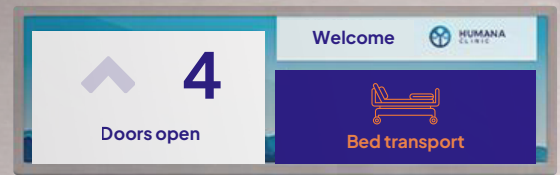


ELFINVISION

Smart **Bed** Detector



Reliable
bed detection
for elevators



ELFINVISION

Smart **Bed** Detector

Briefly explained.

The ELFINVISION Smart Bed Detector detects hospital beds using optical sensors and AI-supported local processing.

Unlike with other technologies, beds are detected reliably and without risk of confusion. The elevator can then, for example, be called fully automatically, adjust door opening times, or trigger a priority ride – entirely according to your requirements.



Benefits.

No risk of confusion

thanks to precise bed detection – even in complex environments with people, cleaning carts, transport trolleys or other objects nearby.

Increased safety

through risk prevention and rapid, automated responses to unauthorized use and dangerous situations.

Improved user experience & operational efficiency

through smooth, intelligent workflows and context-based control and prioritization.



GDPR-compliant



**Autonomous system
without cloud
connection**



**Open interface
to control & monitoring
systems**



**For every elevator
— new builds and
modernizations alike**



Technical data.

Sensors.



Sensor for Surface mounting

Art.no.: cel-XMP-ETH-DOME

- Viewing angle: 170°
- Power supply: PoE or 12V power supply unit
- Dimensions: 120 x 120 x 100 mm
- Range: up to 10 m

Accessories:

- 12V power supply unit (snt-120-050A)
- 2 m Ethernet cable (net-LAN-2m)

or



Sensor for Wall & ceiling recessed mounting

Art.no.: cel-XMP-USB-FEB

- Viewing angle: 160°
- Power supply: via processing unit
- Dimensions: 90 x 90 x 50 mm
- Connection cable: 2 m fixed cable (directly to the sensor)
- Range: up to 5m

Technical data. Processing unit.

flexyPage®

Or



Boxed V4

Art.no.: fel4A-01A-CV

- Power supply: 24 VDC
- Dimensions: 190 x 88 x 20 mm
- Interfaces: 4 inputs and CAN

Accessories:

- 24V power supply unit (snt-240-050A)
- I/O node with 16 inputs and outputs (cio-cn16-set2m)

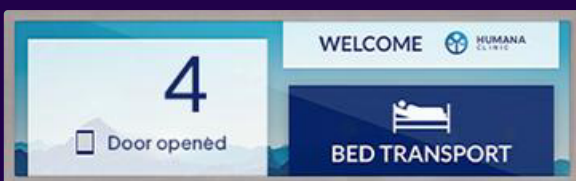


flexyPage displays

- Power supply: 12-24 VDC
- Dimensions: 7 - 46 inch
- Interfaces: 4 inputs and CAN

Accessories:

- 24V power supply unit (snt-240-050A)
- I/O node with 16 inputs and outputs (cio-cn16-set2m)



Benefits of a flexyPage display compared to invisible Boxed V4



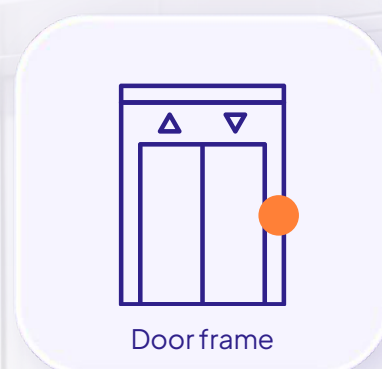
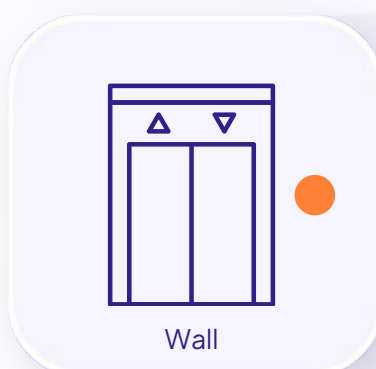
Can be integrated into existing elevator equipment, for example as a floor display or to show information messages such as "Attention: Bed transport".

On-site commissioning.

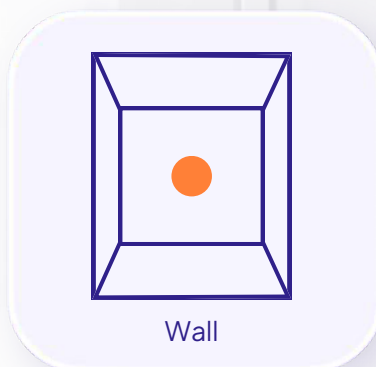
Sensor installation

The sensors can be installed in the ceiling, wall or door frame, depending on the model. The right sensor for your project depends on the available installation options.

On the floors



In the elevator car



-  Surface mounting
-  Wall & ceiling recessed mounting

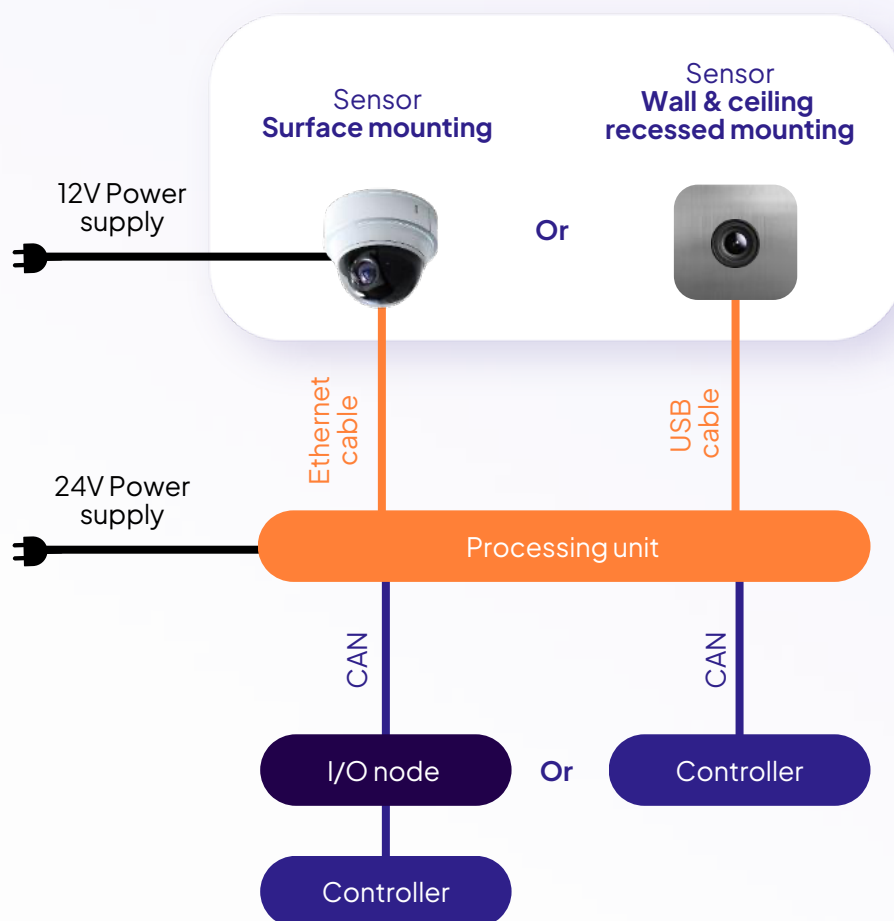


When positioning the sensors, please ensure that:

- there are no blind spots
- no direct light falls into the sensor
- the relevant area is fully visible

On-site commissioning.

Wiring



CANopen

Special function code 0E _h	Function
11 _h	Activate bed transport mode

I/O node

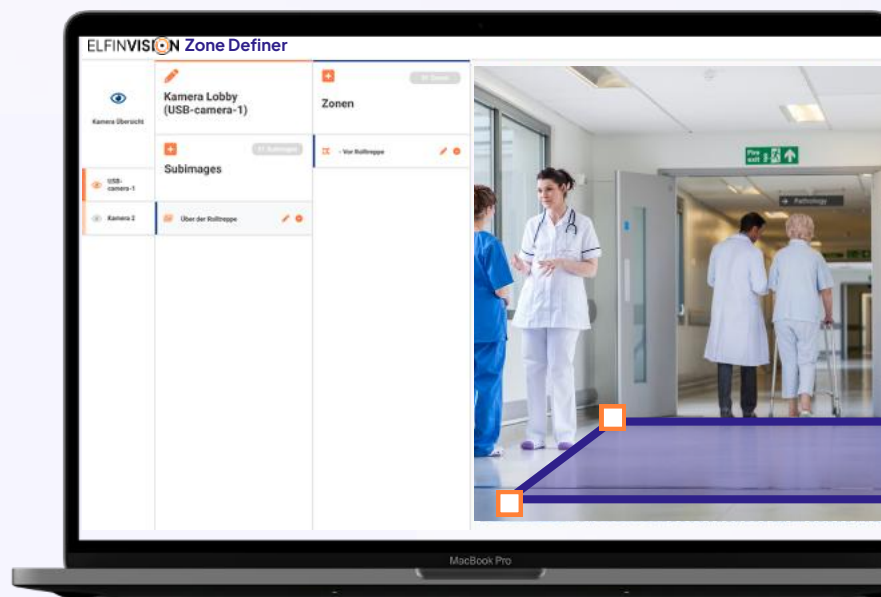
Output	Function
1	Activate bed transport mode
2	System active (Sensor ready for operation)

On-site commissioning.

Zone Definer

The Zone Definer allows you to manage all connected sensors and configure them for Bed detection.

It supports both surface mounting sensors and wall & ceiling recessed mounting sensors, enabling flexible monitoring and image processing.



Sensor detection and configuration

- **Surface mounting sensor:** Are automatically detected and can be configured directly via the web interface.
- **Wall & ceiling recessed mounting sensor:** Must be added manually by entering a stream URL.

Sensor settings:

The following parameters can be configured for each sensor:

- **Fisheye view cropping:** Focuses on the relevant circular image area.
- **Distortion correction parameters:** Corrects lens distortion.
- **Sensor name:** Allows each sensor to be assigned a descriptive name.

Zones

With the Zone Definer, individual areas within the image can be defined using polygon selection. These zones determine where beds should be detected.

Areas that should be ignored during detection can also be defined. This configuration is set individually for each sensor, allowing location-specific and customized setup.

This makes it possible to take the specific conditions at each sensor location into account and adjust the detection settings accordingly.



Order details.

To operate the ELFINVISION Smart Bed Detector, a selection of the products listed below is required. When placing your order, please specify the desired quantity as well as the corresponding article numbers of the components you require or that have been recommended by us.

Sensors

Article numbers sensors

- **Sensor surface mounting**

Accessories

- **12V power supply unit**
- **2m ethernet cable**

- cel-XMP-ETH-DOME

- snt-120-050A
- net-LAN-2mI

Or

- **Sensor wall & ceiling recessed mounting**

- cel-XMP-USB-FEB

Processing unit

Article numbers processing unit

- **Boxed V4 processing unit**

Accessories

- **24V power supply unit**
- **I/O node with 16 in- & outputs**
(optional)

- fel4A-01A-CV

- snt-240-050A
- cio-cn16-set2m

Or

- **flexyPage display**

Accessories

- **24V power supply unit**
- **I/O node with 16 in- & outputs**
(optional)

- snt-240-050A
- cio-cn16-set2m

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Visit flexyPage.de/displays to discover the various display sizes.



ELFIN Technology GmbH
Im Zollhafen 22
50678 Cologne, Germany

+49 221 6778932-0
sales@elfin.de
elfin.de