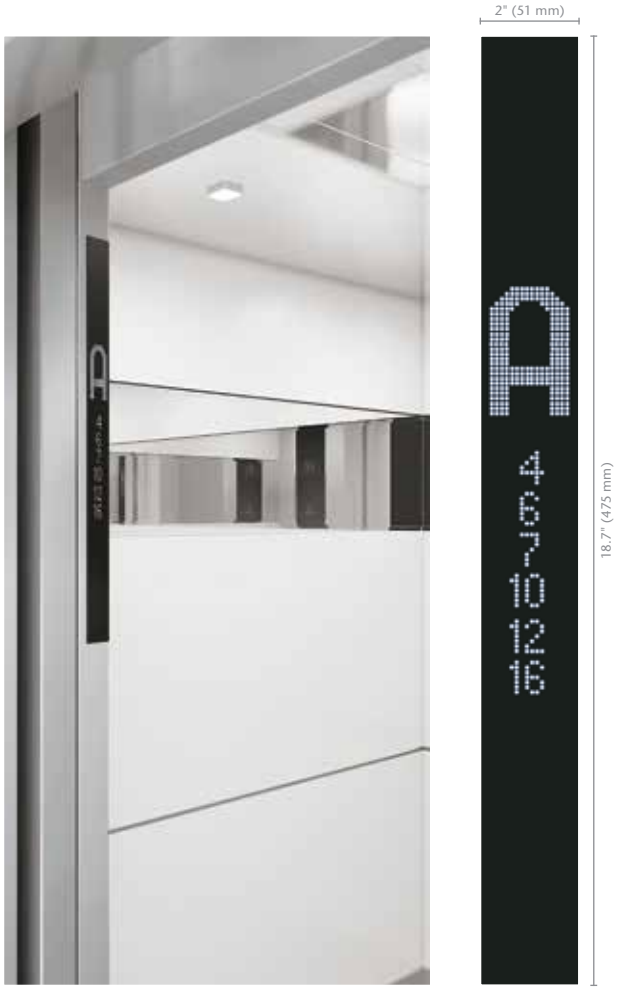
In California, the design may differ from what is shown. Please consult your KONE Sales Professional for details.



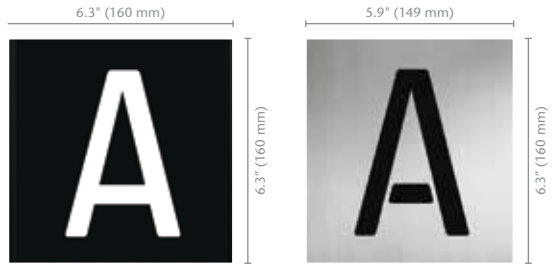
Keypad Destination Operating Panels

Destination Indicator

Active Jamb-mounted Destination Indicator



Elevator Identifier



Active Elevator Identifier

Passive Elevator Identifier

Face Plate Material: Black or brushed stainless steel

Configured to meet your needs

KONE Polaris™ is available in two configurations, making it easier to tailor the system to the individual needs of the building.

KONE Polaris Hybrid

With the KONE Polaris Hybrid configuration, the destination operating panels (DOPs) are located only on the main floors, while other floors have conventional landing signalization. Cars have a conventional car operating panel.

This configuration is particularly beneficial for improving traffic flow from heavily used floors like the main entrance floor. It is very useful in buildings with heavy up-peaks and buildings with large mid-building restaurants.

For modernization projects, this configuration is a highly cost-effective way to improve traffic flow in buildings with up-peak deficiencies.

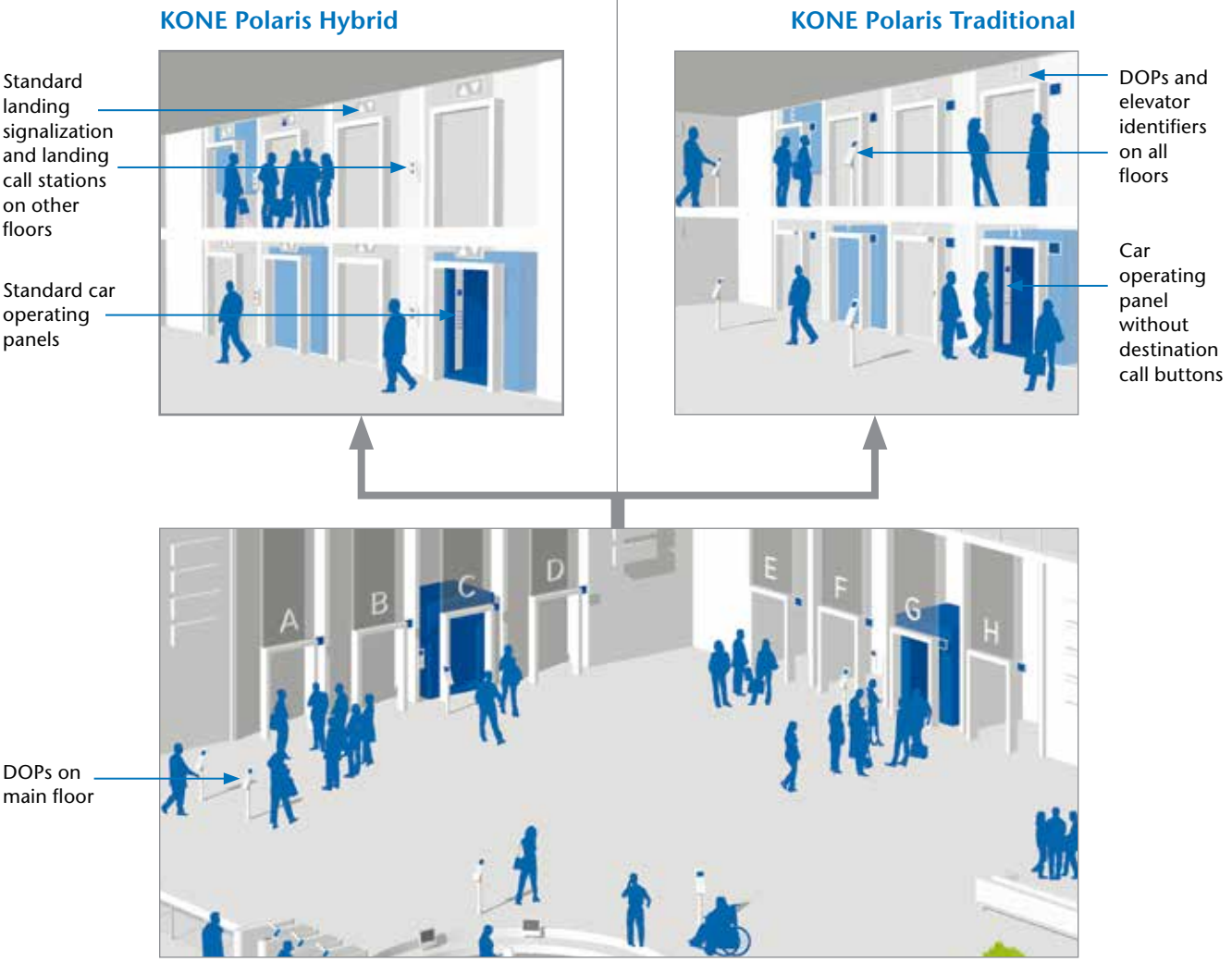
KONE Polaris Traditional

With the KONE Polaris Traditional configuration, the DOPs are on all floors and consequently there are no destination buttons on the car operating panel.

Because this configuration receives complete passenger origin and destination information from all floors, it is able to provide the best service for all traffic conditions – the up-peak, the lunchtime rush and the down-peak, as well as quieter periods.

This system is recommended for more complex buildings, for example:

- where not all elevators serve the same floors
- with complex lobby arrangements (more than 5 elevators in a row, circular or L-shaped lobbies)
- with high traffic peaks.



A wide range of features and devices

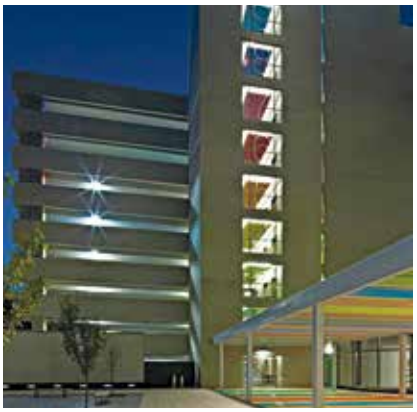
Control Hardware[1]	EGC[2]	KGC[3]
Configuration	Hybrid/Traditional	Hybrid/Traditional
Max. Group Size	4	8
Max. Landings	16	126
Signalization	KSS – Options	KSS – Full Range
Software functions[1]		
Single and double-deck elevators	■	●
Ghost passenger detection	■	●
Artificial intelligence	■	●
Standard traffic algorithm	●	●
Advanced traffic algorithm	■	●
Automatic zone call transfer	■	○
Group call	■	○
Audible and visual guidance	●	●
Accessibility features	●	●
Destination operating panel locking	●	●
Security integration[4]	■	○
PIN code	■	○
KONE RemoteCall	■	○
KONE InfoScreen	■	○

● Standard ○ Option ■ Not available

Devices	Hybrid	Traditional
Destination operating panel		
Keypad	●	●
Touchscreen display	○	○
Turnstile integration	○	○
Car operating panel (COP)		
Conventional COP	●	■
DCS COP[5]	■	●
Destination indicator (DIN)		
On landing wall	○	○
In car jamb(s)	■	○
Other devices		
Hall lantern indicator/Hall lantern	●[6]	■
Landing call station	●[6]	■
Elevator identifier	●	●

1) Check availability with your KONE Sales Professional
2) Embedded group control
3) KONE group control
4) Third-party building access control integration
5) Destination control system car operating panel includes the position indicator, next-stop indicator and hidden keypad for service purposes
6) On landings that have no destination operating panel

References



Centene Plaza, Clayton, MO

- Building type: Office
- Number of floors (max): 20
- Elevators: 13
- Special solutions: KONE Polaris Traditional DCS
- Construction completed: 2010

DaVita World HQ, Denver, CO

- Building type: Office
- Elevators: EcoSystem MR™
- Special solutions: KONE Polaris Traditional DCS
- Construction completed: 2012

Manhattan Mall, New York, NY

- Number of floors (max): 11
- Elevators: 6 passenger
- Special solutions: KONE Polaris Traditional DCS
- Completed: Spring 2013

KONE

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