

Dedicated to People Flow™



THE DESTINATION CONTROL SYSTEM

KONE Polaris™



Increased capacity, shorter journey times

KONE Polaris uses artificial intelligence to learn and forecast a building's traffic flows. When traffic intensity changes, the control system assesses the changing traffic patterns and alters its optimization routines accordingly. During lighter traffic periods, passenger waiting times or elevator energy consumption can be optimized, while during heavy traffic periods the elevator handling capacity is increased.

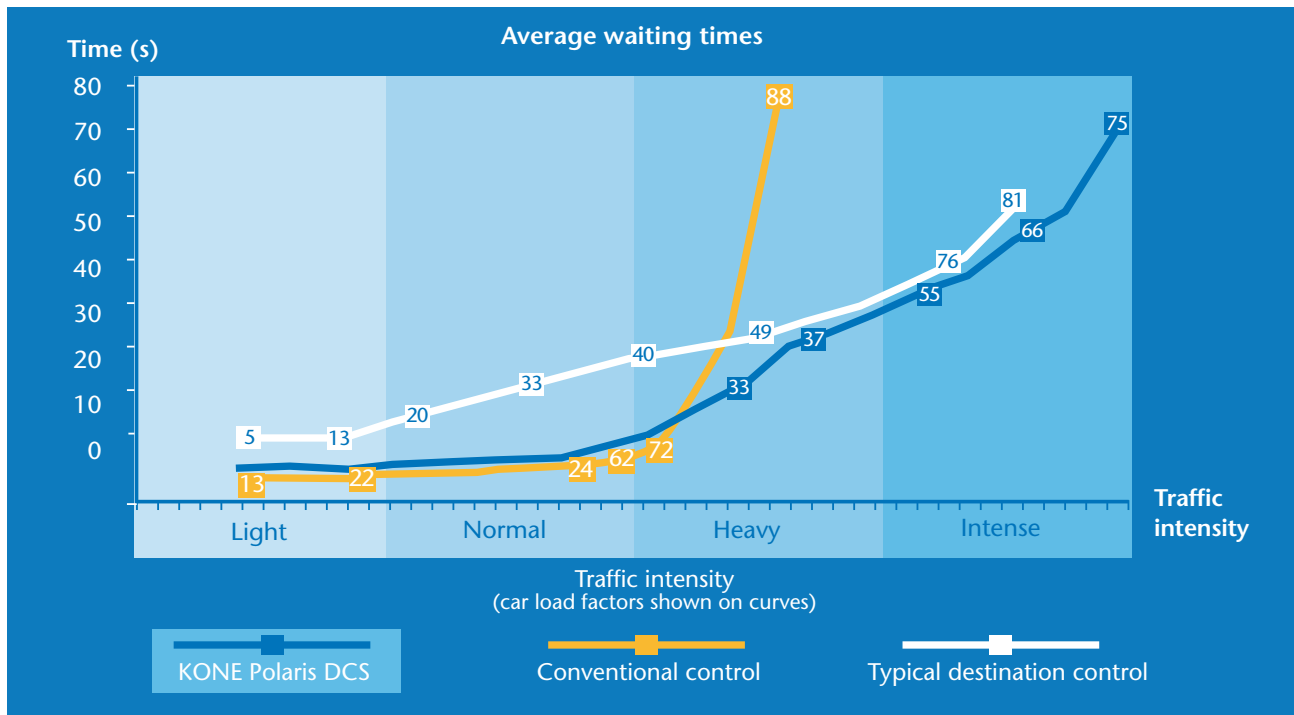
KONE Polaris uses our industry-leading group control technology, which features several software innovations, including:

- Artificial intelligence
- Traffic forecasting
- Fuzzy logic
- Genetic algorithm
- Multi-objective optimization

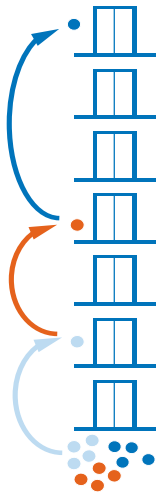
Depending on the number of cars in the group, the car capacity and the number of floors in the building, KONE Polaris can increase the handling capacity of an elevator group by 20–100% during heavy up-peak traffic. In extreme cases the selection of KONE Polaris in the planning phase can eliminate one elevator from the group, increasing the rentable space in the building.

This increase in handling capacity is not achieved at the expense of in-car comfort. With KONE Polaris, car load factors, which represent how full the cars are, remain low compared to elevator groups using a conventional control system, even during heavy traffic periods.

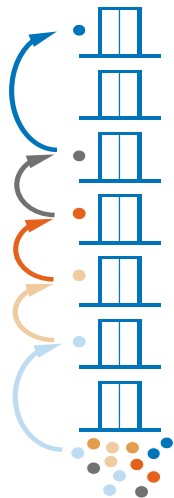
Compared to typical destination control systems and conventional elevator control systems, KONE Polaris cuts waiting times throughout the day. The following figure illustrates how KONE Polaris reduces waiting times for passengers regardless of traffic flow intensity.



Destination Control System



Conventional full collective control



The KONE Polaris DCS minimizes the number of intermediate stops by grouping passengers intelligently. This leads to shorter journey times and better handling capacity compared to conventional full collective elevator systems.

KONE Polaris combines short waiting times with low car load factors. In traditional control systems waiting times tend to increase exponentially when traffic intensity increases over a critical point, whereas KONE Polaris can handle much higher traffic. Built-in artificial intelligence allows KONE Polaris to detect periods of light-normal traffic intensity and adjust the operating mode accordingly in order to optimize waiting times.

U.S. Operations Center

One KONE Court
Moline, Illinois 61265
1-800-956-KONE (5663)

Canadian Operations Centre

6696 Financial Drive, Unit 2
Mississauga, Ontario L5N 7J6
1-905-858-8383

KONE Mexico, S.A. de C.V.

Av. Coyoacán 1622 Ed. 1 PB
Col. Del Valle Sur
México City, D.F. CP 03100
+52.55.1946.0100

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