



ZUMTOBEL



# SMARTSIGN & SMARTescape

Dynamic escape route guidance. Protects lives.

# Intelligent emergency exit guidance that saves lives.

Because in critical situations, every second counts. And above all: every individual. The SMARTSIGN safety sign luminaire allows for directionally variable escape route guidance – and directs you outside via the safest route. With a full HD display. Individually programmable. Highly visible due to a detection range of 38 meters and a luminance  $> 500 \text{ cd/m}^2$  in accordance with DIN 4844\*. Suitable for every building situation thanks to numerous installation types. Whether it's fire, smoke, or other dangers: escape route guidance that indicates where it is safe. In conjunction with the nBox system, SMARTescape software, and PROset tools: for security with a system.



If the fire alarm system responds to smoke or a security alarm is triggered, SMARTSIGN applies the lead: direction arrows switch and guide people directly to safe exits. A red "X" over the escape sign indicates blocked exits.

*\* HP version*



# From office to underground garage. One system. Many scenarios.

Dynamic/adaptive\* escape route guidance shows its full potential where people need to orient themselves – quickly, safely, and under pressure. Whether it's extensive facilities, complex floor plans, or many floors: Where security cannot be considered static, SMARTSIGN brings structure to the unpredictable. With protection type IP40, it can be used in a wide variety of applications: from expansive airports, museums, and shopping centers to offices, schools, and universities.

## **Hospitals**

Extensive, complex building structures impose specific requirements on navigation. SMARTSIGN supports patients and medical staff equally – and reliably indicates the way to safety even in complex situations.

## **Shopping centres, shops, and hardware stores**

Customers get lost in the space – SMARTSIGN offers guidance. With flexible signal routing, escape signs can be adapted to new layouts, conversions, or renovations at any time. A red "X" indicates restricted areas, such as construction sites. A luminous arrow indicates the secure path.

## **Office buildings**

Whether small units or large office complexes with numerous floors: SMARTSIGN directs employees and visitors to the exit efficiently, safely, and appropriately for every situation.

## **Schools and universities**

When a classroom situation suddenly becomes an emergency, SMARTSIGN points the way: large crowds are calmly and safely directed outside. Danger zones can be marked with a red "X" – for instance, in cases of suspected active shooter or terrorism. Flexible changes in usage are also made possible. From the gymnasium during the day to the event hall in the evening: Simply adjust the emergency exit guidance.

## **Museums, theatres, concert and event venues**

Art, culture, emotion – and in the background: a dynamic emergency exit guidance system. SMARTSIGN safely guides the flow of people to the outside. A key switch can be used to designate alternative escape routes, for instance, when the stage area is secured.

## **Airports and railway stations**

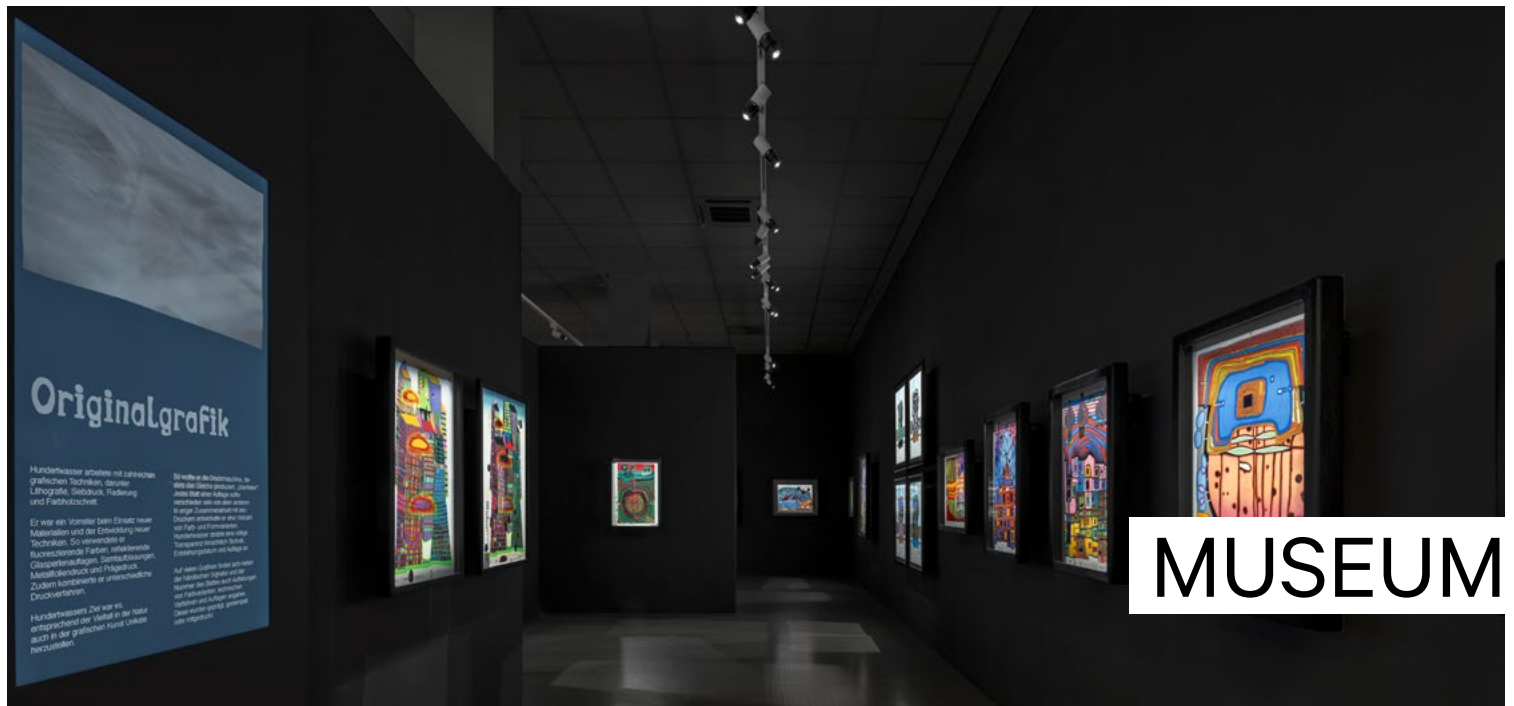
Travellers without local knowledge rely on visual guidance. SMARTSIGN reliably sets the direction – even in an emergency situation.

*\* In planning*



APPLICATIONS

OFFICE



MUSEUM



AIRPORT

# An escape-sign luminaire. For all your usage requirements.

SMARTSIGN adjusts emergency routes – to spaces, to individuals, to circumstances. The escape signs feature an individually programmable Full HD display, making escape route communication as flexible as possible. Compliant with standards – and beyond: in addition to the pre-installed safety signs that comply with ISO 7010, additional text can also be displayed: freely selectable and in a wide variety of languages.



— 41 mm —



#### Already pre-installed:

All safety signs in accordance with ISO 7010 – ranging from green emergency exit signs to red fire protection and prohibition signs, and from yellow warning signs to blue mandatory signs. In addition, the SMARTescape software can also be used to create customised displays:

- **Additional text messages**, either below the pictogram or as full-screen text

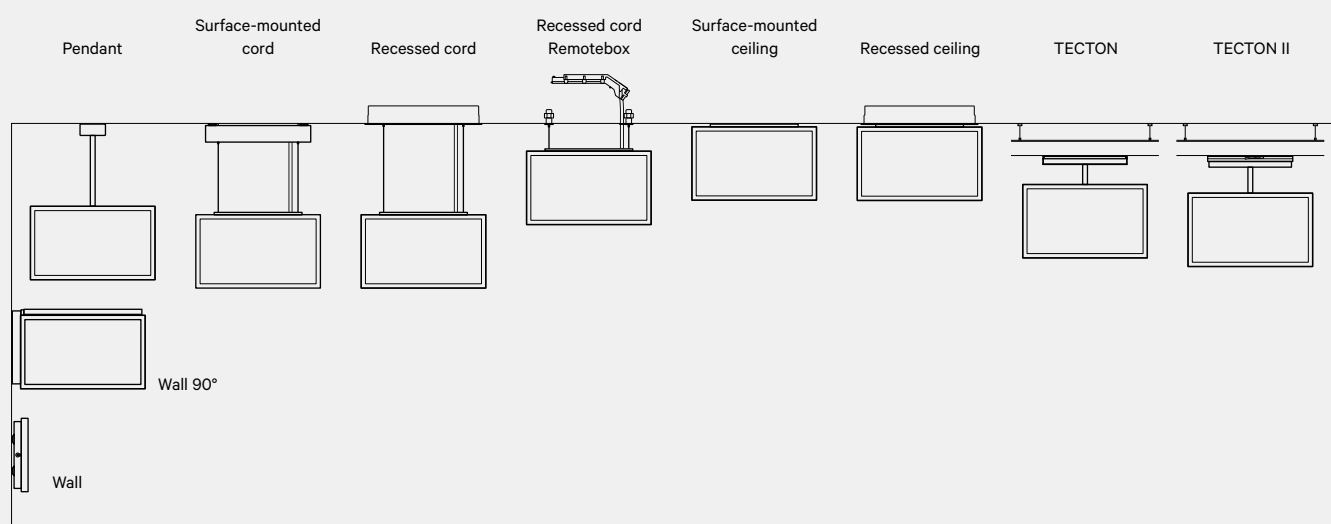
- **Various text and background colours** as well as languages and scripts
- **Flashing** the entire pictogram or the red X sign to draw the attention of people in the building
- **Switch** between two pictograms or between a pictogram and a full-surface text
- **Upload your own images**, for example to use SMARTSIGN as room signage\*

\* In planning



366 mm

## Mounting options



# Configurable on mobile: the PROset App

One download, widespread possibilities:  
The PROset app is available for iOS and Android. It can be used to address and configure individual SMARTSIGN luminaires: determine which pictogram is displayed during normal operation and which dimming values should apply in both mains and emergency operation. Various luminaire statistics are also available at a glance, such as test results and operating times.



Video: PROset App



Configuration without mains connection - thanks to NFC interface.

# Independent in an emergency: interacts with nBox

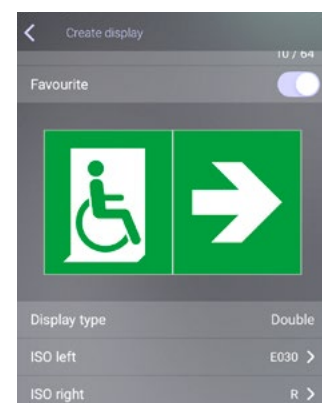
Takes over when the central power supply fails: The compact nBox group battery system can apply power to a section of up to 1600 square metres in emergency operation – reliably and stably in accordance with DIN EN 50171 (central power supply systems), and is also intelligently networked. To ensure that everything works together seamlessly in an emergency – SMARTSIGN luminaires, nBox, and linked systems such as a fire alarm system – you need the right software: with the nBox SMARTescape software license, nBox becomes a dynamic/adaptive\* emergency lighting system.

## **Intelligently networked:**

### **How nBox DYNAMIC works**

The four programmable inputs of the nBox allow for up to 16 different scenarios: Configure individually how SMARTSIGN should behave – and include information from various systems:

- **Smoke reports** received via a linked fire alarm system
- **Manual alarms**, for example via a manual fire alarm call point in the stairwell
- **Predefined scenarios** that can be activated by an authorized person via the nBox SMARTescape software, e.g. a terror alert



Manual  
nBox SMARTescape

*\* In planning*



Each nBox supplies a fire compartment measuring up to 1600 m<sup>2</sup>.

# Your building is changing, SMARTSIGN knows it.

Agile working environments, adaptable room layouts, new usage models – buildings are dynamic today. “It’s good for escape signs to be flexible.” SMARTSIGN adapts – software-supported and future-proof. Should you turn right or left? New spatial usage, new layout? With just a few clicks, you can update your escape route guidance – simple and intuitively via the web or app interface of the nBox. Without structural modifications, without compromising safety.

## **Change in use**

School sports during the day, event space in the evening. A change in use or furnishings necessitates a different pathway. SMARTSIGN adapts – with just a few clicks.

## **Room modification**

Is the open collaboration space in the office divided into smaller breakout zones? Are renovation works blocking an exit? SMARTSIGN is aware of new escape routes – and indicates them.

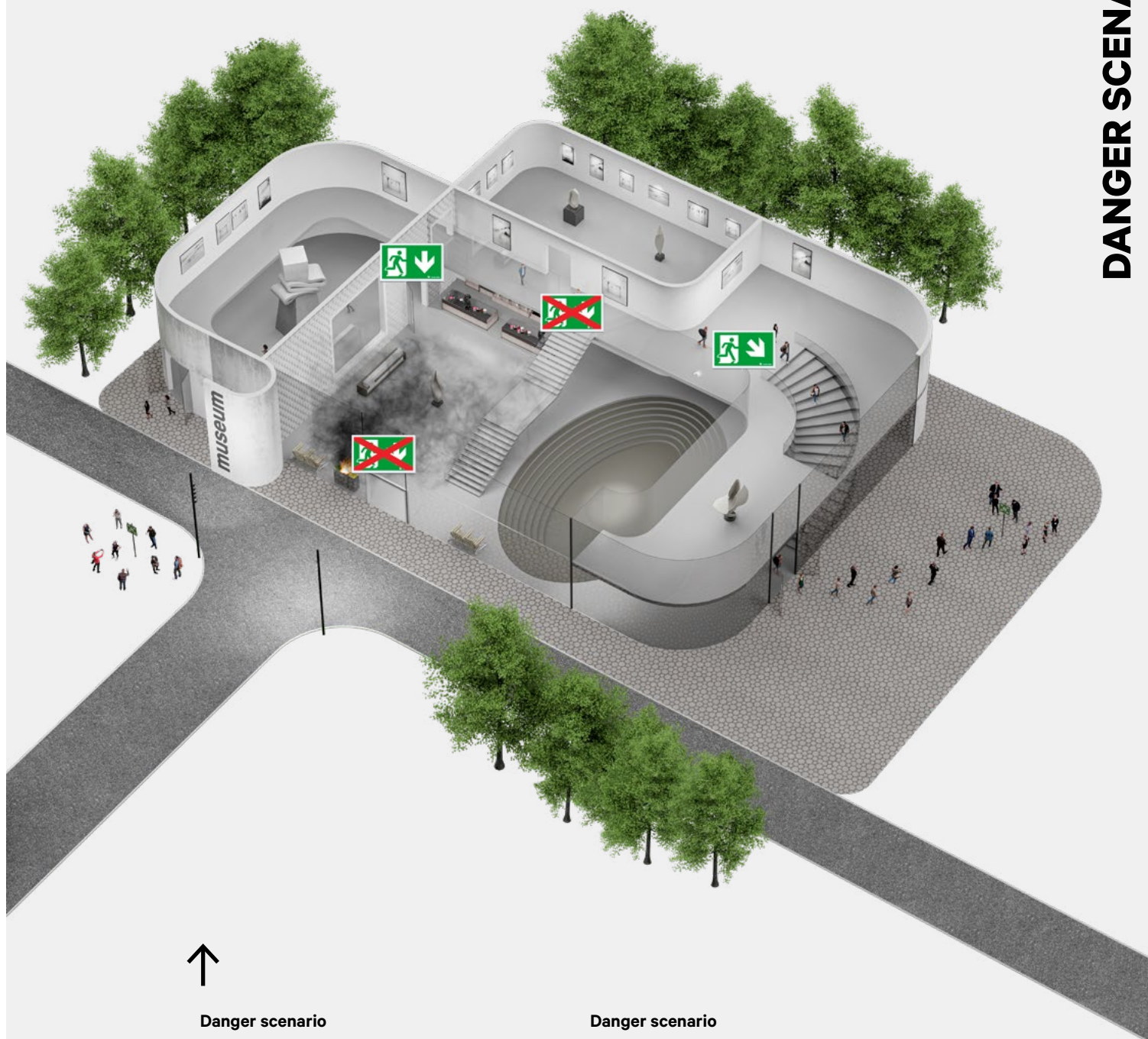
## **Building extensions**

Extension instead of exit? Where the original escape route led outside, there is now a new building. SMARTSIGN displays new routes in seconds. Digitally customisable via nBox software.

## **Compensatory measures**

More visitors, more activity, more risk – for instance, in an airport terminal. With the dynamic/adaptive\* emergency lighting from Zumtobel you can compensate for structural disadvantages and avoid costly interventions in the building structure. Always starting from an individual building and risk analysis.

*\* In planning*



## Danger scenario

### Fire in the stairwell

1. Fire is detected, alarm is triggered.
2. The 'Fire alarm' signal reaches the nBox.
3. nBox controls SMARTSIGN luminaires.
4. The pictograms on the SMARTSIGN displays change according to the level of danger: arrows indicate the nearest safe stairwell. Red "X" signs indicate blocked exits.

## Danger scenario

### Terror alert

1. Cameras recognise suspicious individuals and/or suspicious behaviour.
2. Authorised individual activates "terror alarm" via SMARTescape.
3. nBox controls SMARTSIGN luminaires.
4. SMARTSIGN displays indicate red "X" signs for blocked paths. Additional text notes provide information about the danger situation. The staff lock the doors, and SMARTSIGN adjusts the emergency exit signage accordingly.

# High-quality materials. Sleek design. Guaranteed to be future-proof.

Longevity starts with mindset. Every detail matters: SMARTSIGN employs superior materials, optimised design, and meticulous engineering to ensure a system that delivers reliable performance today and durability for the long term. Housing made of premium steel. Die-cast aluminium mounting accessories. A Full HD display with particularly long-lasting LEDs. Dust-protected according to IP40. Compliant with EN17951 and DIN 14036. Robustness that does not impose itself – but that is already integrated.

**Norms you can rely on:**

SMARTSIGN complies with the European norm EN17951 for “Applied lighting technology – Adaptive safety lighting systems”. And the German norm DIN 14036 for “Dynamic and Adaptive Escape Route Guidance.” Clear standards, reliably fulfilled. So that everything meshes together when it counts.

**Effortless conversion:**

SMARTSIGN has the identical installation positions as PURESIGN. This enables you to transition from static to dynamic/adaptive\* escape route guidance without any additional installation effort. Simple connect and switch to the future.

**Display performance, built to last:**

Depending on your needs – and country-specific regulations – we offer two variants: For the High Performance variant (HP) with at least 500 cd/m<sup>2</sup> luminance in the white area in accordance with DIN 4844, Zumtobel offers a 2-year warranty on the display unit. For the High Lifetime Variant (HL) with at least 150 cd/m<sup>2</sup> in the white area, there is even a 5-year warranty on the display unit.

**Zumtobel services for future-proof use:**

From planning to ongoing operation: With special service offerings, Zumtobel supports you in implementing dynamic/adaptive\* escape route guidance.

*\* In planning*



## SMARTSIGN



|                          |                                                                                                                                                 |
|--------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Variants</b>          | HP: high performance (500 cd/m², 2-year warranty)<br>HL: high lifetime (150 cd/m², 5-year warranty)                                             |
| <b>Image display</b>     | Full HD LCD display<br>– All ISO 7010 icons<br>– Freely configurable text                                                                       |
| <b>Image types</b>       | Static<br>Flashing<br>2 images alternating                                                                                                      |
| <b>Detection range</b>   | 38 meters                                                                                                                                       |
| <b>Power supply type</b> | ELP (in combination with the nBox)                                                                                                              |
| <b>Housing</b>           | Powder-coated sheet steel in<br>– White (RAL 9016)<br>– Silver (RAL 9006)<br>– Black (RAL 9005)                                                 |
| <b>Protection class</b>  | IP40                                                                                                                                            |
| <b>Mounting type</b>     | Wall: parallel, 90°<br>Ceiling: surface-mounted, recessed<br>Cord: surface-mounted, recessed, with Remotebox<br>Pendant<br>TECTON and TECTON II |



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