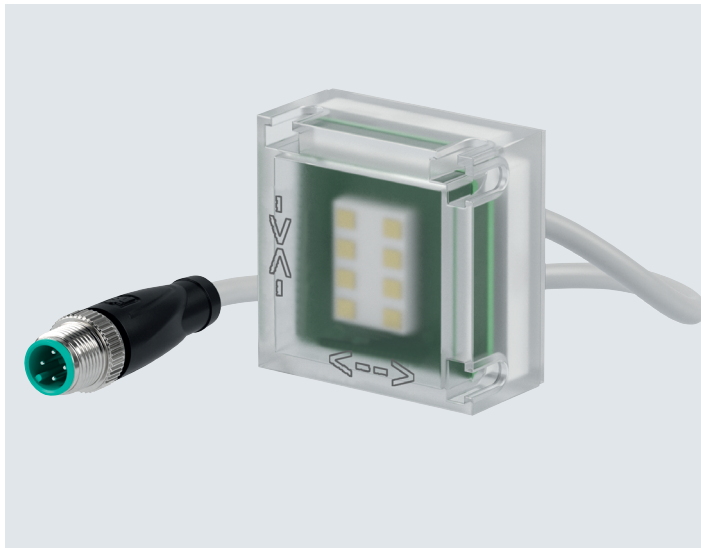
A modern escalator with grey steps and black handrails. A large teal rectangle is on the left, and a light blue oval sensor field is on the floor at the bottom. A yellow line runs along the base of the escalator.

Reliable Activation Counting Function Selectable Detection Field

ESC MS
Motion Sensor for Escalators

Motion sensor for escalators enables:

activation based on demand • selectable detection field • reliable counting



Reliable people counting function

- Safe detection of moving objects (accuracy of the counting function >= 80 %)
- Easy setting of the detection field
- Cross-traffic supression
- Direction detection
- Compact design
- Tamper-proof

Needs-based and efficient

- optimized activation of the escalator (increasing energy efficiency)
- Detection of the movement direction (evaluating of the passenger traffic depending on the time of the day -> peak time analysis)

Technical data	ESC-MS 1.0
Detection range narrow	between 1,5 m and 2,5 m electrically switchable (Detection field narrow)
Detection range wide	between 1,5 m and 2,5 m electrically switchable (Detection field wide)
Operating frequency	24,15 ... 24,25 GHz K-Band
Operating voltage U_B	12 ... 30 V DC
Switching voltage	24 V DC
Circuit type	Push-pull output
Switching current	max. 100 mA
Operating temperature	- 20 ... 60 °C (-4 ... 140 °F)

Highlights

- **Variable detection field geometry**
the field geometry can be selected during mounting by means of installation position and by rotating the square sensor housing at a 90° angle
- **Range adjustment**
between 1,5 meter and 2,5 meter
- **Application-based range of the apron detection**
Timely achievement of the minimum speed according to the latest standard
- **Counter function**
monitoring of the operating hours and weight will optimize maintenance intervals
- **Function display**
clear readability of the movement directions (separately for approaching/leaving) and counted events
- **People counting**
Additional function for the analysis of runtimes and utilization rate (measuring of the levele of wear)
- **World antenna enables global usability**
adopted frequency range allows the worldwide use

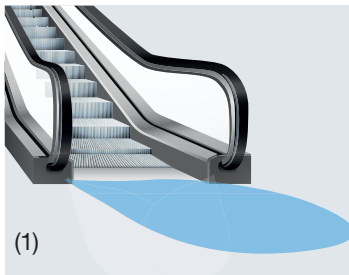
Functioning

Switching of the range between two fixed values (low and high) follows via the digital control input.

The higher range is active during reactivation from the stand-by mode (1) + (2). The lower range is used to accelerate from the slow-running or energy-saving mode (3) + (4).

The adjustment of the detection field geometry is determined by positioning of the square sensor housing during mounting (1) + (3) or (2) + (4).

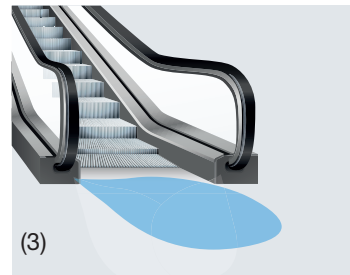
Escalator with one sensor



Narrow, high range



Wide, high range

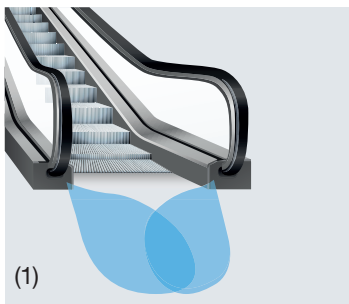


Narrow, low range

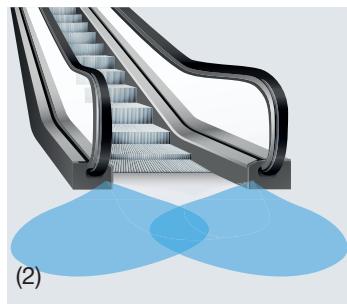


Wide, low range

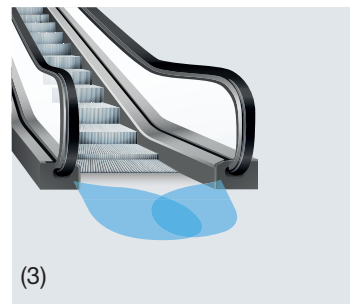
Escalator with two sensors



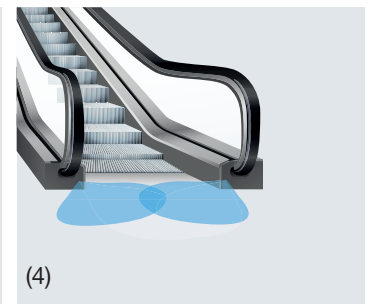
Narrow, high range



Wide, high range



Narrow, low range



Wide, low range



Your expert in Entrance Automation for the following market segments:



Door automation



Barriers



Access control



Gate automation



Fire protection



Perimeter protection



Elevators



People counting



Traffic engineering



Escalators



Public transportation

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