



FISCHER  **-NB**

SELF-CONTAINED LUMINAIRES IN IOT

A GLANCE AT ONE CLICK. EMERGENCY LUMINAIRES THAT ARE SAFE

MONITORING FOR SELF-CONTAINED LUMINAIRES

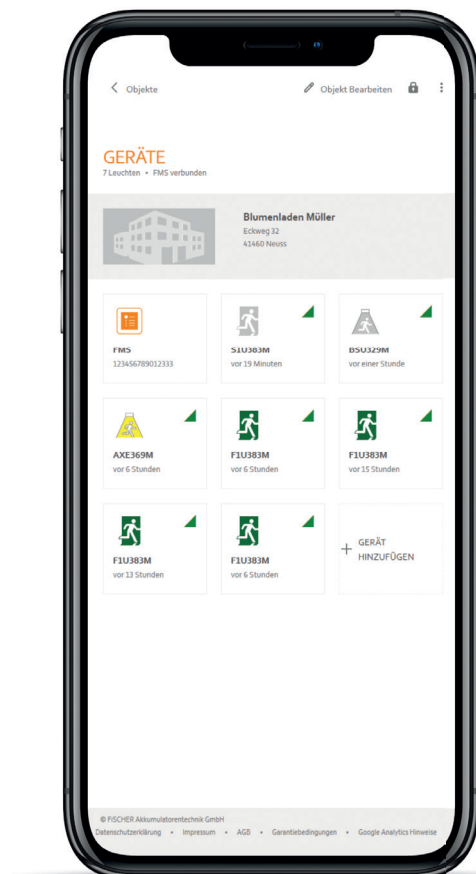
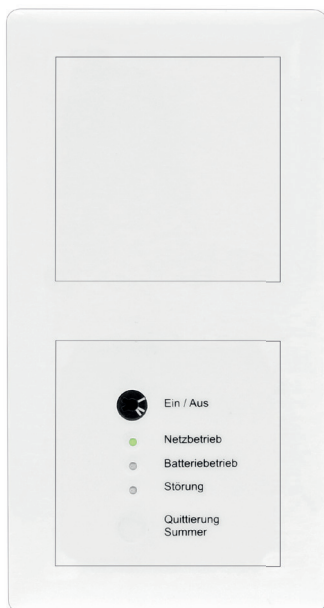
REQUIREMENTS OF EN 50172:2023

 FISCHER  -NB Technology meets all requirements of EN 50172:2023. The standard requires that self-contained luminaires:

1. can be monitored for function at a suitable „central“ location (EN 50172 7.4.2)

2. can prevent battery operation during operational rest periods (EN 50172 Annex D.2)

FISCHER  -NB TECHNOLOGY HANDLES THESE TWO CHALLENGES WITH UNPRECEDENTED EASE FOR OPERATOR AND INSTALLER.



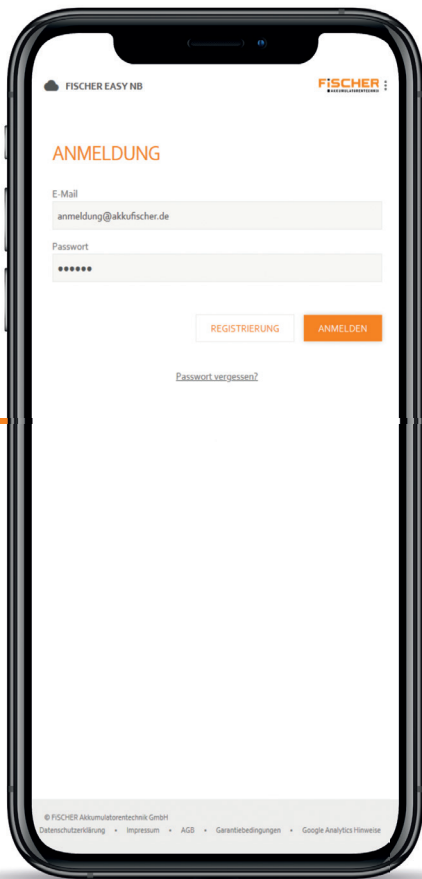
SIMPLY INSTALL,
FISCHER  -NB TAKES THE REST

FOUR SIMPLE STEPS TO EMERGENCY LIGHTING IN CONFORMITY WITH STANDARDS



STEP 1

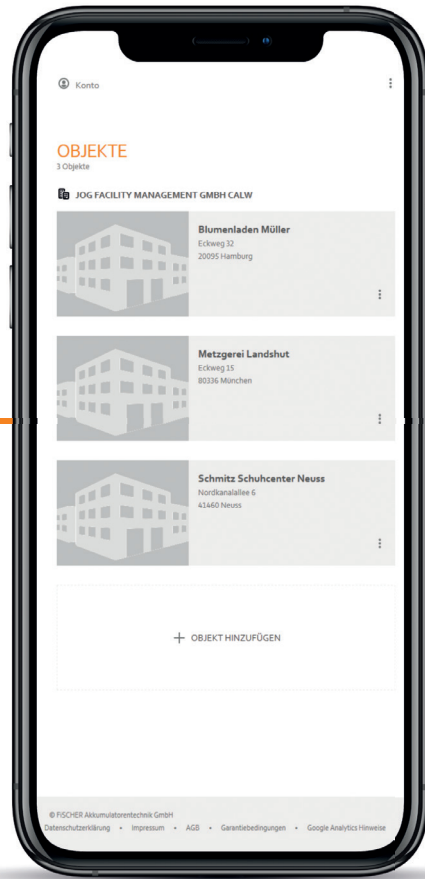
INSTALL THE LUMINAIRE



2

STEP 2

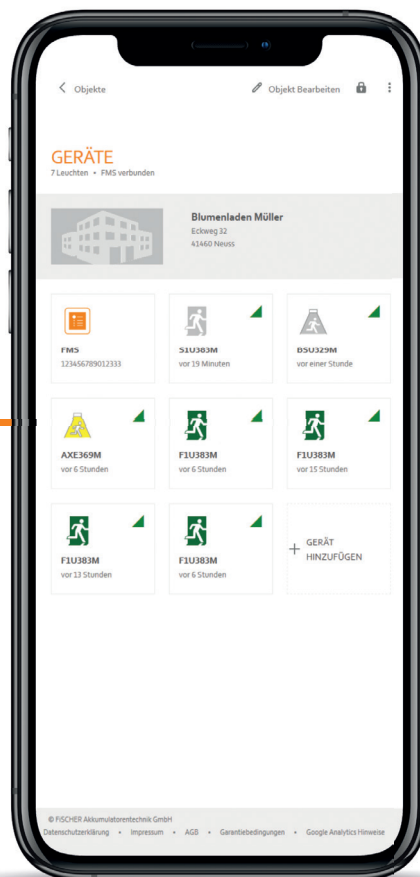
Create an account at www.easy-NB.de



3

STEP 3

Create Object / Facility



OPTIONAL

OPTIONAL

add monitoring device to property

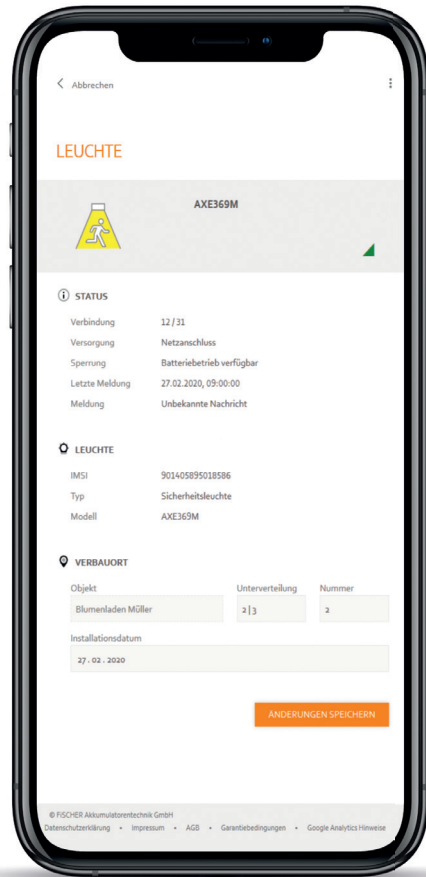
4



STEP 4

Scan the QR-Code on the luminaire and add it

OPTIONAL



OPTIONAL

Name the luminaire



THE **easy**[®]-NB TECHNOLOGY

HOW IT WORKS - AND WHY THERE ARE NO SUBSCRIPTION FEES



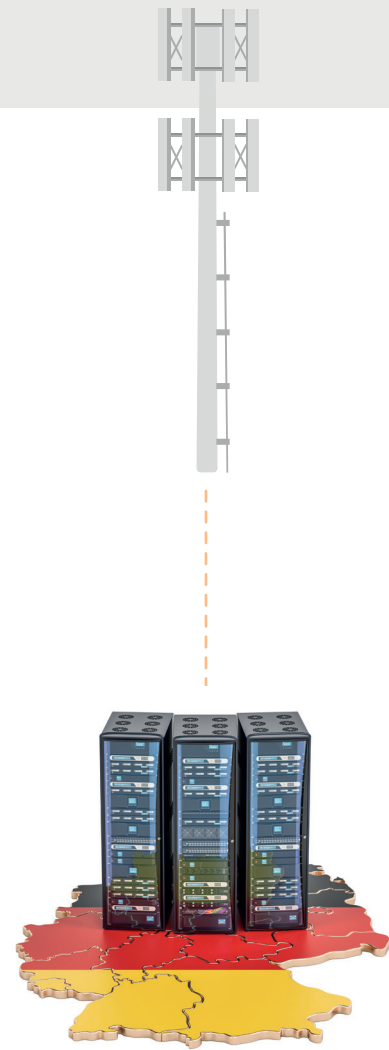
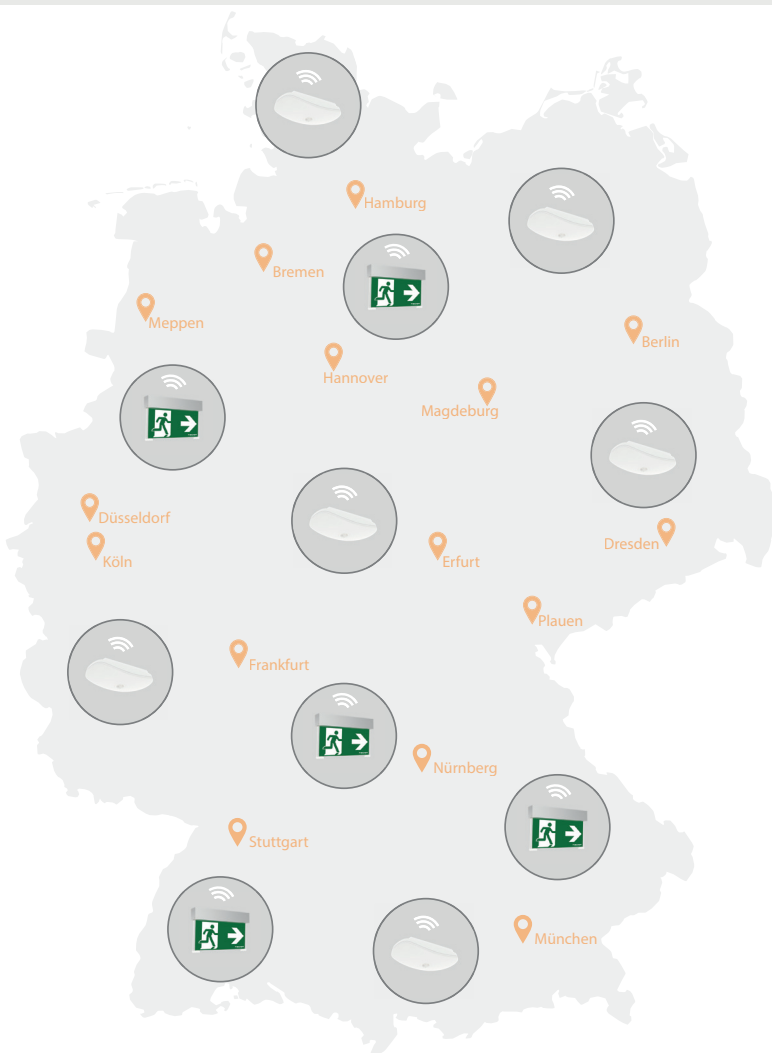
The transmission standard NB-IoT, which was specifically developed for the Internet of Things (IoT), helps us to provide cutting edge emergency lighting .

How? Narrowband technology can only transmit a small amount of data, but it can transmit it very far into the building. That is why we normally keep status messages as small as possible (e.g. 0.3 KB) which we then transmit over a long distance.

! The data transfer of the easy-NB luminaires is carried out using a built-in SIM card and has been included in the purchase price for seven years. When the battery in the luminaire is used up after approximately seven years, we use this moment and replace battery and SIM card in one step.

DATA CENTER IN GERMANY

WHY YOU CAN SLEEP EVEN BETTER NOW



Data center in Germany*

Each luminaire reports to the data centre after connection to the mains and waits to be added to an object. After connecting to the mains each luminaire reports to the data centre and waits to be

added to the project. You will never have to set up your device or restore lost test books again!

*All luminaires registered in Germany and Austria are connected to the German Data Center. Depending on the EU country, national regulations or technical conditions may make it necessary to set up servers in these countries.

TESTING AND MONITORING WITHOUT A LADDER

easy® -AN EVERYDAY WORK FACILITATION

FiSCHER easy-NB offers the comfort of a central battery system for emergency lighting with self-contained luminaires. The self-contained FiSCHER luminaires of the „M“ generation already comply with the ATS-S classification according to DIN EN 62034 without easy-NB add-on and carry out all necessary tests inde-

pendently. By using the easy-NB add-on, the luminaires are upgraded to type-PER classification. Luminaires of this classification perform the following tasks for the operator:

1. weekly function test and documentation in the inspection book
2. annual capacity test of the battery and documentation in the inspection book

You can connect to the FiSCHER data center online via any device with an internet access and a web browser. After connecting online with the Fischer data center, you can monitor and control every single luminaire, even in different facilities.



Just as required by EN 50172:2023 7.2, the inspection book for each individual property can be easily exported as a PDF file and thus presented to the inspection authorities at any time.

LET'S TALK ABOUT YOUR SUCCESS

HELP YOUR CUSTOMERS TO FULFIL THEIR OBLIGATIONS AS BUILDING OPERATOR

To close maintenance contracts with your customers for the monitoring of emergency luminaires - use the FiSCHER easy-NB technology! You can access and control any easy-NB luminaire from your office PC or on sight with your mobile device. Functionality and endurance tests can be manually initiated online. Test

results, such as luminaire and battery status and error messages can then directly be displayed. User administration and the creation and management of properties is also possible.



It has never been this easy to offer your customers the monitoring and maintenance required by DIN VDE 0108-100-1!

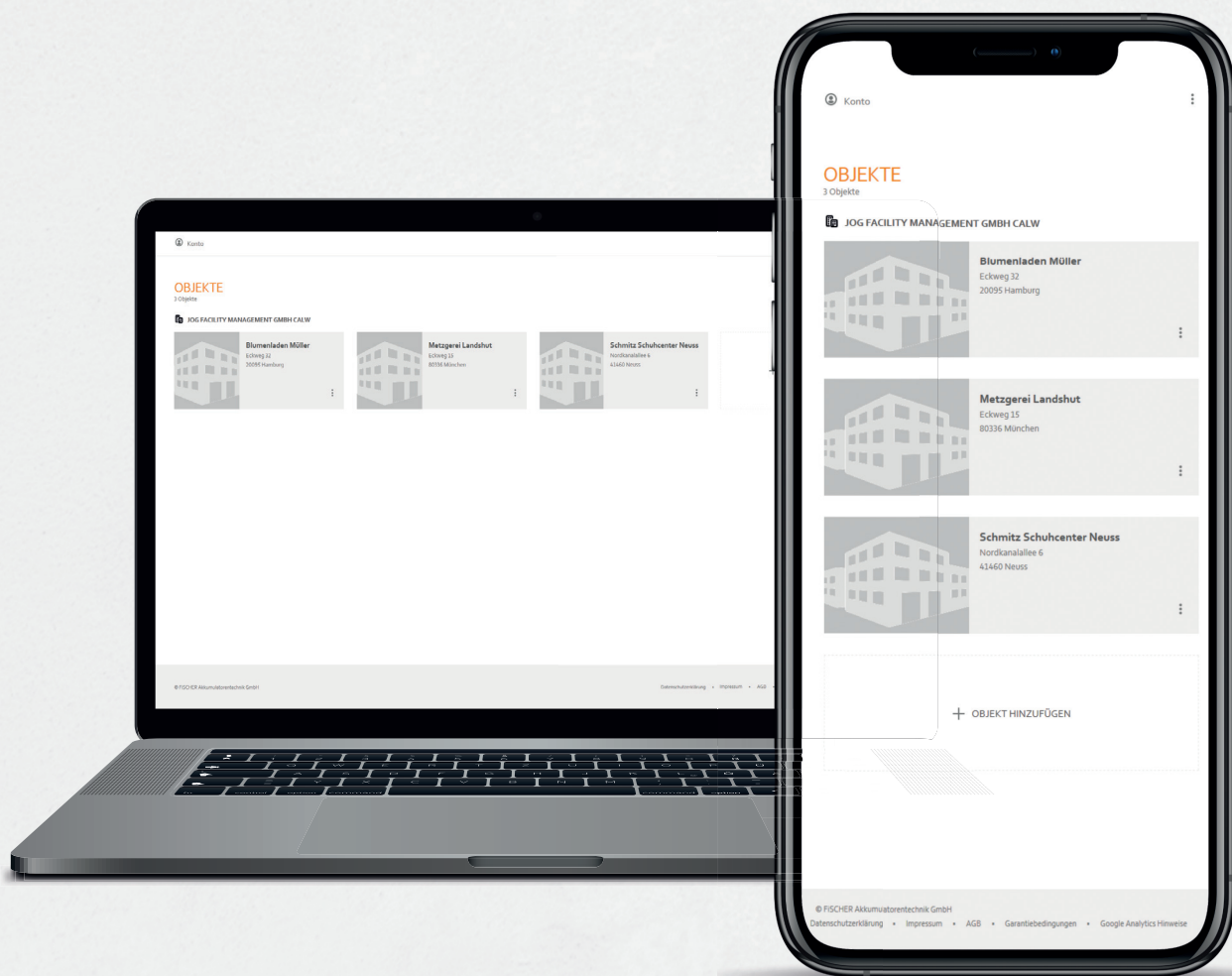
24 HOURS - 365 DAYS A YEAR - ALWAYS ACCESSIBLE - ANYWHERE

FISCHER  -NB - SAFE EMERGENCY LUMINAIRES. WITH ONE CLICK AT A GLANCE

With easy-NB, commissioning, performance of prescribed tests and their documentation is now considerably simplified for luminaires with single batteries. Our web application makes it possible to access luminaires on PCs, MACs and mobile devices from anywhere and at any time. This is particularly useful for customers with a large number of facilities to maintain. To make maintenance of many facilities easier in the future,

we plan to implement a list view besides the icon view in the near future. With FiSCHER easy-NB no customer wishes remain unfulfilled.

Save time when first installing a luminaire by registering today at: www.easy-nb.de



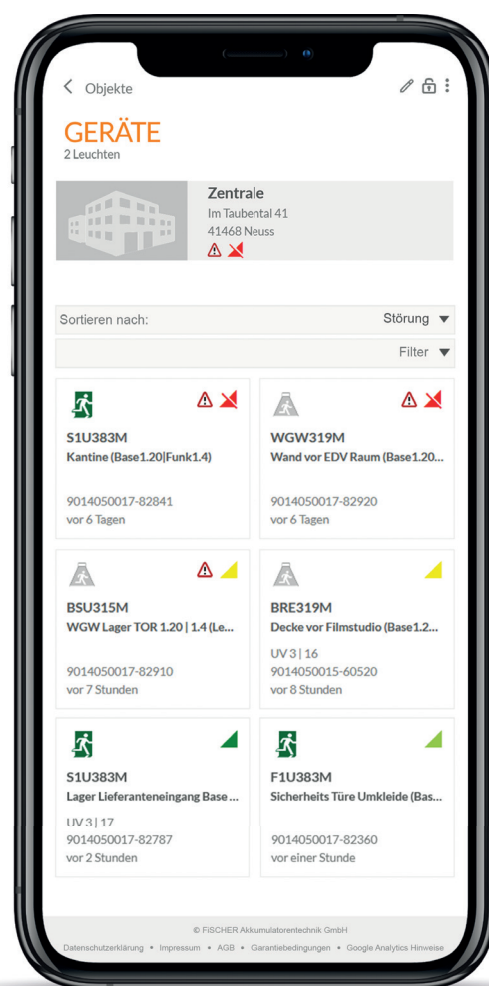
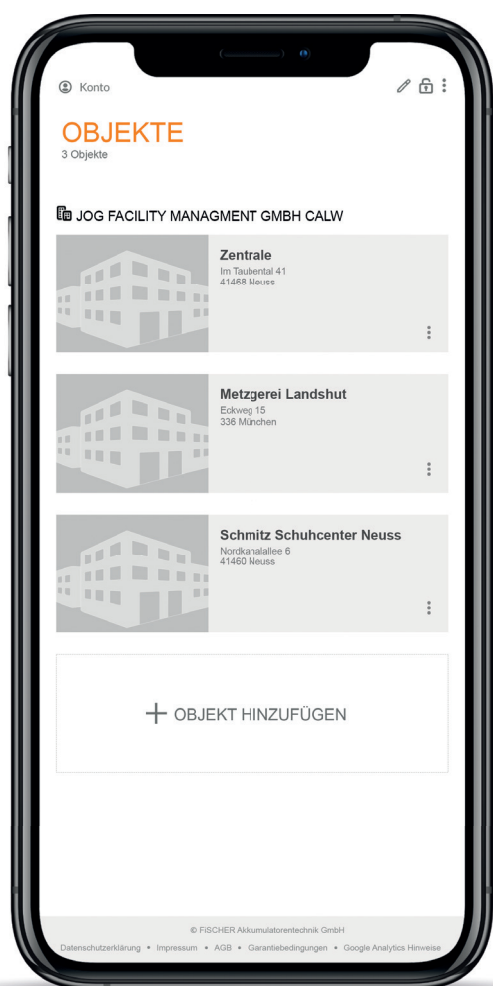
INTUITIVE USER INTERFACE

WEB APPLICATION IN RESPONSIVE DESIGN FOR INTUITIVE USE

OFF  -NB ON ANY DEVICE

Commissioning, performing mandatory tests and documenting them is now significantly simplified with easy-NB, even for self-contained luminaires. Our responsive-design web application makes it possible to use easy-NB on almost any current end device. Whether the PC or MAC in the office or via a mobile device, access is possible everywhere. Through the continuous expansion

with new functions and the adaptation of easy-NB to the current standards situation, it is now possible for the first time to always be precisely informed about the status of the emergency lighting without an on-site deployment!

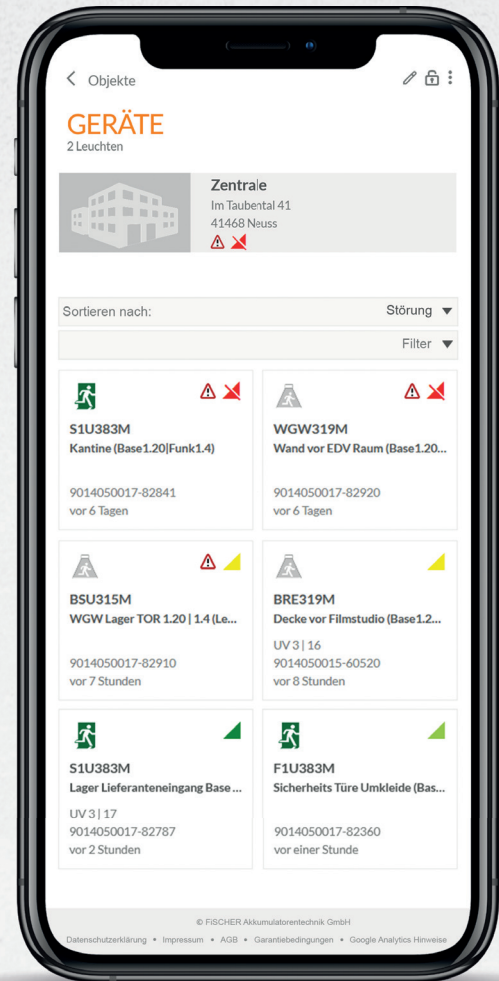
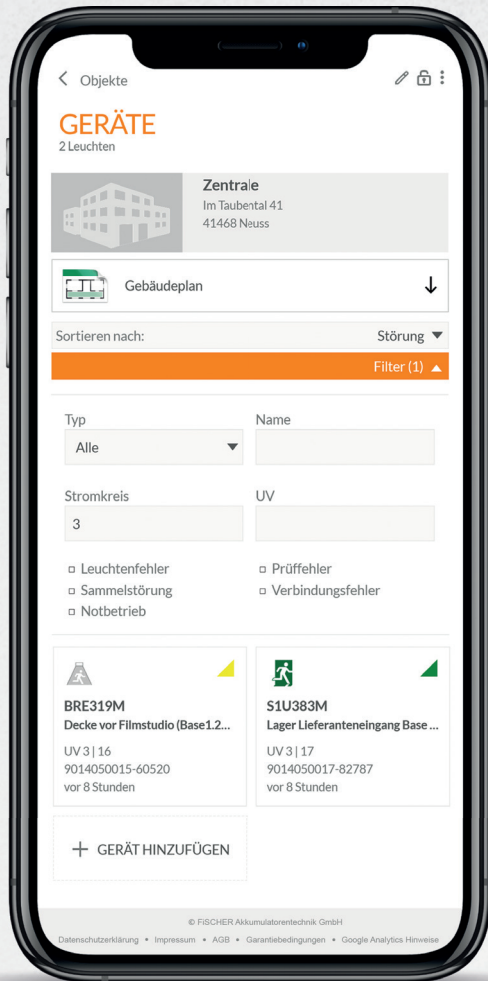


Object / Create property

- » Exact overview also over a large number of properties
- » Optionally in icon or list view
- » Different filter functions

The search for an error type is also possible:

- » Luminaire fault
- » Collective fault
- » Emergency operation
- » Test error
- » Connection error



Filter function for fast Troubleshooting

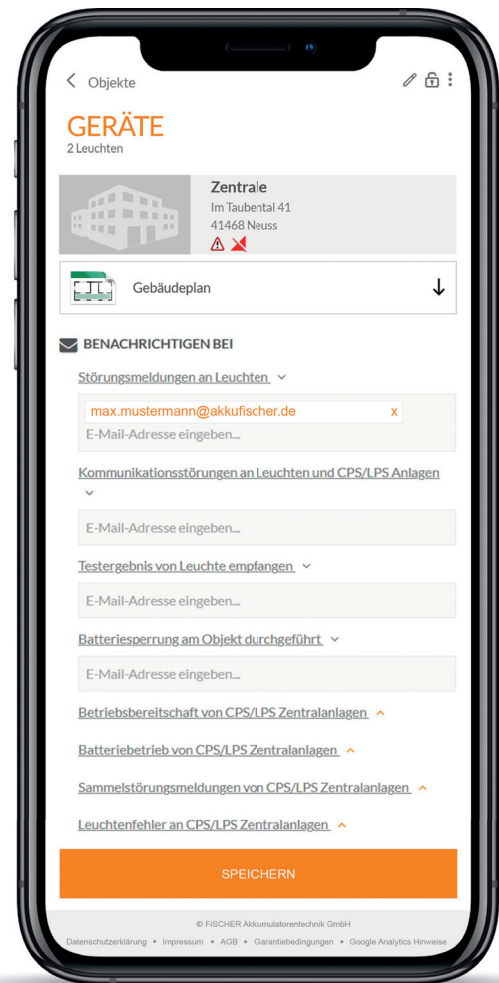
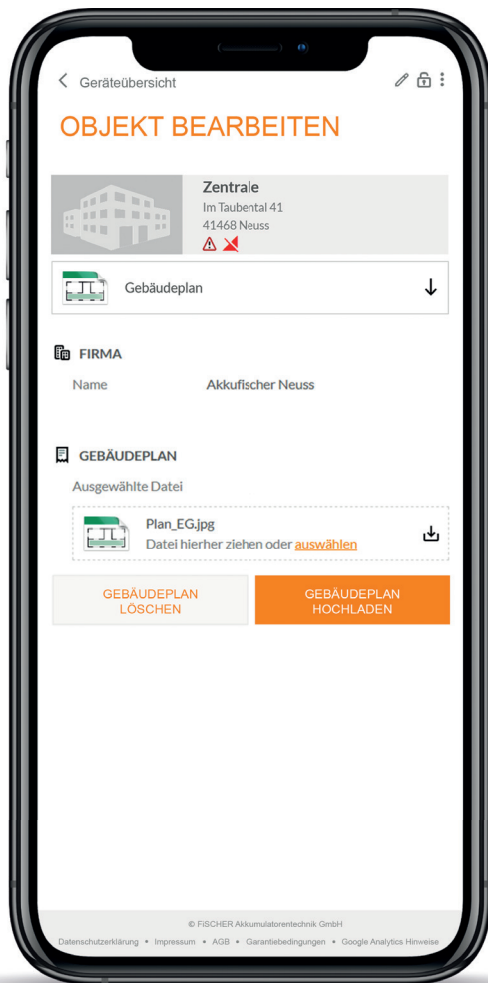
The status of each luminaire can be quickly viewed via filters. Troubleshooting is made easy by filtering by

- » Luminaire type
- » Name of the luminaire
- » Circuit
- » Sub-distribution

easily and quickly.

Luminaire control in detail

- » Luminaire type is displayed
- » Naming of luminaires in free text
- » Life check of luminaire status
- » Sub-distribution can be stored
- » Triggering of a function test
- » Triggering of a capacity test
- » Notification when battery operation is blocked or cancelled



Storing a building plan

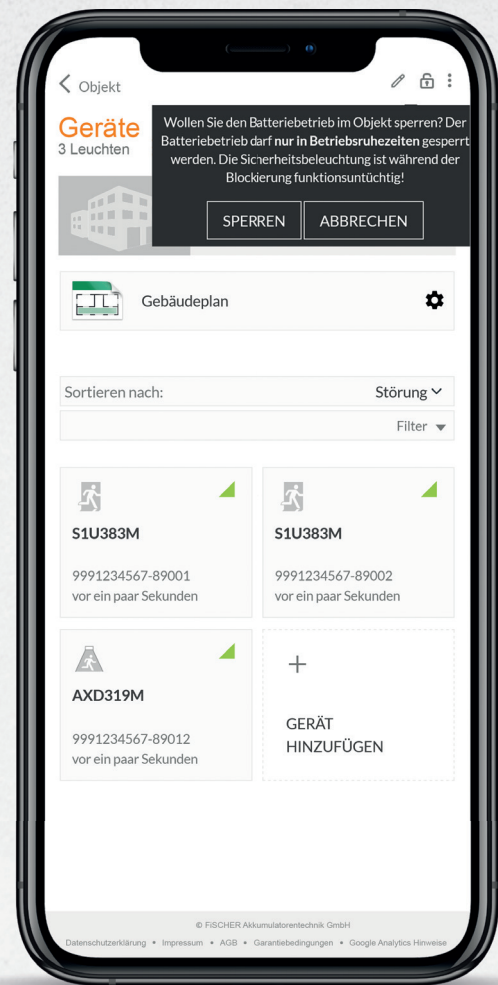
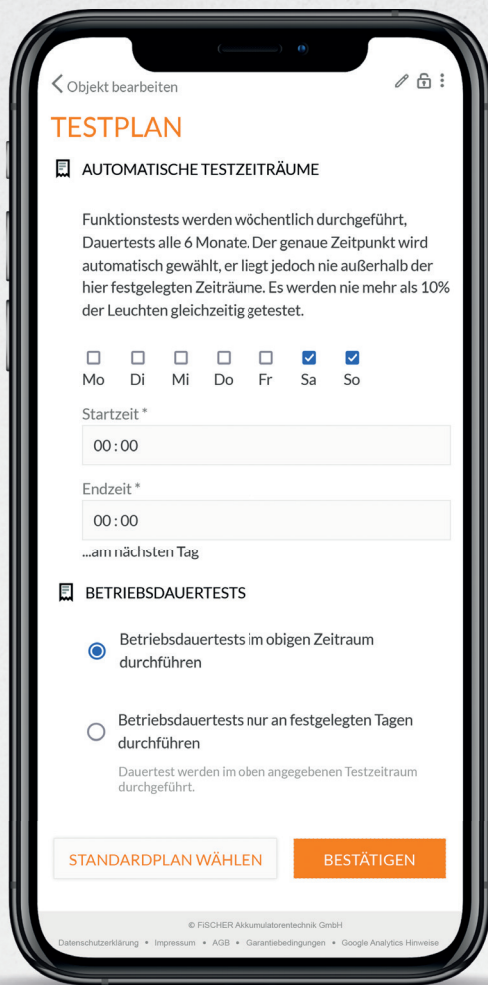
Locating a luminaire only by its designation in a large property is often not an easy and quick task. With the help of a stored building plan

- » Even people who are not familiar with the building can find the luminaire
- » Several users can access the plan at the same time

Set up e-mail addresses

Want to direct certain notifications to the right person? Different types of notifications can be sent to different email addresses without any complex configuration:

- » Fault notification to luminaires
- » Communication fault to luminaires
- » Test result received from luminaire
- » Notification in case of blocking of battery operation or its cancellation



Test plan

If you are surprised by the test of emergency lighting luminaires in a restaurant during a candlelight dinner, the mood suffers considerably. To avoid such situations, the weekly test time and the time of the continuous operation test can be preselected within the scope of normative possibilities.

- » Weekday can be selected
- » Start and end time can be selected
- » Duration test can be set for 3 years in advance

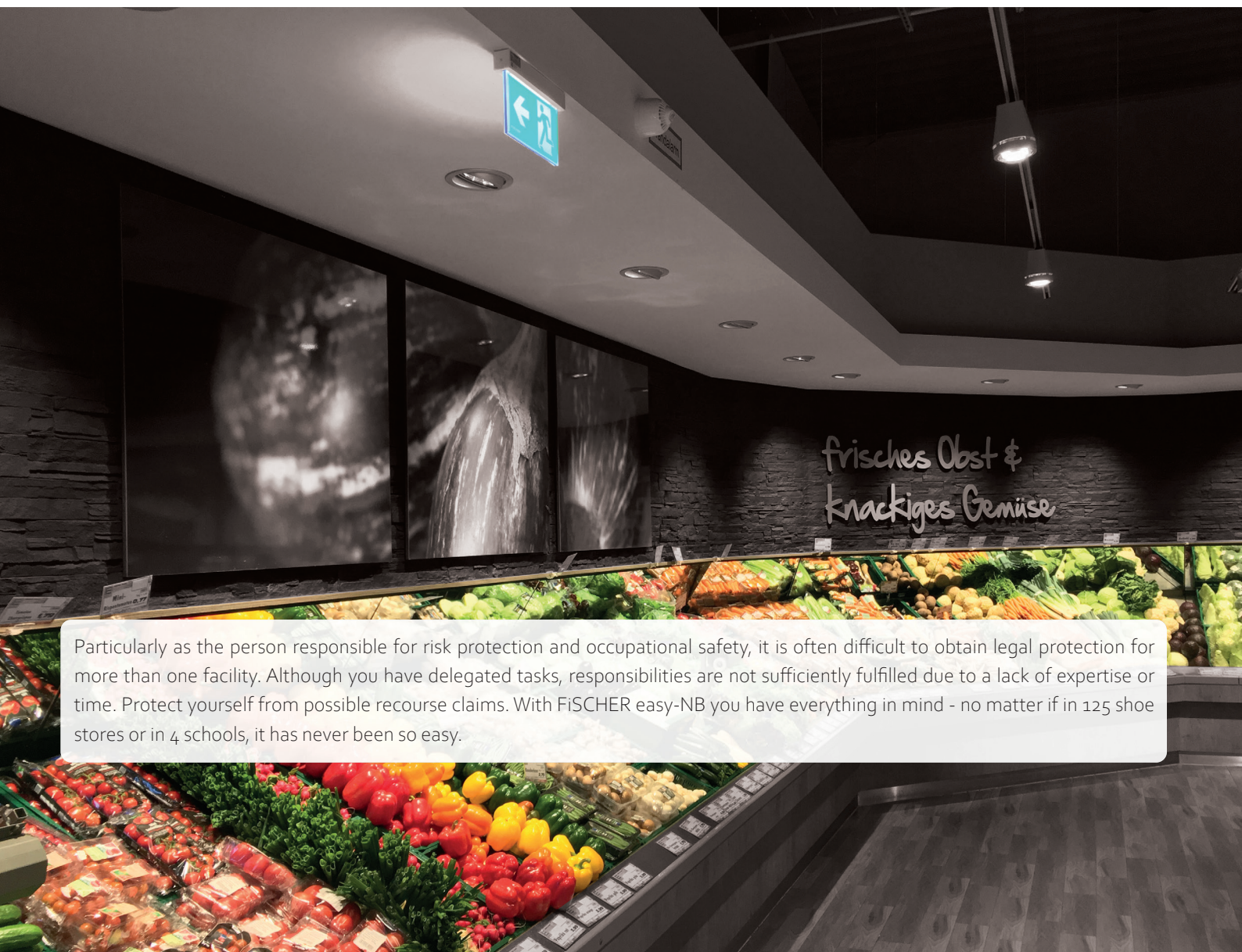
Blocking of the battery operation

Execution of blocking the battery operation in operation rest periods:

- » Via the user interface
- » Via an optional easy-NB remote signalling panel

EVERYTHING AT A GLANCE

DO JUSTICE TO YOUR RESPONSIBILITY WITH FISCHER -NB





Particularly as the person responsible for risk protection and occupational safety, it is often difficult to obtain legal protection for more than one facility. Although you have delegated tasks, responsibilities are not sufficiently fulfilled due to a lack of expertise or time. Protect yourself from possible recourse claims. With FISCHER easy-NB you have everything in mind - no matter if in 125 shoe stores or in 4 schools, it has never been so easy.

**FIND FURTHER INFORMATION REGARDING OPERATOR
LIABILITY ON OUR WEBSITE:**



ADVANTAGES IN COMPARISON

A GLANCE AT ON CLICK

	 NB	 ECC3	ECC2	INSILIA LPS	ZBX CPS
Easy to install	+	+	-	+	-
Requires no cable to maintain function	+	+	+	+*	-
Requires no separate operations room	+	+	+	+**	-
Secure data and setting storage in a data center	+	-	-	-	-
Test book available as PDF	+	-	-	-	-
Decentralised monitoring of all luminaires / systems	+	-	-	-	-
App for monitoring all luminaires / systems	+	-	-	-	-
„Push“ e-mail in case of errors without additional integration into the building network	+	-	-	-	-
DesignLife of the battery: 10 years	-	-	-	-	+
DesignLife of the battery: 5 years	+	+	+	+	-
Switching inputs for switching luminaires	-	+	+	+	+
Handing over status messages via potential free contacts	+***	+	+	+	+
Setting the point in time for the test of the luminaires	+	+	+	+	+

* Within one fire compartment (must not be left)

** Depending on the federal state, a separate operating room may be required. A nationwide regulation is still pending. (only applies to Germany)

*** Additional signalling or I/O module required. Depending on the signal strength, the switching commands can be delayed

THE **easy**[®]-NB RANGE-EXTENDER

IF THERE'S A WHITE SPOT ON THE MAP



If the expected building penetration of the NB-IoT network coverage is not given, the easy-NB Range-Extender offers a simple possibility to connect up to 4 easy-NB luminaires to the data center. With the easy-NB Range-Extender, the access point to the IoT network can be moved by cable to areas where a sufficient signal level from Deutsche Telekom is available. Due to the high IP class of the extender, the installation can also be carried out in the outdoor areas of objects.

NB-IoT ADD-ON

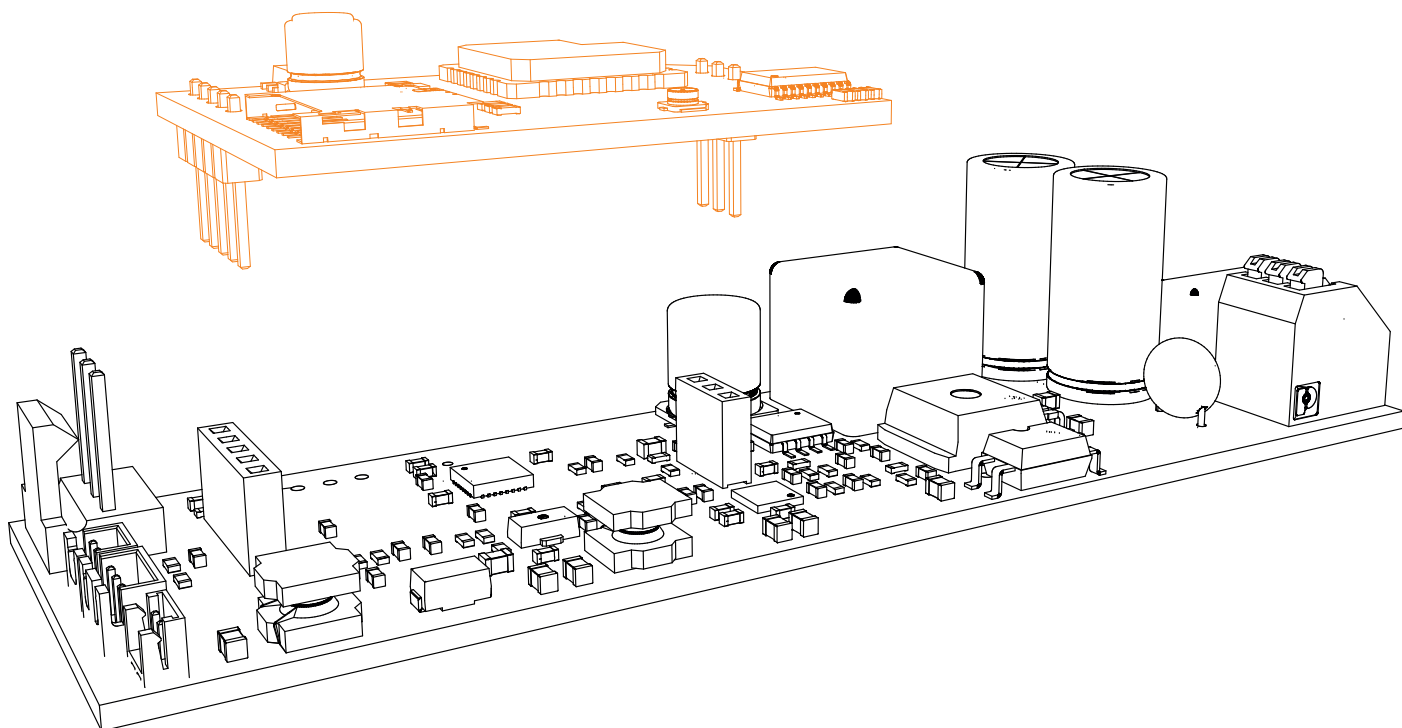


TECHNICAL DATA

Radio technology: LTE-NB
Colour: white
Signal strength: Display via LED-Code

Item number: EASY.UP.NB-IOT

The NB-IoT Add-On offers a retrofit option for all luminaires of the FiSCHER M-series. The NB-IoT Add-On can be easily assigned to an object or facility in the application using the supplied QR code.



THE ADD-ON CAN BE USED WITH ALL LUMINAIRES OF THE „M“ SERIES TO BE RETROFITTED AND MAKES THE LUMINAIRE NB-IOT CAPABLE.

You can find compatible luminaires for FiSCHER easy-NB-IoT at www.akkufischer.de

RANGE-EXTENDER

TECHNICAL DATA

Input voltage:	230 V AC $\pm 10\%$, 50/60 Hz
Protection class:	IP66
Protection class:	II
Slots:	4
Housing colour:	grey
Housing material:	polystyrene
Dimensions (LxWxH):	180 mm x 130 mm x 63 mm
Ambient temperature:	-5 °C to +35 °C
Item number:	NB-IoT-Range-1 für 1 Leuchte NB-IoT-Range-2 für 2 Leuchten NB-IoT-Range-4 für 4 Leuchten



The easy-NB Range-Extender enables connectivity of easy-NB emergency luminaires, even if there is no network coverage by Deutsche Telekom in the building.

SIGNALING PANEL FMS-NB-IoT-UP

TECHNICAL DATA

Power supply:	230V AC
Pot-free input:	1 x
Pot-free output:	1 x
Colour:	white
Switch range:	GIRA E55
Key-operated switch:	switching of during closing times
Status reports:	mains operation, battery operation, malfunction
Item number:	FMS-NB-IoT-UP



The signaling panel offers the possibility of a central status display directly in the building. It is installed in a double flush-mounted switch box.

SIGNALING PANEL FMS-NB-IoT-AP

TECHNICAL DATA

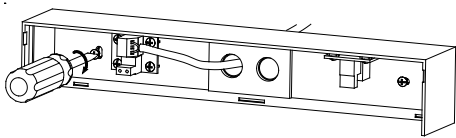
Power supply:	230V AC
Pot-free input:	1 x
Pot-free output:	1 x
Colour:	white
Switch range:	GIRA E55
Key-operated switch:	switching of during closing times
Status reports:	mains operation, battery operation, malfunction
Item Number:	FMS-NB-IoT-AP



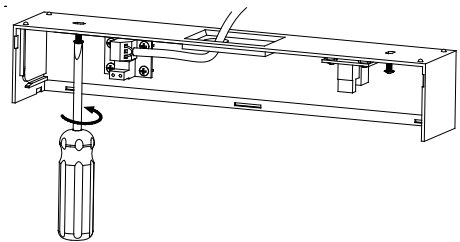
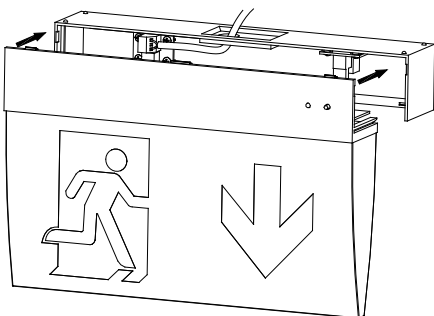
The alarm panel offers the possibility of a central status display directly in the building. It is installed in a double surface-mounted switch box.



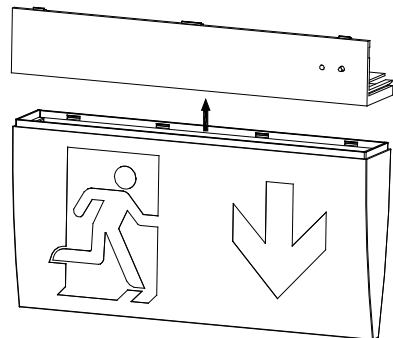
ONE BUILDING - 2 MOUNTING OPTIONS



WALL MOUNTING



CEILING MOUNTING



F1U383M | +EASY.UP.NB-IOT

TECHNICAL DATA

Recognition distance:	27 m
Degree of protection:	IP54
Protection class:	II
Battery:	LiFePO ₄
Bridging time:	3h / 8h switchable
Lamp:	Power-LED
Mounting type:	universal (wall/ceiling)
Housing material:	plastic
Luminaire dimensions:	283 mm x 50 mm x 186 mm (L x B x H)
Color:	white
Operating temperature:	-5°C to 35°C

Item number: F1U383M
+EASY.UP.NB-IOT



S1U383M | +EASY.UP.NB-IOT

TECHNICAL DATA

Recognition distance:	27 m
Degree of protection:	IP54
Protection class:	II
Battery:	LiFePO ₄
Bridging time:	3h / 8h switchable
Lamp:	Power-LED
Mounting type:	universal (wall/ceiling)
Housing material:	plastic
Luminaire dimensions:	283 mm x 50 mm x 198 mm (L x B x H)
Color:	white
Operating temperature:	-5°C to 35°C

Item number: S1U383M
+EASY.UP.NB-IOT



ULU383M | +EASY.UP.NB-IOT

TECHNICAL DATA

Recognition distance:	16 m
Degree of protection:	IP54
Protection class:	II
Battery:	LiFePO ₄
Bridging time:	3h / 8h switchable
Lamp:	Power-LED
Mounting type:	universal (wall / ceiling)
Housing material:	plastic
Luminaire dimensions:	360 mm x 592 mm x 125 mm (L x B x H)
Color:	white
Operating temperature:	-5°C to 35°C

Item number: ULU383M
+EASY.UP.NB-IOT



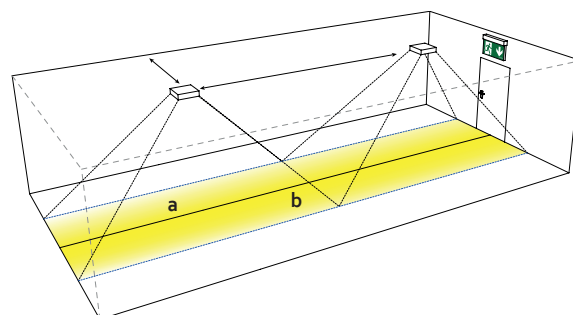


reddot award
product design

LIGHTING DATA

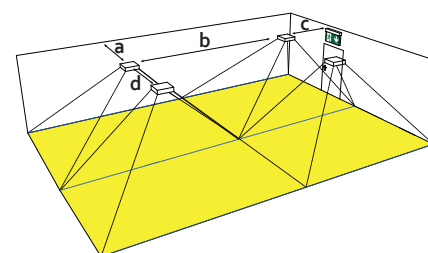
Escape Lens

Mounting height in meters	a		b	
	BSU-15	BRE-15	BSU-15	BRE-15
2,5	5,02	5,13	11,54	11,78
3,0	5,55	5,64	12,65	12,87
3,5	5,98	6,06	14,15	14,35
4,0	6,32	6,16	15,50	15,70



Surface lens

Mounting height in meters	a		b		c		d	
	BSU-19	BRE-19	BSU-19	BRE-19	BSU-19	BRE-19	BSU-19	BRE-19
2,5	3,50	3,57	7,84	8,00	2,72	2,68	6,05	6,17
3,0	3,78	3,84	9,09	9,24	3,05	3,11	6,79	6,90
3,5	3,97	3,89	9,85	10,00	3,33	3,38	7,66	7,77
4,0	3,81	3,73	10,48	11,11	3,56	3,48	8,18	8,28



*approx. values; LDT files for your light calculation program can be found at www.akkufischer.de

BSU315M | BSU319M | +EASY.UP.NB-IOT

TECHNICAL DATA

Power of the LED:	1W
Luminous flux	
- BSU315:	132 lm
- BSU319:	127 lm
Degree of protection:	IP42
Protection class:	II
Operating rating period:	3 h
Housing material:	plastic
Luminaire dimensions:	78 mm x 78 mm x 7 mm (L x B x H)
Electronics dimension:	195 mm x 44 mm x 32 mm (L x B x T)
Mounting type:	Ceiling installation
Item number:	BSU315M +EASY.UP.NB-IOT BSU319M +EASY.UP.NB-IOT



BSU315M Escape Lens
BSU319M FArea illumination (anti panic)

BRE315M | BRE319M | +EASY.UP.NB-IOT

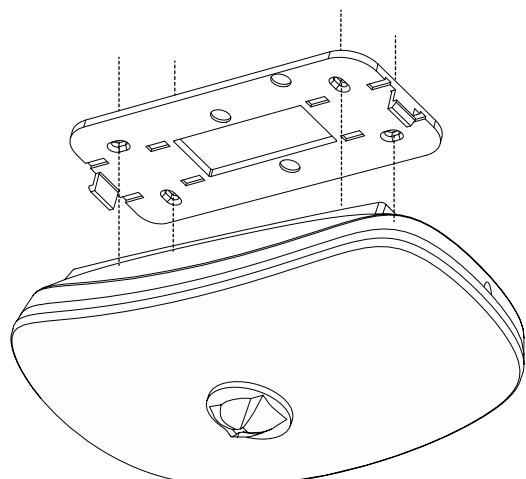
TECHNICAL DATA

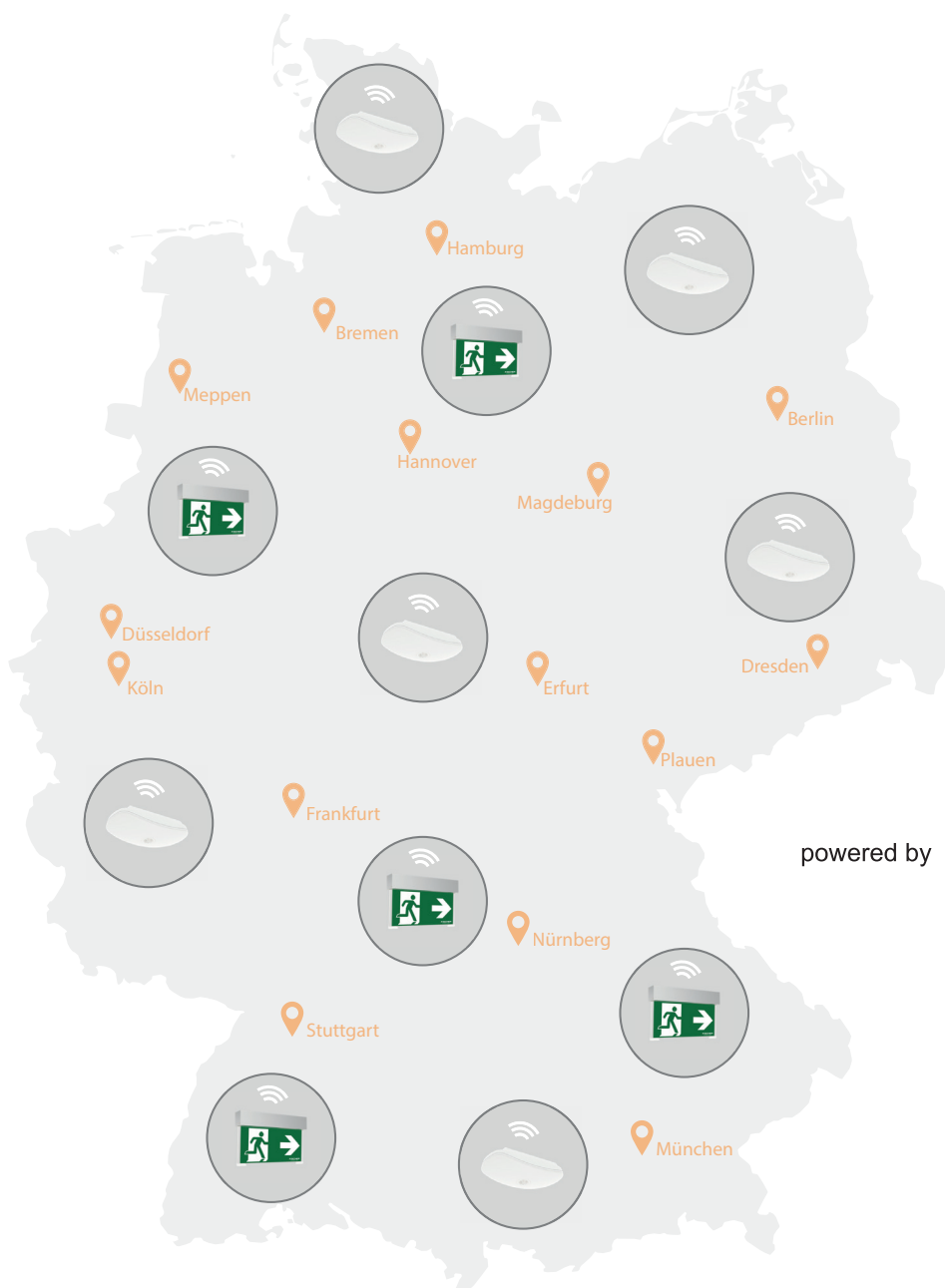
Power of the LED:	1W
Luminous flux	
- BRE315:	132 lm
- BRE319:	127 lm
Degree of protection:	IP42 / IP20 (Electronic)
Protection class:	II
Operating rating period:	3 h
Housing material:	Sheet steel, powder coated
Luminaire dimensions:	90 mm x 90 mm x 34,5 mm (L x B x H)
Hole cutout:	68 mm
Minimum installation depth:	30 mm
Electronics dimension:	195 mm x 44 mm x 32 mm (L x B x T)
Mounting type:	Ceiling installation
Item number:	BRE315M +EASY.UP.NB-IOT BR9M +EASY.UP.NB-IOT



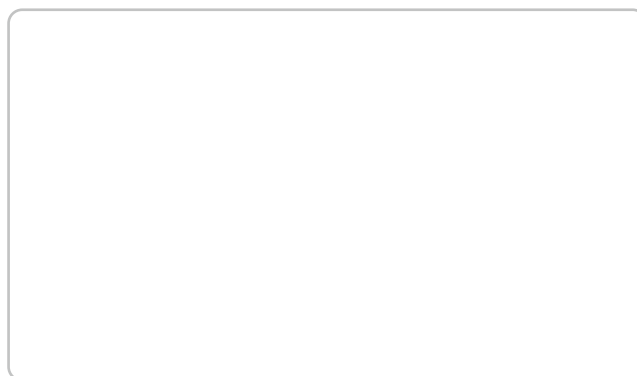
BRE315M Escape Lens
BRE319M Area illumination (anti panic)

SIMPLE BSU CLICK MOUNTING





powered by 



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