The Beghelli Group

Beghelli Präzisa GmbH has developed to become one of the leading enterprises in the market segment of emergency lighting. During this time it sets the pace of the market by way of innovative technology and functional design.

Beghelli Präzisa is since 2001 a member of the Beghelli Group. The group comprises more than 10 companies in Europe, America, and Asia. The activities of theBeghelli group focus on the development, manufacturing and sales of products for general and emergency lighting, industrial and commercial security systems, and other commercial products.

Our products

Our product portfolio comprises exit sign and emergency luminaires, self-contained power packs, group and central battery systems, exit sign and emergency luminaires for external power supply, as well as monitoring and control systems. The high standards of our luminaires, devices, and systems reflect our expertise in the field of functional and cost-effective emergency lighting. This is backed by ongoing new developments and improvements. Thereby, the integration of new technologies and materials ensures a quick response to varying market requirements. The result is a continuous flow of innovative products, features, and styles.

Examples to be mentioned are the emergency luminaires „MetricaLED" with facetted reflectors optimised for LEDs and Autotest monitoring system. In particular the series LOGICA and LOGICA FM offer outstanding lighting results and operate either as a stand alone unit with Autotest features or as part of a system with the Centraltest functions. The connection between the luminaires and the control modules may be a DALI compatible bus wiring or a wireless communication based on LOGICA FM modules.

Monitoring and control modules 7


GSM-Interface
13

LON-Bus-Interface
13


USB/ RS485 Interface
13

Ethernet/ RS485 Interface
14

EIB Logica
14


Logica-Printer
14


Logica FM
15

Logica Visual
15

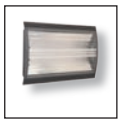

Logica Z
16


Logica S
16


Logica FM
17


INIBIT
17

Exit sign and emergency luminaires 19


IP40 IP65 T5
Arcus V
20


IP40 T5
Design
21


IP40 T5
Kubus
22

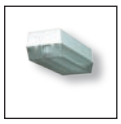

IP20 T5
Intos
23


IP20 TC-DEL-LP
Crater
24

IP40 IP65 LED
MetricaLED
25


IP65 T5
Logica
26


IP40 T5
Aestetica
27


IP54 T5
Indus
28


IP40 IP65 T5
Pratica Tuttovetro
29


IP66 T8
Leader
30


IP54 QT-Lp
Strahler
31


IP40 QT-Lp CO-Lp
Scout
32


IP32 IP65
NVG
33


IP20
Inverter
34


IP40 T5
Arcus V
35


IP40 T5
Design
36


IP40 T5
Kubus
37


IP20 T5
Dispos
39


IP20 LED
Dispos-LED
41

IP54 T5
Maxima
42

IP54 LED
Maxima LED
43


IP40 IP65 T5
Tuttovetro Bandiera
44

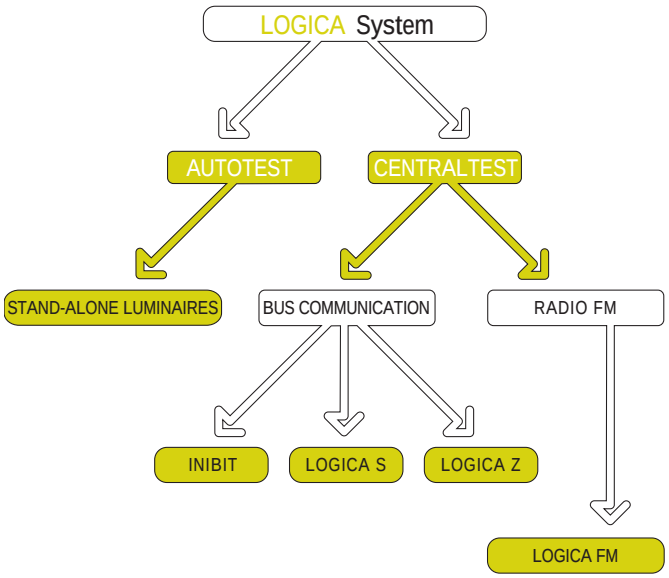

IP54 T5
Indus
45


IP42 TC-SEL-Lp
Quader
46

Monitoring and control modules

LOGICA monitoring and control system

LOGICA is a modular system for cost-effective monitoring and control of self contained emergency lighting installations. It is designed to ensure the protective function of emergency lighting installations. Moreover, the LOGICA system ensures the testing of the emergency lighting system as according to different local or national regulations. LOGICA can be installed as an auto test and central test system.



Autotest

In the auto test mode, exit sign, emergency luminaires, as well as power packs are self-contained components of the emergency lighting installation without any connection to remote monitoring and control equipment. The duration can be set to 1 h or 3 h by coding at the luminaire or at the device. All luminaires or devices can be operated in maintained or non-maintained mode. An integrated test functionality automatically executes function tests on a weekly basis and duration tests every 6 months. A multicolour LED signals the operation mode (mains or battery mode, charging, switching to battery mode blocked or test triggering blocked) or irregularities (lamp, battery or charging fault).

Centraltest

In the central test mode, monitoring and control of the emergency lighting installation is centralised. For this purpose, exit sign, emergency luminaires, or power packs are connected either to a LOGICA-S monitoring and control station or to an INIBIT control module. Data or telecommunication networks enable to implement a monitoring and control system for emergency lighting systems from several buildings. Communication between the exit sign, emergency luminaires, or power packs and the LOGICA-S monitoring and control station is based on a DALI-compatible bus. This can also be used to control the luminaires of the general lighting installation featuring a DALI interface. The connection to LOGICA-S monitoring and control station is via a double-wire cable or by radio.

As a maximum, 127 exit sign, emergency luminaires, or power packs with a LOGICA interface can be connected to a single LOGICA-S monitoring and control station or to a single INIBIT control module. For details please contact your local sales office. The LOGICA-S control station can be connected to a PC by using the RS232/RS485 interface. The LOGICA-S module can also control general lighting luminaires with the DALI interface. For centralised monitoring and control in large-scale buildings, it is possible to connect up to 30 LOGICA-S units with a LOGICA-Z central monitoring and control station. The LOGICA-Z central monitoring and control station can also be connected directly to a monitoring PC. For the PC, the LOGICA-Monitoring software is available. Moreover, a link to LON or Ethernet or integration into a building management system is possible.

All exit sign, emergency luminaires, or power packs with the LOGICA interface have a unique identification number. It is no longer needed to manually set the address at the luminaire or device. LOGICA-S monitoring and control modules detect this unique identification number and automatically register the address. Supplied labels with the identification number (figure and bar code) enable to link the luminaires address with the identification number for the documentation.

LOGICA-S and LOGICA-Z monitoring and control modules

Monitoring and control parameters

- Program the duration (1h or 3h) individually for each luminaire/device.
- Program the specification (maintained or non-maintained mode) individually for each luminaire/device.
- Automatically allocate all exit sign, emergency luminaires, or power packs featuring a LOGICA interface to the control group ALL and LOGICA.
- Allocate exit sign, emergency luminaires, or power packs featuring a LOGICA interface to any of the control groups from 1 to 16.
- Allocate exit sign, emergency luminaires, or power packs featuring a LOGICA interface to the LOGICA monitoring group.
- Allocate exit sign and emergency luminaires or power packs featuring a LOGICA interface to the monitoring groups 1 or 2.
- Automatically allocate all general lighting luminaires featuring a DALI interface to the control groups ALL and DALI.
- Allocate general lighting luminaires featuring a DALI interface to any of the control groups from 1 to 16.
- Programme up to 16 different lighting scenarios with different switch and dim functions.
- Allocate control groups to lighting scenarios.
- Manually activate scenarios at the LOGICA central unit or via four control circuits.

Monitoring functions

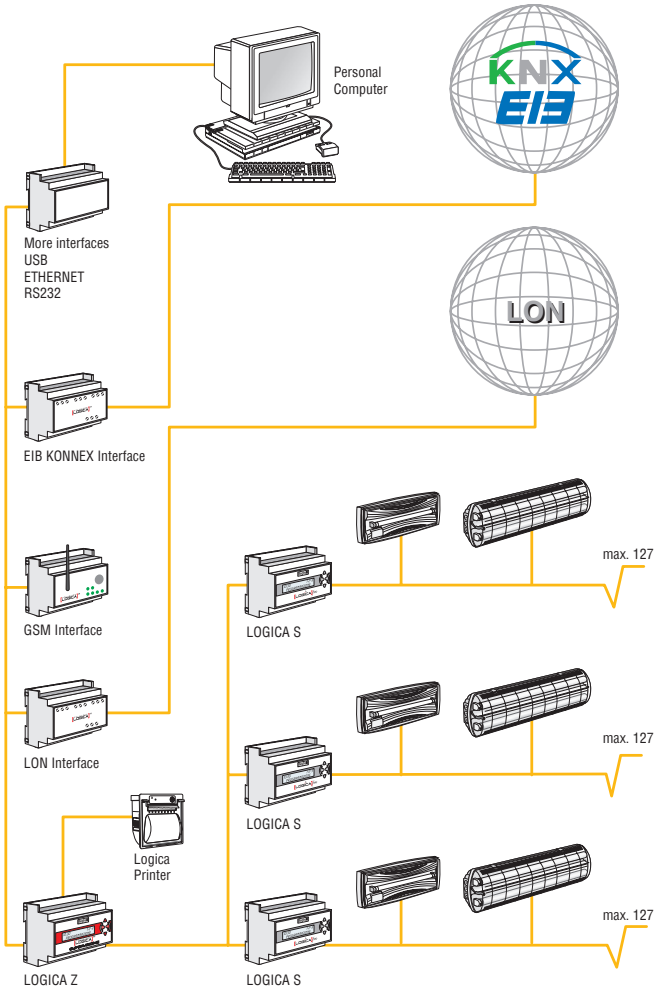
- Parameters for function and duration tests.
- Automatic triggering of function and duration tests: simultaneously for the LOGICA monitoring group or time-staggered for the monitoring groups 1 and 2.
- Manual triggering of function and duration tests separately for each exit sign, emergency luminaire or power pack, or for the monitoring groups LOGICA, 1 or 2.
- Manual control of the emergency mode suppression.

Control functions

- Manual control of emergency and general lighting in mains mode, individually or within the control groups ALL, LOGICA, DALI and 1 to 16.
- Manual dimming of the emergency and general lighting in mains mode, individually or within the control groups ALL, LOGICA, DALI and 1 to 16.

Signalling functions

- Operating conditions of the emergency lighting.
- Irregularities of the emergency lighting system.
- Tests of the emergency lighting system.
- Storage of test results for 2 years (LOGICA-Z).



Advantages of automatic control, monitoring and recording

The European norm EN 50172 requires a continuous test report to be completed by a person nominated by the owner of the plant. This test report has to be available at any time for authorised persons.

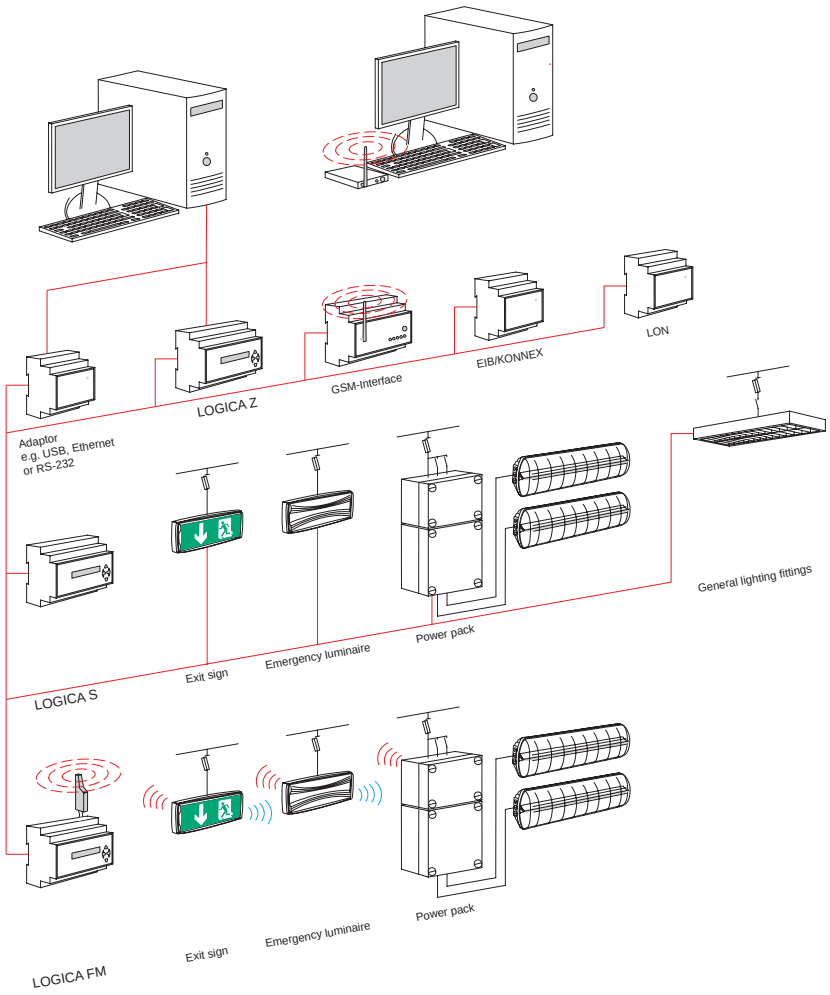
The norm requires a weekly functional test by simulation of battery operation for the whole installation. In addition an annual duration test has to be executed. All test results have to be recorded in the test report. This can be done manually or by an automatic test equipment according to EN 62034.

The following options may be chosen:

1) Manual tests and recording of results
   The weekly functional test requires either switching off the mains and checking the function of every fitting by an authorised person or pushing the test switch on every fitting, provided the fittings are equipped with. The annual duration test requires to switch off the mains for the test period.
   The entry into the test report is being done manually.

2) Automatic tests and manual test report recording (AUTOTEST)
   The fittings have an automatic test function and the results of the tests are shown by either several different LEDs or by one multicolour LED.
   The entry into the test report is being done manually.

3) Automatic tests and recording of the results (CENTRALTEST)
   The fittings have an automatic test function and report the results to a central control and monitoring module. This central module initiates all tests and stores the results for a minimum of 2 years.
   The communication between the fittings and the central module may be either through a bus wire (2 wires DALI compatible) or via radio communication.



LOGICA FM System

The installation of a LOGICA module enables the wireless control and monitoring of all luminaires and appliances within the LOGICA product range.

Long distance range with low transmission power
The radio signal of the LOGICA system operates with very low power (< 10 mW) which excludes electro-magnetic disturbance of any other system operating in the vicinity of LOGICA FM.

The transmission power of the FM signal equals to 1% of the power of a mobile phone and the operating frequency is approx. 2,4 GHz.

All products of the LOGICA FM range are compliant with the recommendation of the European Union ERC/REC 70-03.

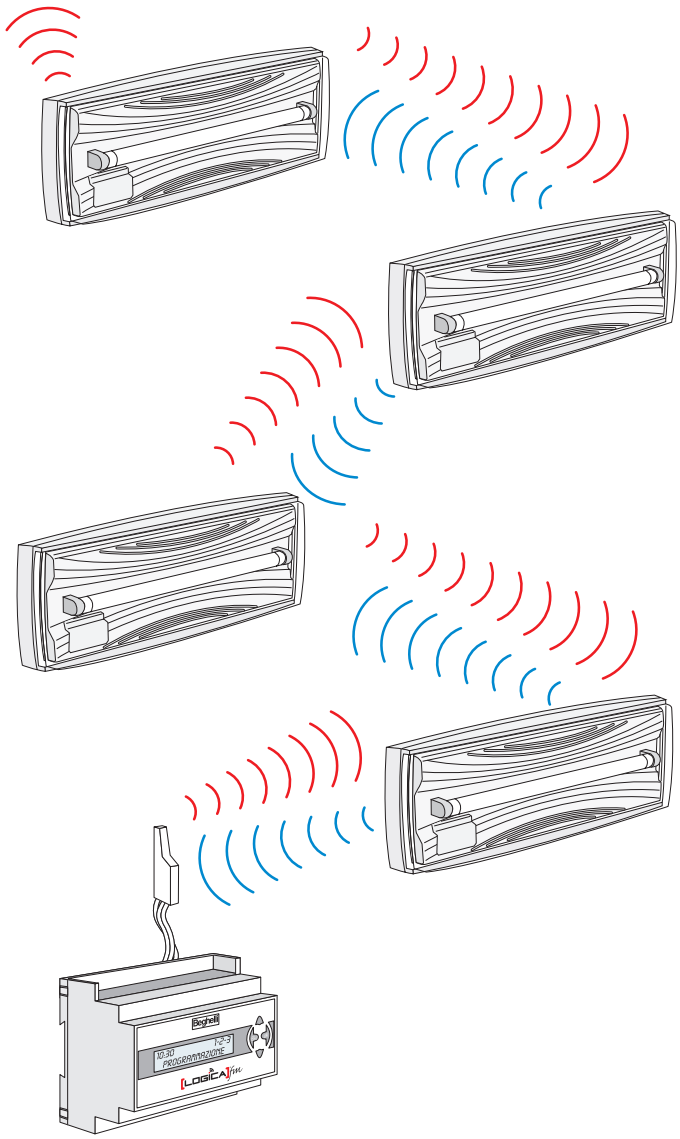
Automatic search for the best connection
During the first start of the system the LOGICA central module receives identification signals and stores the addresses from all fittings and appliances.

LOGICA is a self-learning system that keeps the connection to all fittings and appliances via the shortest possible distance.

The signal-repetition system developed by Beghelli ensures long distance range even with low transmission power. The result is a perfect quality of the signals and the communication between all LOGICA components via the best route.

Infinite number of luminaires
The LOGICA central module is able to monitor and control up to 992 luminaires or appliances. By combining a PC with LOGICA VISUAL software and numerous LOGICA central modules the number of fittings and appliances is almost unlimited.

Every luminaire and every appliance transmits the signal without any loss or deterioration.

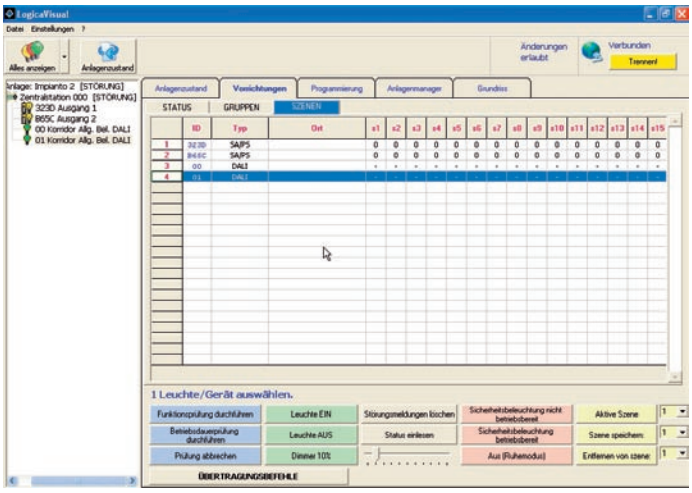


LOGICA FM central module

visual LOGICA®
Monitoringsoftware

Logica Visual

The LOGICA Monitoring software enables centralised monitoring and control of complex emergency lighting systems, e.g. for large buildings or enterprises with many buildings at a single or several sites.

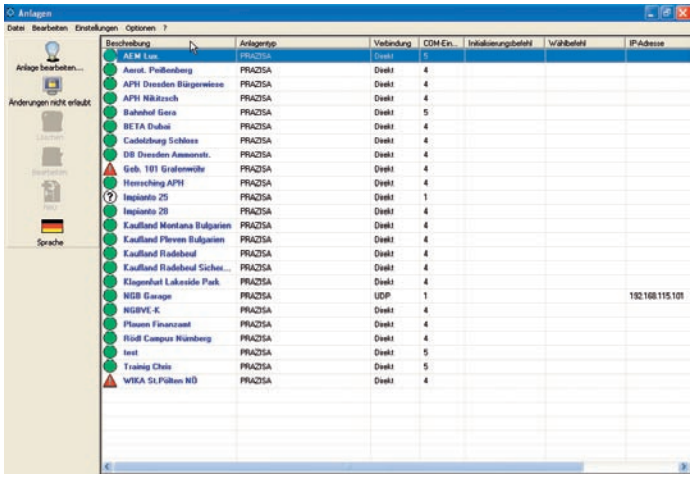


Communication to a PC running the LOGICA Monitoring software can be realised by:
- LOGICA-S plus interface RS232/RS485 or
- LOGICA-S plus LOGICA-Z
- or wireless by connecting a GSM- Interface to LOGICA-S or LOGICA-Z.

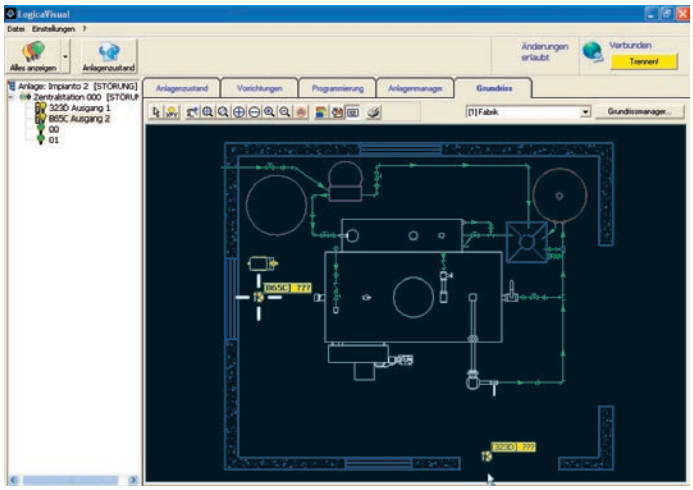
Input and output of monitoring and control parameters
- Numerically and graphically allocation of exit sign, emergency luminaires, or power packs to locations on building plans and luminaire/device lists.
- Import of building plans as dxf or dwg format files.
- Program the duration (1h or 3h) separately for each luminaire/device.
- Program the specification (maintained or non-maintained mode) separately for each luminaire/device.
- Program the parameters for function and duration tests.
- Allocation of exit sign, emergency luminaires, or power packs featuring a LOGICA interface to the control groups 1 to 16 without.
- Allocation of exit sign and emergency luminaires or power packs featuring a LOGICA interface to monitoring groups 1 or 2.
- Allocation of general lighting luminaires featuring a DALI interface to the control groups 1 to 16.
- Program up to 16 different lighting scenarios with different switch and dim control functions.
- Allocation of control groups to lighting scenarios.

Monitoring functions
- Manual triggering of function and duration tests separately for each exit sign, emergency luminaire or power pack, or for the monitoring groups LOGICA, 1 or 2.
- Manual control of the emergency mode suppression

Control functions
- Manual control of emergency and general lighting in mains mode, individually or within the control groups ALL, LOGICA, DALI and 1 to 16.
- Manual dimming of the emergency and general lighting in mains mode, individually or within the control groups ALL, LOGICA, DALI and 1 to 16.
- Manually activate scenarios at the module or via four control inputs



Visualisation functions
- Numerically and graphically indicate operational conditions and irregularities of exit sign and emergency luminaires/power packs:
- Luminaire/device configurations
- Operating mode (mains/battery mode)
- Emergency mode suppression (on/off)
- Maintained mode (on/off)
- Dimming (%)
- Irregularities (charging/battery/lamp)
- Tests
- Indicate operational conditions and irregularities in online mode



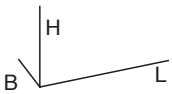
GSM-Interface

Module for communication between LOGICA-Z or LOGICA-S monitoring and control modules and a PC running the LOGICA Monitoring software. Connection via the GSM network.

Technical details see pages 110 - 117

Technical data

Mounting: DIN-rail (9 modules)
Body: Plastic
Protection: IP 20
Electrical class: II



• Dimensions (mm) •		
L	B	H
160	75	90

IP20 230V 50Hz CE

LOGICA SOLUTION

Order code	Duration	Battery type	Battery voltage	Battery capacity
FB16306	1 h	NiCd battery	7,2 V	0,75 Ah

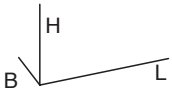
LON-Bus-Interface

Module for communication with a building management system via LON bus.
Control of: Maintained mode ON/OFF, function test triggering.
Signalling of: Emergency mode suppression ON/OFF, mains mode, battery mode, mains failure on main distribution board (phase L1, L2, and L3), mains failure on sub distribution board, group fault, charge fault, battery fault, luminaire fault, bus fault, deep discharge.

Technical details see pages 110 - 117

Technical data

Mounting: DIN-rail (6 modules)
Body: Plastic
Protection: IP 20
Electrical class: II



• Dimensions (mm) •		
L	B	H
105	75	90

230V 50Hz CE

LOGICA SOLUTION

Order code
FB12140

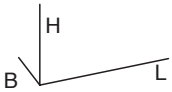
USB/RS485 Interface

Module used to connect a group or central battery system with a PC running the MULTI-CONTROL monitoring software.

Technical details see pages 110 - 117

Technical data

Mounting: DIN rail
Body: Metal
Electrical class: II



• Dimensions (mm) •		
L	B	H
150	75	26

IP20 230V 50Hz CE

LOGICA SOLUTION

Order code
FB16319

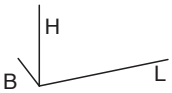
Ethernet/RS485 Interface

Interface for connection of a PC running the software LOGICA VISUAL to an Ethernet.

Technical details see pages 110 - 117

Technical data

Body: Plastic
Electrical class: II



• Dimensions (mm) •		
L	B	H
87	56	30

230V 50Hz CE

LOGICA SOLUTION

Order code
FB12135

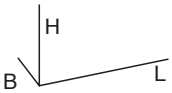
EIB Logica

Interface for connection to a building management system via EIB/KONNEX.
Control of: Maintained mode ON/OFF, function test triggering.
Signalling of: Emergency mode suppression ON/OFF, mains mode, battery mode, mains failure on main distribution board (phase L1, L2, and L3), mains failure on sub distribution board, group fault, charge fault, battery fault, luminaire fault, bus fault, deep discharge.

Technical details see pages 110 - 117

Technical data

Mounting: DIN-rail (6 modules)
Body: Plastic
Protection: IP 20
Electrical class: II



• Dimensions (mm) •		
L	B	H
160	75	90

230V 50Hz CE

LOGICA SOLUTION

Order code
FB12140

Logica-Printer

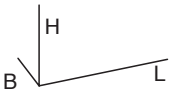
Printer module which connects with LOGICA-S monitoring and control station or with LOGICA-Z central monitoring and control station to print:

- Irregularity reports
- Results of function tests
- Results of duration tests

Technical details see pages 110 - 117

Technical data

Paper type: Thermopaper
Paper width: 58 mm
Mounting: DIN-rail (6 modules)
Body: Plastic
Protection: IP 20
Electrical class: I

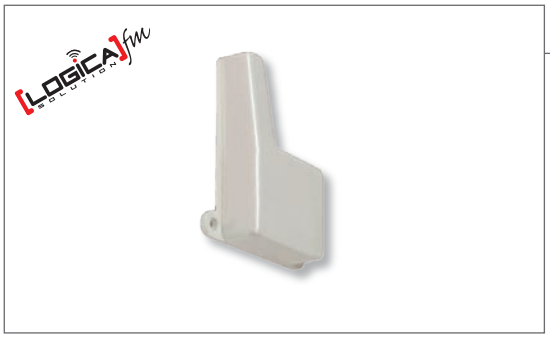


• Dimensions (mm) •		
L	B	H
85	53	85

IP20 230V 50Hz CE

LOGICA SOLUTION

Order code
FB16302



Logica FM

Module for wireless communication between exit sign, emergency luminaires, or power packs, and a LOGICA-S-FM monitoring and control station. Accommodated within the luminaires/devices (for luminaires/devices with plastic body) or attached to the luminaires/devices (for luminaires/devices with metallic body). Connection to luminaires/devices via cable with plug-type connector (cable length: 250 mm).

Technical details see pages 110 - 117

Important: not suitable for installation in luminaires with metal body

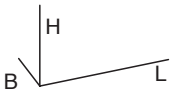
Technical data

Mounting: Surface mounting or installation in luminaires

Body: Plastic

Protection: IP 20

Electrical class: I



• Dimensions (mm) •		
L	B	H
70	10	40

230V
50Hz
CE

Order code

FB16304

Logica Visual

Software for centralised control and monitoring of complex emergency lighting installations. Communication between the PC and the monitoring and control module LOGICA-S via USB/RS485 interface or GSM interface via telecommunication network or via LOGICA-Z module.

Order code

SWB16310	SOFTWARE LOGICA VISUAL

Logica Z

Module for central monitoring and control of max. 31 LOGICA-S monitoring and control modules. Logica -Z is able to control max. 991 luminaires. All functional and duration tests are stored for 2 years in an integrated test report. Communication with LOGICA-S modules via a twin-wire screened cable. Parameter input and indication via front panel with 2x16 character display and 4 control buttons.
Interface: RS232 interface for PC connection. RS 485 interface for connection with the LOGICA-PRINTER, RS485/USB2.0 interface or GSM interface LOGICA-GSM.

Technical details see pages 110 - 117

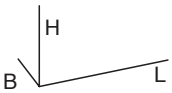
Technical data

Mounting:
DIN-rail (9 modules)

Body material:
Plastic

Protection:
IP 20

Electrical class: I



• Dimensions (mm) •		
L	B	H
160	75	90

230V
50Hz
CE

LOGICA SOLUTION

Order code	Duration	Battery type	Battery voltage	Battery capacity
FB16305	1 h	NiCd battery	7,2 V	0,75 Ah

Logica S

Module for monitoring and control of max. 128 exit signs, emergency luminaires, or power packs featuring a LOGICA interface, or general lighting luminaires with DALI interface. Connection via twin-wire cable (LOGICA-S) or via radio (LOGICA-FM).
Parameter input and indication via front panel with 2x16 character display and 4 control buttons.
Control inputs: 4 switching inputs, isolated.
Interface RS485: connection of LOGICA-PRINTER or LOGICA-Z module.
Connection to a PC via interface RS485/RS232 or RS 485/USB2.0.

Technical details see pages 110 - 117

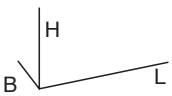
Technical data

Mounting:
DIN-rail (9 modules)

Body material:
Plastic

Protection:
IP 20

Electrical class: I



• Dimensions (mm) •		
L	B	H
160	75	90

230V
50Hz
CE

LOGICA SOLUTION

Order code	Duration	Battery type	Battery voltage	Battery capacity
FB16300	1 h	NiCd battery	7,2 V	0,75 Ah

Logica FM

Module for wireless communication between max. 990 exit sign, emergency luminaires/power packs or fittings with DALI interface of the general lighting installation. AUTO-addressing of all fittings with individual identity code by radio communication. General lighting fittings communicate with LOGICA-FM with the DALI-FM module.
Parameter input and indication via front panel with 2x16 character display and 4 control buttons.
Control inputs: 4 switching inputs, isolated.
Interface RS485: connection of LOGICA-PRINTER or LOGICA-Z module. Connection to a PC via interface RS485/232 or RS 485/USB2.0.

Technical details see pages 110 - 117

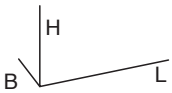
Technical data

Mounting:
DIN-rail (9 modules)

Body material:
Plastic

Protection:
IP 20

Electrical class: I



• Dimensions (mm) •		
L	B	H
160	75	90

230V 50Hz CE

LOGICA fm SOLUTION

Order code	Duration	Battery type	Battery voltage	Battery capacity
FB16303	1 h	NiCd battery	7,2 V	0,75 Ah

INIBIT

Module to control max. 127 exit sign and emergency luminaires/power packs featuring a LOGICA interface. Connection via a twin-wire cable.

Technical details see pages 110 - 117

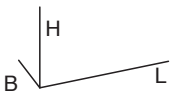
Technical data

Mounting:
DIN-rail (9 modules)

Body material:
Plastic

Protection:
IP 20

Electrical class: I



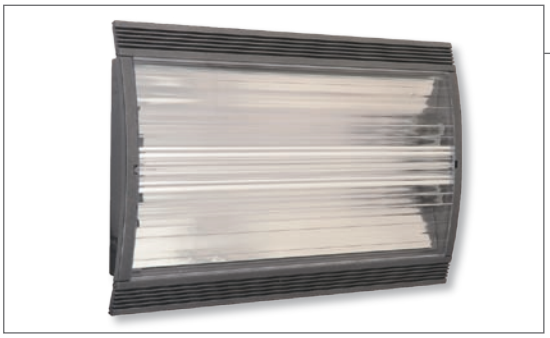
• Dimensions (mm) •		
L	B	H
160	75	90

230V 50Hz CE

LOGICA SOLUTION

Order code	Duration	Battery type	Battery voltage	Battery capacity
FB16301	5 h	NiCd battery	7,2 V	0,75 Ah

Exit sign and emergency luminaires



Arcus V

Description: Emergency luminaire in elegant style with convex body. Front surface designed as a pane, projecting on all sides. Light distribution by mirror reflector and transparent cover with longitudinal prisms.
Special features: Architectural look, sleek design, wide beam light distribution, high light output ratio, also available as exit sign luminaire.

Technical details see pages 110 - 117

Technical data

Mounting:
Wall or ceiling mounted

Body:
Die-cast aluminium and extruded aluminium, anthracite RAL 9007

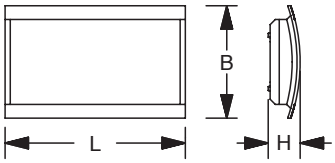
Diffuser:
Polycarbonate with longitudinal prisms

Reflector:
Specular aluminium

Mains supply:
198 V - 254 V / 50 Hz

Ambient temperature:
0 to + 40 °C

Specification:
Maintained or non maintained mode



W	• Dimensions (mm) •		
	L	B	H
8	348	217	62

IP40 T5 230V 50Hz

LOGICA SOLUTION

Order code	Lamp	Duration	Battery type	Battery voltage	Battery capacity	Ballast lumen factor (BLF)	Standard	Auto-test	Central-test
N90287L	T5 8 W	1 h / 3 h	NiCd battery	7,2 V	1,7 Ah	91% (1h) / 38% (3h)		x	x

For Logica-FM fittings please order FM-module (FB16304) separately

Order code	Lamp	Duration	Battery type	Battery voltage	Battery capacity	Ballast lumen factor (BLF)	Standard	Auto-test	Central-test
NB90287	T5 8 W	1 h	NiCd battery	4,8 V	1,2 Ah	43%	x		
NB90288	T5 8 W	3 h	NiCd battery	4,8 V	2,2 Ah	33%	x		

Standard type supplied with test switch

Design

Description: Emergency luminaire in functional style, consisting of semi-circular sections and flat end caps. Light distribution by mirror reflector and transparent cover with longitudinal prisms.
Special features: Functional look, extremely sleek design, wide beam light distribution, high light output ratio, also available as an exit sign luminaire.

Technical details see pages 110 - 117

Technical data

Mounting:
Wall or ceiling mounted

Body:
Sheet steel, white RAL 9003[1)]

Diffuser:
Plastic with longitudinal prisms

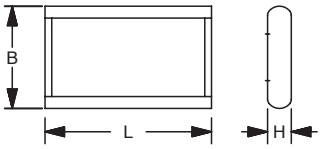
Reflector:
Specular aluminium

Mains supply:
198 V - 254 V / 50 Hz

Ambient temperature:
0 to + 40 °C

Specification:
Maintained or non maintained mode

1) Design with aluminium body available on request



W	• Dimensions (mm) •		
	L	B	H
8	386	237	55

IP40 T5 230V 50Hz

LOGICA SOLUTION

Order code	Lamp	Duration	Battery type	Battery voltage	Battery capacity	Ballast lumen factor (BLF)	Standard	Auto-test	Central-test
NM90548L	T5 8 W	1 h / 3 h	NiCd battery	7,2 V	1,7 Ah	91% (1h) / 38% (3h)		x	x

For Logica-FM fittings please order FM-module (FB16304) separately

Order code	Lamp	Duration	Battery type	Battery voltage	Battery capacity	Ballast lumen factor (BLF)	Standard	Auto-test	Central-test
NM90548	T5 8 W	1 h	NiCd battery	4,8 V	1,2 Ah	43%	x		
NM90549	T5 8 W	3 h	NiCd battery	4,8 V	2,2 Ah	33%	x		

Standard type supplied with test switch

Kubus

Description: Emergency luminaire, consisting of flat sections with folded corners. Light distribution by mirror reflector and cover with longitudinal prisms. Special features: Functional look, also available as exit sign luminaire.

Technical details see pages 110 - 117

Technical data

Mounting:
Wall or ceiling mounted

Body:
Sheet steel, white RAL 9003[1)]

Diffuser:
Plastic with longitudinal prisms

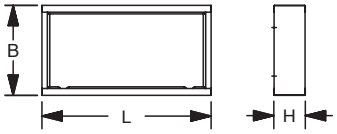
Reflector:
Specular aluminium

Mains supply:
198 V - 254 V / 50 Hz

Ambient temperature:
0 to + 40 °C

Specification:
Maintained or non maintained mode

1) Design with aluminium body available on request



W	• Dimensions (mm) •		
	L	B	H
8	376	200	70

IP40 T5 230V 50Hz

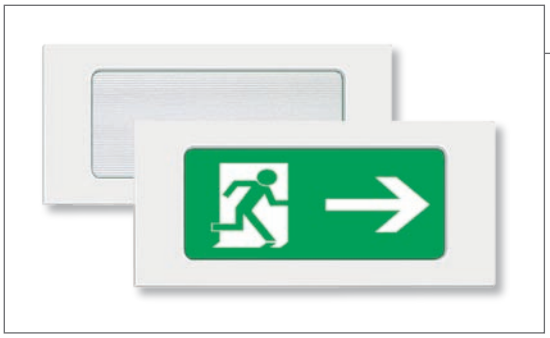
[LOGICA SOLUTION]

Order code	Lamp	Duration	Battery type	Battery voltage	Battery capacity	Ballast lumen factor (BLF)	Stan-dard	Auto-test	Central-test
NM90678L	T5 8 W	1 h / 3 h	NiCd battery	7,2 V	1,7 Ah	91% (1h) / 38% (3h)		x	x

For Logica-FM fittings please order FM-module (FB16304) separately

Order code	Lamp	Duration	Battery type	Battery voltage	Battery capacity	Ballast lumen factor (BLF)	Stan-dard	Auto-test	Central-test
NM90678	T5 8 W	1 h	NiCd battery	4,8 V	1,2 Ah	43%	x		
NM90679	T5 8 W	3 h	NiCd battery	4,8 V	2,2 Ah	33%	x		

Standard type supplied with test switch



Intos

Description: Emergency luminaire in industrial design with recessed box and opal diffuser fixed in white painted frame. Light distribution by aluminium reflector and opal diffuser. Single face exit signs available.
Special features: Designed for industrial areas, robust, shock proof.

Technical details see pages 110 - 117

Technical data

Mounting:
Recessed wall or ceiling mounting

Body:
Sheet steel white RAL 9003

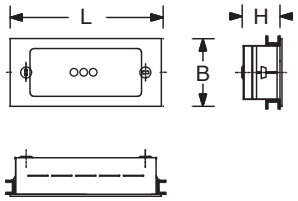
Diffuser:
Clear acrylic with prisms

Reflector:
Specular aluminium

Mains supply:
198 V - 254 V / 50 Hz

Ambient temperature:
0 to + 40 °C

Specification:
Maintained or non maintained mode



W	• Dimensions (mm) •			Version
	L	B	H	
8	385	170	95	1-side

T5 IP20 26m 230V 50Hz

Accessories to be ordered separately		
Order code 8W	Description	Article
E16266N	Exit sign pane	
E16267N	Exit sign pane	
E16268N	Exit sign pane	
E16265	Opal pane	

LOGICA SOLUTION

Order code	Lamp	Duration	Battery type	Battery voltage	Battery capacity	Ballast lumen factor (BLF)	Stan-dard	Auto-test	Central-test
N90400L	T5 8W	1h/3h	NiCd battery	7,2 V	1,7 Ah	91% (1h) / 38% (3h)		x	x

For Logica-FM fittings please order FM-module (FB16304) separately

Order code	Lamp	Duration	Battery type	Battery voltage	Battery capacity	Ballast lumen factor (BLF)	Stan-dard	Auto-test	Central-test
N90400	T5 8W	1h	NiCd battery	4,8V	1,2 Ah	43%	x		
N90401	T5 8W	3h	NiCd battery	4,8V	2,2 Ah	33%	x		

Crater

Description: Emergency luminaire in functional style, consisting of a round recessed or surface mounted box and specular aluminium reflector. Horizontal lamp orientation.
Special features: Functional look, emergency luminaires also available as general lighting luminaires.

Technical details see pages 110 - 117

Technical data

Mounting:
Recessed or ceiling mounting

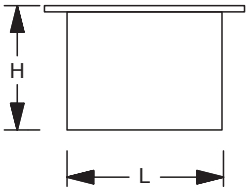
Body material:
Steel sheet, white (RAL 9003)

Reflector:
Specular aluminium

Mains supply:
198 V - 254 V / 50 Hz

Ambient temperature:
0 to + 40 °C

Specification:
Maintained or non maintained mode



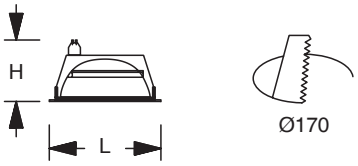
W	• Dimensions (mm) •		
	L	B	H
13	265	-	200

IP20 · TC-DEL-LP · 230V 50Hz

LOGICA SOLUTION

Order code	Lamp	Duration	Battery type	Battery voltage	Battery capacity	Ballast lumen factor (BLF)	Stan-dard	Auto-test	Central-test
Version for ceiling mounting									
N90062L	CFL 4 pin/4 lb 13 W	1 h / 3 h	NiCd battery	7,2 V	1,7 Ah	56% (1h) / 24% (3h)		x	x
For Logica-FM fittings please order FM-module (FB16304) separately									

Order code	Lamp	Duration	Battery type	Battery voltage	Battery capacity	Ballast lumen factor (BLF)	Stan-dard	Auto-test	Central-test
Version for ceiling mounting									
N90062	CFL 4 pin/4 lb 13 W	1 h	NiCd battery	4,8 V	1,2 Ah	27%	x		
N90063	CFL 4 pin/4 lb 13 W	3 h	NiCd battery	4,8 V	2,2 Ah	20%	x		
Standard type supplied with test switch									



W	• Dimensions (mm) •		
	L	B	H
13	190	-	105

LOGICA SOLUTION

Order code	Lamp	Duration	Battery type	Battery voltage	Battery capacity	Ballast lumen factor (BLF)	Stan-dard	Auto-test	Central-test
Version for recessed ceiling mounting									
N90060L	CFL 4 pin/4 lb 13 W	1 h / 3 h	NiCd battery	7,2 V	1,7 Ah	56% (1h) / 24% (3h)		x	x
For Logica-FM fittings please order FM-module (FB16304) separately									

Order code	Lamp	Duration	Battery type	Battery voltage	Battery capacity	Ballast lumen factor (BLF)	Stan-dard	Auto-test	Central-test
Version for recessed ceiling mounting									
N90060	CFL 4 pin/4 lb 13 W	1 h	NiCd battery	4,8 V	1,2 Ah	27%	x		
N90061	CFL 4 pin/4 lb 13 W	3 h	NiCd battery	4,8 V	2,2 Ah	20%	x		
Standard type supplied with test switch									

MetricaLED

Description: Emergency lighting luminaire with optical system designed for wall installation. Sleek, elegant body of white polycarbonate with clear cover. Light distribution by facetted mirror reflector. Innovative powerful 1 Watt light source with very long lifetime (Power LED).
Special features: Attractive design combined with robust and shockproof body. Versions with IP 40 or IP 65 protection available.

Technical details see pages 110 - 117

Technical data

Mounting:
Wall mounting

Body material:
Polycarbonate white

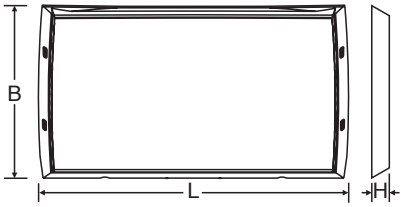
Cover:
Clear polycarbonate

Reflector:
Polycarbonate aluminised and welded with the cover

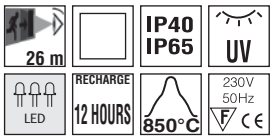
Mains supply:
198V – 254V / 50Hz

Ambient temperature:
0 to + 40 °C

Specification:
Maintained or non maintained mode



R-Watt	• Dimensions (mm) •			LED
	L	B	H	lumens
8	355	179	57	2 x 30 lm
18	355	179	57	2 x 58 lm
24	355	179	57	2 x 71 lm



Fitting supplied complete with		
Order code 8/18/24RW	**Description**	**Article**
FB12941	Exit signs (set with all 3 films)	

Accessories to be ordered separately		
Order code 8/18/24RW	**Description**	**Article**
FB12943	Kit for recessed installation	
FB3908	Wire guard	

Order code	Lamp	Reference power	Duration	Battery type	Battery voltage	Battery capacity	Lumens	Stan-dard	Auto-test	Central-test
IP40										
NB12908	LED 2x1W	8RW	1h	NiCd HT	6,0V	0,75Ah	60 lm		x	
NB12909	LED 2x1W	8RW	3h	NiCd HT	7,2V	1,7Ah	60 lm		x	
NB12924	LED 2x1W	18RW	1h	NiCd HT	6,0V	0,75Ah	116 lm		x	
NB12925	LED 2x1W	18RW	3h	NiCd HT	7,2V	1,7Ah	116 lm		x	
NB12932	LED 2x1W	24RW	1h	NiCd HT	4,8V	1,7Ah	142 lm		x	
NB12933	LED 2x1W	24RW	3h	NiCd HT	7,2V	1,7Ah	142 lm		x	
IP65										
NB12910	LED 2x1W	8RW	1h	NiCd HT	6,0V	0,75Ah	60 lm		x	
NB12911	LED 2x1W	8RW	3h	NiCd HT	7,2V	1,7Ah	60 lm		x	
NB12926	LED 2x1W	18RW	1h	NiCd HT	6,0V	0,75Ah	116 lm		x	
NB12927	LED 2x1W	18RW	3h	NiCd HT	7,2V	1,7Ah	116 lm		x	
NB12934	LED 2x1W	24RW	1h	NiCd HT	4,8V	1,7Ah	142 lm		x	
NB12935	LED 2x1W	24RW	3h	NiCd HT	7,2V	1,7Ah	142 lm		x	

Logica

Description: Exit sign and emergency luminaire in a functional style, consisting of a body with convex contours and a flat transparent cover. Duration of emergency mode to be chosen between 1h and 3 hrs. Light distribution by mirror reflector from aluminised plastic with complex shape. Single sided exit route sign (surface and recessed mounting on ceiling and walls). Luminaires supplied with three exit sign films and recess box.
Special features: Functional look, wide beam light distribution, high light output ratio, suited for exit route signalling or exit route lighting, choice of surface or recessed mounting, surface mounting via quick fix adapter with integrated bubble level.

Technical details see pages 110 - 117

Technical data

Mounting:
Surface and recessed wall mounting, surface and recessed ceiling mounting

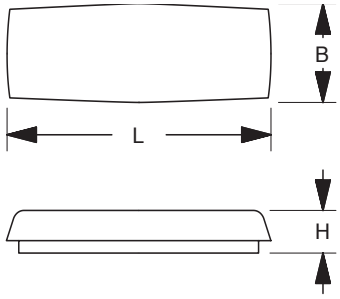
Body and diffuser:
Polycarbonate

Reflector:
Polycarbonate specular aluminised

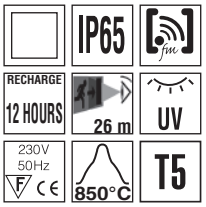
Mains supply:
198 V - 254 V / 50 Hz

Ambient temperature:
0 to + 40 °C

Specification:
Maintained or non maintained mode



W	• Dimensions (mm) •		
	L	B	H
8	406	147	63



Fittings are supplied complete with		
Order code	**Description**	**Article**
8W		
FB16909	Exit signs (set with all 3 films)	
FB12198	Kit for recessed installation	

Accessories to be ordered separately		
Order code	**Description**	**Article**
8W		
FB12194	Wire guard	

LOGICA SOLUTION

Order code	Lamp	Duration	Battery type	Battery voltage	Battery capacity	Ballast lumen factor (BLF)	Standard	Auto-test	Central-test
NB16311	T5 8W	1h / 3h	NiCd	7,2V	2,2Ah	91% (1h) / 38% (3h)		x	x

For Logica-FM fittings please order FM-module (FB16304) separately

Aestetica

Description: Exit sign and emergency luminaire in sleek design, consisting of a flat body and an oval transparent cover. Light distribution by white reflector. Single sided exit route sign (wall mounting). Luminaire supplied with three exit sign films.
Special features: Sleek design, suited for exit route signalling or exit route lighting.

Technical details see pages 110 - 117

Technical data

Mounting:
Wall or ceiling mounting

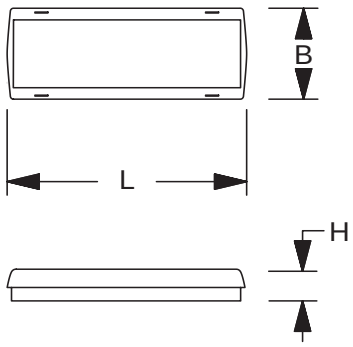
Body:
White polycarbonate

Diffuser:
Transparent polycarbonate

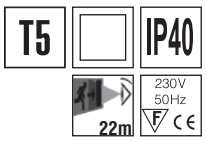
Reflector:
White polycarbonate

Mains supply:
198 V - 254 V / 50 Hz

Ambient temperature:
0 to + 40 °C



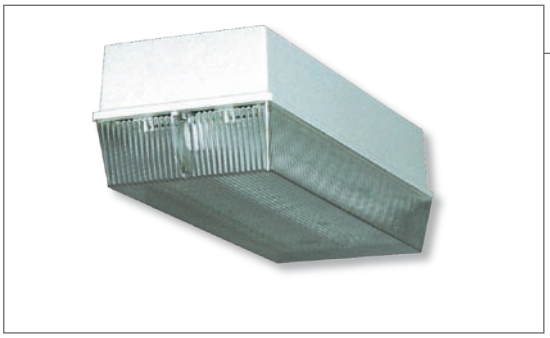
W	• Dimensions (mm) •		
	L	B	H
8	336	135	47



Fittings are supplied complete with		
Order code 8W	**Description**	**Article**
FB16905	Exit signs (set with all 3 films)	

Accessories to be ordered separately		
Order code 8W	**Description**	**Article**
FB3908	Wire guard	

Order code	Lamp	Duration	Battery type	Battery voltage	Battery capacity	Ballast lumen factor (BLF)	Stan-dard	Auto-test	Central-test
For maintained mode									
NB16206	T5 8W	1h	NiCd battery	4,8V	1,2 Ah	43%	x		
NB16207	T5 8W	3h	NiCd battery	4,8V	2,2 Ah	33%	x		
For Non maintained mode									
NB16208	T5 8W	1h	NiCd battery	4,8V	1,2 Ah	43%	x		
NB16209	T5 8W	3h	NiCd battery	4,8V	2,2 Ah	33%	x		



Indus

Description: Emergency luminaire in industrial style with flat body and prismatic diffuser. Light distribution by white reflector. Installation on ceiling, wall or wall bracket.
Special features: Industrial design, robust and shockproof.

Technical details see pages 110 - 117

Technical data

Mounting:
Ceiling, wall or wall bracket

Body:
Polycarbonate white

Cover:
Prismatic polycarbonate

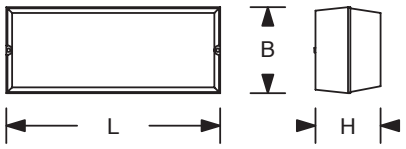
Reflector:
White polycarbonate

Mains supply:

198V – 254V / 50Hz

Ambient temperature:
0 to + 40 °C

Specification:
Maintained or non maintained mode



W	• Dimensions (mm) •			Version
	L	B	H	
8	368	148	112	1-side

T5 IP54 26m 230V 50Hz

Accessories to be ordered separately		
Order code 8W	Description	Article
F95029	Wall bracket	
F95032	Wire guard	

LOGICA SOLUTION

Order code	Lamp	Duration	Battery type	Battery voltage	Battery capacity	Ballast lumen factor (BLF)	Stan-dard	Auto-test	Central-test
NB90918L	T5 8W	1h/3h	NiCd	7,2 V	1,7 Ah	91% (1h) / 38% (3h)		x	x

For Logica-FM fittings please order FM-module (FB16304) separately

Order code	Lamp	Duration	Battery type	Battery voltage	Battery capacity	Ballast lumen factor (BLF)	Stan-dard	Auto-test	Central-test
NB90918	T5 8W	1h	NiCd	4,8V	1,2 Ah	43%	x		
NB90919	T5 8W	3h	NiCd	4,8V	2,2 Ah	33%	x		

Standard type supplied with test switch

Pratica Tuttovetro

Description: Exit sign and emergency luminaire in an industrial style, consisting of a flat body and a rectangular transparent cover. Light distribution by white reflector. Single sided exit route sign (wall mounting). Luminaire supplied with three exit sign films.
Special features: Industrial look, improved degree of protection to IP65 by auxiliary box. Suited for exit route signalling or exit route lighting.
Quick fix adapter for IP40 version.

Technical details see pages 110 - 117

Technical data

Mounting:
Wall or ceiling mounting

Body:
ABS plastic

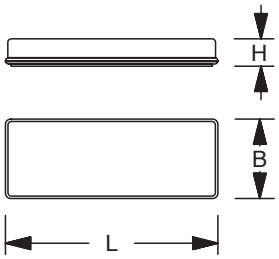
Diffuser:
Transparent polycarbonate

Reflector:
White polycarbonate

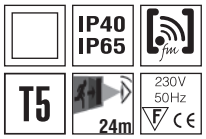
Mains supply:
198 V - 254 V / 50 Hz

Ambient temperature:
0 to + 40 °C

Specification:
Maintained or non maintained mode



W	• Dimensions (mm) •		
	L	B	H
8	380	142	49



Fittings are supplied complete with		
Order code 8W	**Description**	**Article**
FB16901	Exit signs (set with all 3 films)	

Accessories to be ordered separately	
Order code 8W	**Description**
FB2734	IP-65 auxiliary box

LOGICA SOLUTION

Order code	Lamp	Duration	Battery type	Battery voltage	Battery capacity	Ballast lumen factor (BLF)	Stan-dard	Auto-test	Central-test
NB16312	T5 8 W	1 h / 3 h	NiCd battery	7,2 V	1,7 Ah	91% (1h) / 38% (3h)		**x**	**x**

For Logica-FM fittings please order FM-module (FB16304) separately

Order code	Lamp	Duration	Battery type	Battery voltage	Battery capacity	Ballast lumen factor (BLF)	Stan-dard	Auto-test	Central-test
NB16100	T5 8 W	1 h	NiCd battery	6,0 V	0,8 Ah	36%	**x**		
NB16101	T5 8 W	3 h	NiCd battery	6,0 V	1,8 Ah	34%	**x**		

Leader

Description: Emergency luminaire in industrial style, consisting of an oval body and diffuser. Transparent diffuser with longitudinal and lateral prisms. Light distribution by specular reflector of aluminised plastic with complex shape. Special features: Industrial look, optimal light distribution, high light output ratio, emergency luminaires also available for general lighting. Twin lamp fittings with one lamp operating in emergency mode are available on request.

Technical details see pages 110 - 117

Technical data

Mounting:
Wall or ceiling mounting

Body:
Grey polycarbonate

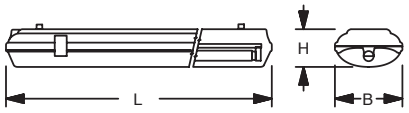
Diffuser:
Transparent polycarbonate

Reflector:
Polycarbonate specular aluminised

Mains supply:
198 V - 254 V / 50 Hz

Ambient temperature:
0 to + 40 °C

Specification:
Maintained or non maintained mode



W	• Dimensions (mm) •		
	L	B	H
18	670	170	95
36	1280	170	95
58	1580	170	95

IP66 · T8 · 230V 50Hz

LOGICA SOLUTION

Order code	Lamp	Duration	Battery type	Battery voltage	Battery capacity	Ballast lumen factor (BLF)	Stan-dard	Auto-test	Central-test
N90090L	T8 18 W	1 h / 3 h	NiCd battery	7,2 V	2,2 Ah	56% / 19 %		x	x
N90092L	T8 36 W	1 h / 3 h	NiCd battery	7,2 V	2,2 Ah	28% / 9 %		x	x
N90094L	T8 58 W	1 h / 3 h	NiCd battery	7,2 V	2,2 Ah	18% / 6 %		x	x

For Logica-FM fittings please order FM-module (FB16304) separately

Order code	Lamp	Duration	Battery type	Battery voltage	Battery capacity	Ballast lumen factor (BLF)	Stan-dard	Auto-test	Central-test
N90090	T8 18 W	1 h	NiCd battery	6,0 V	4,0 Ah	30%	x		
N90091	T8 18 W	3 h	NiCd battery	6,0 V	4,0 Ah	16%	x		
N90092	T8 36 W	1 h	NiCd battery	6,0 V	4,0 Ah	25%	x		
N90093	T8 36 W	3 h	NiCd battery	6,0 V	4,0 Ah	12%	x		
N90094	T8 58 W	1 h	NiCd battery	6,0 V	4,0 Ah	17%	x		
N90095	T8 58 W	3 h	NiCd battery	6,0 V	4,0 Ah	9%	x		

Strahler

Description: Emergency luminaire comprising a power pack box and 2 adjustable spotlights. To be installed free standing or on walls.
Special features: Optimal exit route lighting in warehouses and temporary structures.

Technical details see pages 110 - 117

Technical data

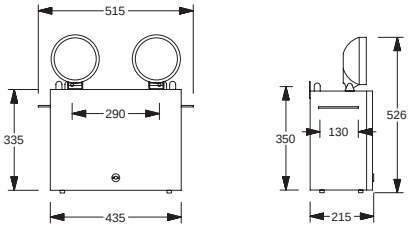
Mounting:
Free standing or wall mounting

Body:
Sheet steel grey (RAL 7032)

Mains supply:
198 V - 254 V / 50 Hz

Ambient temperature:
0 to + 40 °C

Specification:
Non maintained mode



QT-Lp IP54

LOGICA SOLUTION

Order code	Lamp	Duration	Battery type	Battery voltage	Battery capacity	Ballast lumen	Stan-dard	Auto-test	Central-test
N90447L	2 x QT-Lp 20W	1h	Lead acid battery	12,0 V	6,5 Ah	2 x 210 lm		x	x
N90448L	2 x QT-Lp 20W	3h	Lead acid battery	12,0 V	24,0 Ah	2 x 210 lm		x	x
N90449L	2 x QT-Lp 55W	1h	Lead acid battery	12,0 V	24,0 Ah	2 x 1100 lm		x	x
N90450L	2 x QT-Lp 55W	3h	Lead acid battery	12,0 V	48,0 Ah	2 x 1100 lm		x	x

For Logica-FM fittings please order FM-module (FB16304) separately

Order code	Lamp	Duration	Battery type	Battery voltage	Battery capacity	Ballast lumen	Stan-dard	Auto-test	Central-test
N90447	2 x QT-Lp 20W	1h	Lead acid battery	12,0 V	6,5 Ah	2 x 210 lm	x		
N90448	2 x QT-Lp 20W	3h	Lead acid battery	12,0 V	24,0 Ah	2 x 210 lm	x		
N90449	2 x QT-Lp 55W	1h	Lead acid battery	12,0 V	24,0 Ah	2 x 1100 lm	x		
N90450	2 x QT-Lp 55W	3h	Lead acid battery	12,0 V	48,0 Ah	2 x 1100 lm	x		

Standard type supplied with test switch

Scout

Description: Portable emergency luminaire with adjustable spotlight. Lamp housing with one main lamp and one auxiliary lamp, switchable. Wall bracket available as accessory.
Special features: Portable light source with choice of 2 light beams and 2 durations.

Technical details see pages 110 - 117

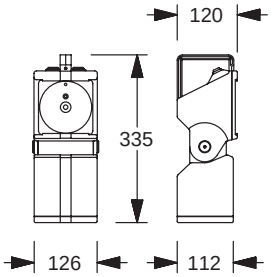
Technical data

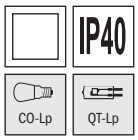
Body:
Grey polycarbonate

Mains supply:
198 V - 254 V / 50 Hz

Ambient temperature:
0 to + 40 °C

Specification:
Non maintained mode





Accessories to be ordered separately		
Order code	**Description**	**Article**
F97230	Wall bracket	

Order code	Lamp	Duration	Battery type	Battery voltage	Battery capacity	Ballast lumen	Stan-dard	Auto-test	Central-test
N97230	QT-Lp 10W / CO-Lp 1,2W	4h / 38h	NiCd battery	6,0 V	7,0 Ah	120 lm / 5 lm	x		

NVG

Power pack to operate 1 or 2 luminaires with incandescent lamp, electronic/ magnetic transformer or electronic/magnetic ballast. Design with separate electronics and battery compartment. Installation remote from luminaire(s). Max. distance between power pack and luminaire = 500 m.
Special features: Use of general lighting luminaires as emergency luminaires. Emergency luminaires switchable from non-maintained to maintained mode via mains switches of the general lighting installation.
Note: Electronic gear must be sutable for DC and AC operation and for use in emergency lighting installations. Luminaires with magnetic gear must have low power factor circuits.

Technical details see pages 110 - 117

Technical data

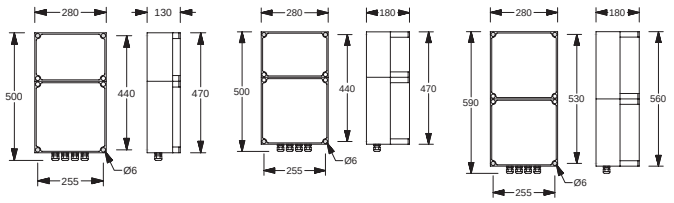
Mounting:
Wall mounting

Body:
ABS-plastic

Mains supply:
198 V - 254 V / 50 Hz

Ambient temperature:
0 to + 40 °C

Specification:
Maintained or non maintained mode



V90800L
V90801L

V90802L

V90803L

IP65
Electronic

IP32
Battery

NVGE-W maximum lamp load

Order code	Duration	Ballast lumen factor (BLF)	Incandescent lamp	Fluorescent lamp electronic ballast	Ballast lumen factor (BLF)	Fluorescent lamp magnetic ballast
V90800L	1h	100%	20 W	1 x 13 W CFL	75%	1 x 18 W T8 1 x 18 W CFL
V90801L	1h	100%	60 W	1 x 58 W T8 2 x 18 W T8 1 x 54 W T5 2 x 28 W T5 1 x 55 W CFL 2 x 26 W CFL	75%	1 x 58 W T8 2 x 18 W T8 1 x 36 W CFL 2 x 26 W CFL
V90801L	3h	100%	20 W	1 x 18 W T8 1 x 14 W T5 1 x 18 W CFL	75%	1 x 18 W T8 1 x 18 W CFL
V90802L	1h	100%	100 W	1 x 70 W T8 2 x 38 W T8 1 x 80 W T5 2 x 39 W T5 1 x 80 W CFL 2 x 40 W CFL	75%	1 x 70 W T8 2 x 38 W T8 2 x 36 W CFL
V90802L	3h	100%	40 W	1 x 38 W T8 2 x 18 W T8 1 x 35 W T5 2 x 14 W T5 1 x 36 W CFL 2 x 18 W CFL	75%	1 x 36 W T8 2 x 15 W T8 1 x 28 W CFL 2 x 13 W CFL
V90803L	1h	100%	120 W	2 x 58 W T8 1 x 80 W T5 2 x 49 W T5 1 x 80 W CFL 2 x 55 W CFL	75%	2 x 58 W T8 1 x 36 W CFL 2 x 36 W CFL
V90803L	3h	100%	70 W	1 x 58 W T8 2 x 36 W T8 1 x 54 W T5 2 x 28 W T5 1 x 36 W CFL 2 x 26 W CFL	75%	1 x 58 W T8 2 x 30 W T8 1 x 36 W CFL 2 x 26 W CFL

LOGICA SOLUTION

Order code	Lamp	Duration	Battery type	Battery voltage	Battery capacity	Ballast lumen factor (BLF)[1)]	Stan-dard	Auto-test	Central-test
V90800L	See table	1h / 3h	Lead acid battery	12,0 V	6,5 Ah	25% / 50% / 75% / 100%		x	x
V90801L	See table	1h / 3h	Lead acid battery	12,0 V	13,0 Ah	25% / 50% / 75% / 100%		x	x
V90802L	See table	1h / 3h	Lead acid battery	12,0 V	24,0 Ah	25% / 50% / 75% / 100%		x	x
V90803L	See table	1h / 3h	Lead acid battery	12,0 V	40,0 Ah	25% / 50% / 75% / 100%		x	x

[1)] All power packs are equipped with DALI control input. This permits to adjust the ballast lumen factor to 25%, 50%, 75% or 100%.

Inverter

Description: Conversion kit for the operation of 1 fluorescent tube in 1 luminaire with electronic or magnetic ballast. Separate electronic control unit and battery pack to be fitted within a luminaire.
Special features: Use of general lighting luminaires for emergency lighting. Mode to be selected from non-maintained to maintained mode by mains switches of the general lighting installation.

Technical details see pages 110 - 117

Technical data

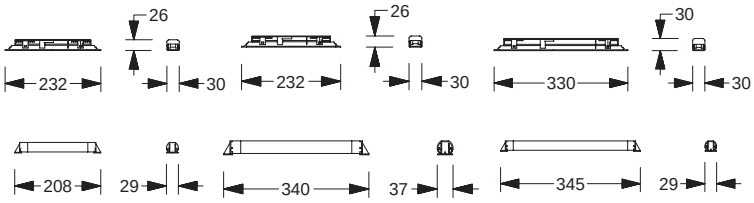
Mounting:
To be installed in luminaires

Body:
Plastic

Mains supply:
198 V - 254 V / 50 Hz

Ambient temperature:
- 5 to + 40 °C

Specification:
Maintained or non maintained mode



VB12488 | VB12490, VB12480, VB12482 | VB16309

IP20

Order code	Duration	Ballast lumen factor (BLF)	Lamp
VB12488	1h	30%	T5 14 W
		24%	T5 21 W
		20%	T5 24 W
VB12490	3h	30%	T5 14 W
		24%	T5 21 W
		20%	T5 24 W
VB12480	1h	30%	T8 18 W
		25%	T8 36 W
		17%	T8 58 W
VB12482	3h	16%	T818 W
		12%	T8 38 W
		9%	T8 58 W
VB16309	1h	42%	T5 21W
		28%	T5 24 W
		22%	T5 28 W
		26%	T5 35 W
		22%	T5 39 W
		17%	T5 49 W
		18%	T5 54 W
		11%	T5 80 W
	3h	14%	T5 21 W
		12%	T5 24 W
		11%	T5 28 W
		9%	T5 35 W
		8%	T5 39 W
		6%	T5 49 W
		6%	T5 54 W
		4%	T5 80 W
	1h	56%	T8 18 W
		28%	T8 36 W
		18%	T8 58 W
	3h	19%	T8 18 W
		9%	T8 36 W
		6%	T8 58 W
	1h	41%	CFL 24 W
		28%	CFL 36 W
		22%	CFL 40 W
		16%	CFL 55 W
	3h	14%	CFL 24 W
		9%	CFL 36 W
		8%	CFL 40 W
		6%	CFL 55 W

Allocation of lamp, duration and ballast lumen factor

[LOGICA] SOLUTION

Order code	Lamp	Duration	Battery type	Battery voltage	Battery capacity	Ballast lumen factor (BLF)	Stan-dard	Auto-test	Central-test
	T5 14W-80W								
VB16309	T8 18W-58W	1h / 3h	NiCd battery	7,2 V	2,2 Ah	See table		x	x
	CFL 4 pin/2 Ib 24W-55W								
For Logica-FM fittings please order FM-module (FB16304) separately									
VB12488	T5 14W-24W	1h	NiCd battery	4,8 V	1,7 Ah	See table	x		
VB12490	T5 14W-24W	3h	NiCd battery	6,0 V	4,0 Ah	See table	x		
VB12480	T8 18W-58W	1h	NiCd battery	6,0 V	4,0 Ah	See table	x		
VB12482	T8 18W-58W	3h	NiCd battery	6,0 V	4,0 Ah	See table	x		

Arcus V

Description: Exit sign luminaire in elegant style with convex body. Front surface designed as a pane, projecting on all sides. Choice of single sided (wall mounting) or double sided (ceiling, pendant, suspended and bracket mounting) exit sign.
Special features: Architectural look, sleek design, long distance visibility, high light output ratio, also available as emergency luminaire.

Technical details see pages 110 - 117

Technical data

Mounting:
Wall or ceiling mounting

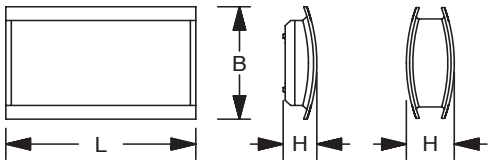
Body:
Die-cast aluminium and extruded aluminium, anthracite RAL 9007

Diffuser:
Polycarbonate with longitudinal prisms

Mains supply:
198 V - 254 V / 50 Hz

Ambient temperature:
0 to + 40 °C

Specification:
Maintained or non maintained mode



W	• Dimensions (mm) •			Version
	L	B	H	
8	348	217	62	1-side
8	348	217	89	2-side

T5 IP40

33m 230V 50Hz

Accessories to be ordered separately		
Order code 8W	**Description**	**Article**
E16282N	Exit sign pane	
E16283N	Exit sign pane	
E16284N	Exit sign pane	
E16302	Opal pane	
E16285	Pane in body colour	
F95104	Adaptor for ceiling mounting	
F95083	Suspension profile 250 mm	
F95084	Suspension profile 500 mm	
F95085	Suspension profile 1000 mm	
F95064	Wall bracket	
F95402	Pendant rod 500 mm	
F95403	Wire suspension max. 1200 mm	

LOGICA SOLUTION

Order code	Lamp	Duration	Battery type	Battery voltage	Battery capacity	Ballast lumen factor (BLF)	Stan-dard	Auto-test	Central-test
Single sided exit sign									
N90270L	T5 8 W	1 h / 3 h	NiCd battery	7,2 V	1,7 Ah	91% (1h) / 38% (3h)		x	x
Double sided exit sign									
N90278L	T5 8 W	1 h / 3 h	NiCd battery	7,2 V	1,7 Ah	91% (1h) / 38% (3h)		x	x
For Logica-FM fittings please order FM-module (FB16304) separately									

Order code	Lamp	Duration	Battery type	Battery voltage	Battery capacity	Ballast lumen factor (BLF)	Stan-dard	Auto-test	Central-test
Single sided exit sign									
NB90270	T5 8 W	1 h	NiCd battery	4,8 V	1,2 Ah	43%	x		
NB90271	T5 8 W	3 h	NiCd battery	4,8 V	2,2 Ah	33%	x		
Double sided exit sign									
NB90278	T5 8 W	1 h	NiCd battery	4,8 V	1,2 Ah	43%	x		
NB90279	T5 8 W	3 h	NiCd battery	4,8 V	2,2 Ah	33%	x		
Standard type supplied with test switch									

Design

Description: Exit sign luminaire in functional style, consisting of semi-circular sections and flat end caps. Choice of single sided (wall mounting) or double sided (ceiling, pendant suspended and bracket mounting) exit sign. Luminaires are supplied without panes, adaptor for ceiling mounting, pendant or bracket.
Special features: Architectural look, sleek design, choice of 2 visibility distances, also available as emergency luminaire.

Technical details see pages 110 - 117

Technical data

Mounting:
Wall or ceiling mounting

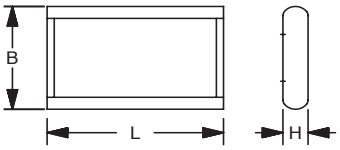
Body:
Sheet steel, white RAL 9003 [1)]

Mains supply:
198 V - 254 V / 50 Hz

Ambient temperature:
0 to + 40 °C

Specification:
Maintained or non maintained mode

1) Design with aluminium body available on request



W	• Dimensions (mm) •		
	L	B	H
6	265	175	55
8	386	237	55

T5 IP40 fm 23-35m 230V 50Hz

Accessories to be ordered separately

Order code 6W	Order code 8W	Description	Article
E16604N	**E16608N**	Exit sign pane	
E16605N	**E16609N**	Exit sign pane	
E16606N	**E16610N**	Exit sign pane	
E16607	**E16611**	Opal pane	
E16242	**E16241**	Pane in body colour	
F95057	**F95057**	Adaptor for ceiling mounting	
F95100	**F95100**	Suspension profile 250 mm	
F95101	**F95101**	Suspension profile 500 mm	
F95102	**F95102**	Suspension profile 1000 mm	
F95022	**F95035**	Wall bracket	
F95067	**F95067**	Wire suspended mounting	
F95400	**F95400**	Pendant rod 500 mm	
F95401	**F95401**	Wire suspension max. 1200 mm	
	F95032	Wire guard (wall mounting)	

LOGICA SOLUTION

Order code	Lamp	Duration	Battery type	Battery voltage	Battery capacity	Ballast lumen factor (BLF)	Stan-dard	Auto-test	Central-test
Single sided exit sign									
NM90544L	T5 6 W	1 h / 3 h	NiCd battery	7,2 V	1,7 Ah	100% (1h) / 51% (3h)		x	x
NM90540L	T5 8 W	1 h / 3 h	NiCd battery	7,2 V	1,7 Ah	91% (1h) / 38% (3h)		x	x
Double sided exit sign									
NM90546L	T5 6 W	1 h / 3 h	NiCd battery	7,2 V	1,7 Ah	100% (1h) / 51% (3h)		x	x
NM90542L	T5 8 W	1 h / 3 h	NiCd battery	7,2 V	1,7 Ah	91% (1h) / 38% (3h)		x	x

For Logica-FM fittings please order FM-module (FB16304) separately

Order code	Lamp	Duration	Battery type	Battery voltage	Battery capacity	Ballast lumen factor (BLF)	Stan-dard	Auto-test	Central-test
Single sided exit sign									
NM90544	T5 6 W	1 h	NiCd battery	4,8 V	1,2 Ah	58%	x		
NM90545	T5 6 W	3 h	NiCd battery	4,8 V	2,2 Ah	44%	x		
NM90540	T5 8 W	1 h	NiCd battery	4,8 V	1,2 Ah	43%	x		
NM90541	T5 8 W	3 h	NiCd battery	4,8 V	2,2 Ah	33%	x		
Double sided exit sign									
NM90546	T5 6 W	1 h	NiCd battery	4,8 V	1,2 Ah	58%	x		
NM90547	T5 6 W	3 h	NiCd battery	4,8 V	2,2 Ah	44%	x		
NM90542	T5 8 W	1 h	NiCd battery	4,8 V	1,2 Ah	43%	x		
NM90543	T5 8 W	3 h	NiCd battery	4,8 V	2,2 Ah	33%	x		

Standard type supplied with test switch

Kubus

Description: Exit sign luminaire, consisting of flat sections with folded corners. Choice of single sided (wall mounting) or double sided (ceiling, pendant suspended and bracket mounting) exit sign.
Luminaires are supplied without panes and accessories.
Special features: Functional look, choice of 3 visibility distances, also available as emergency luminaire.

Technical details see pages 110 - 117

Technical data

Mounting:
Wall or ceiling mounting

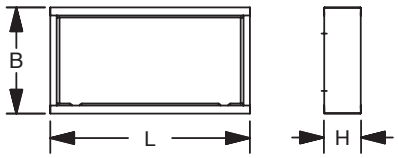
Body:
Sheet steel, white RAL 9003 [1)]

Mains supply:
198 V - 254 V / 50 Hz

Ambient temperature:
0 to + 40 °C

Specification:
Maintained or non maintained mode

1) Design with aluminium body available on request



W	• Dimensions (mm) •		
	L	B	H
6	255	140	70
8	376	200	70
13	605	315	70

T5 IP40 230V 50Hz 23-35-60m

Accessories to be ordered separately				
Order code			Description	Article
6W	8W	13W		
E16604N	E16608N	E16134N	Exit sign pane	
E16605N	E16609N	E16135N	Exit sign pane	
E16606N	E16610N	E16136N	Exit sign pane	
E16607	E16611	E16324	Opal pane	
E16242	E16241	E16251	Pane in body colour	
F95057	F95057	F95057	Adaptor for ceiling mounting	
F95600	F95600	F95600	Suspension profile 250 mm	
F95601	F95601	F95601	Suspension profile 500 mm	
F95602	F95602	F95602	Suspension profile 1000 mm	
F95055	F95056	F95070	Wall bracket	
F95400	F95400	F95400	Pendant rod 500 mm	
F95401	F95401	F95401	Wire suspension max. 1200 mm	
	F95032		Wire guard (wall mounting)	

LOGICA SOLUTION

Order code	Lamp	Duration	Battery type	Battery voltage	Battery capacity	Ballast lumen factor (BLF)	Standard	Auto-test	Central-test
Single sided exit sign									
NM90612L	T5 6 W	1 h / 3 h	NiCd battery	7,2 V	1,7 Ah	100% (1h) / 51% (3h)		x	x
NM90614L	T5 8 W	1 h / 3 h	NiCd battery	7,2 V	1,7 Ah	91% (1h) / 38% (3h)		x	x
NM90680L	T5 13 W	1 h / 3 h	NiCd battery	7,2 V	1,7 Ah	56% (1h) / 24% (3h)		x	x
Double sided exit sign									
NM90624L	T5 6 W	1 h / 3 h	NiCd battery	7,2 V	1,7 Ah	100% (1h) / 51% (3h)		x	x
NM90626L	T5 8 W	1 h / 3 h	NiCd battery	7,2 V	1,7 Ah	91%(1h) / 38% (3h)		x	x
NM90682L	T5 13 W	1 h / 3 h	NiCd battery	7,2 V	1,7 Ah	56% (1h) / 24% (3h)		x	x

For Logica-FM fittings please order FM-module (FB16304) separately

Order code	Lamp	Duration	Battery type	Battery voltage	Battery capacity	Ballast lumen factor (BLF)	Stan-dard	Auto-test	Central-test
Single sided exit sign									
NM90612	T5 6 W	1 h	NiCd battery	4,8 V	1,2 Ah	58%	x		
NM90613	T5 6 W	3 h	NiCd battery	4,8 V	2,2 Ah	44%	x		
NM90614	T5 8 W	1 h	NiCd battery	4,8 V	1,2 Ah	43%	x		
NM90615	T5 8 W	3 h	NiCd battery	4,8 V	2,2 Ah	33%	x		
NM90680	T5 13 W	1 h	NiCd battery	4,8 V	1,2 Ah	27%	x		
NM90681	T5 13 W	3 h	NiCd battery	4,8 V	2,2 Ah	20%	x		
Double sided exit sign									
NM90624	T5 6 W	1 h	NiCd battery	4,8 V	1,2 Ah	58%	x		
NM90625	T5 6 W	3 h	NiCd battery	4,8 V	2,2 Ah	44%	x		
NM90626	T5 8 W	1 h	NiCd battery	4,8 V	1,2 Ah	43%	x		
NM90627	T5 8 W	3 h	NiCd battery	4,8 V	2,2 Ah	33%	x		
NM90682	T5 13 W	1 h	NiCd battery	4,8 V	1,2 Ah	27%	x		
NM90683	T5 13 W	3 h	NiCd battery	4,8 V	2,2 Ah	20%	x		
Standard type supplied with test switch									

Dispos

Description: Exit sign luminaire in functional design, surface mounted version consisting of segmented sections. Choice of single sided (wall mounting) or double sided (recessed ceiling, ceiling, pendant suspended and bracket mounting) exit sign.
Luminaires supplied without exit sign panes and accessories.
Special features: Functional look, display technology, two different visibility ranges, also available with LED light sources.

Technical details see pages 110 - 117

Technical data

Mounting:
Recessed, ceiling, pendant or bracket installation

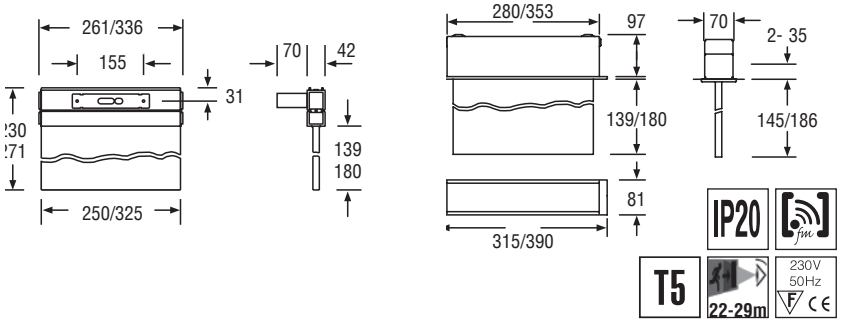
Body:
Aluminium, white RAL 9003

Cover for recessed version:
Sheet steel white RAL 9003

Mains supply:
198 V - 254 V / 50 Hz

Ambient temperature:
0 to + 40 °C

Specification:
Maintained or non maintained mode



Accessories to be ordered separately			
Order code		**Description**	**Article**
6W	**8W**		
E16260N	**E16128N**	Exit sign pane	
E16261N	**E16129N**	Exit sign pane	
E16262N	**E16130N**	Exit sign pane	
F95209	**F95209**	Adaptor for pendant suspended mounting	
F95600	**F95600**	Suspension profile 250 mm	
F95601	**F95601**	Suspension profile 500 mm	
F95602	**F95602**	Suspension profile 1000 mm	
F95211	**F95211**	Wall bracket	
F95404	**F95404**	Pendant rod 500 mm	
F95405	**F95405**	Wire suspension max. 1200 mm	
F95220	**F95221**	Concrete ceiling box	

LOGICA SOLUTION

Order code	Lamp	Duration	Battery type	Battery voltage	Battery capacity	Ballast lumen factor (BLF)	Stan-dard	Auto-test	Central-test
Version for recessed ceiling mounting and double sided exit route sign									
NM90135L	T5 6W	1 h / 3 h	NiCd battery	7,2 V	1,7 Ah	100% (1h) / 51% (3h)		x	x
NM90100L	T5 8 W	1 h / 3 h	NiCd battery	7,2 V	1,7 Ah	91% (1h) / 38% (3h)		x	x
Version for wall mounting and single sided exit route sign									
N90111L	T5 6W	1 h / 3 h	NiCd battery	7,2 V	1,7 Ah	100% (1h) / 51% (3h)		x	x
N90105L	T5 8 W	1 h / 3 h	NiCd battery	7,2 V	1,7 Ah	91% (1h) / 38% (3h)		x	x
Version for pendant suspended mounting and double sided exit route sign									
N90116L	T5 6W	1 h / 3 h	NiCd battery	7,2 V	1,7 Ah	100% (1h) / 51% (3h)		x	x
N90107L	T5 8 W	1 h / 3 h	NiCd battery	7,2 V	1,7 Ah	91% (1h) / 38% (3h)		x	x

For Logica-FM fittings please order FM-module (FB16304) separately

Order code	Lamp	Duration	Battery type	Battery voltage	Battery capacity	Ballast lumen factor (BLF)	Stan-dard	Auto-test	Central-test
Version for recessed ceiling mounting and double sided exit route sign									
NM90135	T5 6 W	1 h	NiCd battery	4,8 V	1,2 Ah	58%	x		
NM90136	T5 6 W	3 h	NiCd battery	4,8 V	2,2 Ah	44%	x		
NM90100	T5 8 W	1 h	NiCd battery	4,8 V	1,2 Ah	43%	x		
NM90101	T5 8 W	3 h	NiCd battery	4,8 V	2,2 Ah	33%	x		
Version for wall mounting and single sided exit route sign									
NB90111	T5 6 W	1 h	NiCd battery	4,8 V	1,2 Ah	58%	x		
NB90112	T5 6 W	3 h	NiCd battery	4,8 V	2,2 Ah	44%	x		
NB90105	T5 8 W	1 h	NiCd battery	4,8 V	1,2 Ah	43%	x		
NB90106	T5 8 W	3 h	NiCd battery	4,8 V	2,2 Ah	33%	x		
Version for pendant suspended mounting and double sided exit route sign									
NB90116	T5 6 W	1 h	NiCd battery	4,8 V	1,2 Ah	58%	x		
NB90117	T5 6 W	3 h	NiCd battery	4,8 V	2,2 Ah	44%	x		
NB90107	T5 8 W	1 h	NiCd battery	4,8 V	1,2 Ah	43%	x		
NB90108	T5 8 W	3 h	NiCd battery	4,8 V	2,2 Ah	33%	x		
Standard type supplied with test switch									

Dispos-LED

Description: Exit sign luminaire in functional design, consisting of segmented sections (surface-mounted design). Choice of single sided (wall mounting) or double sided (recessed ceiling, pendant suspended and bracket mounting) exit route sign.
Luminaires supplied without exit sign panes and accessories.
Special features: Functional look, display technology, two different visibility ranges, also available as emergency luminaire with T5 6 W and 8 W.

Technical details see pages 110 - 117

Technical data

Mounting:
Recessed, ceiling, pendant or bracket installation

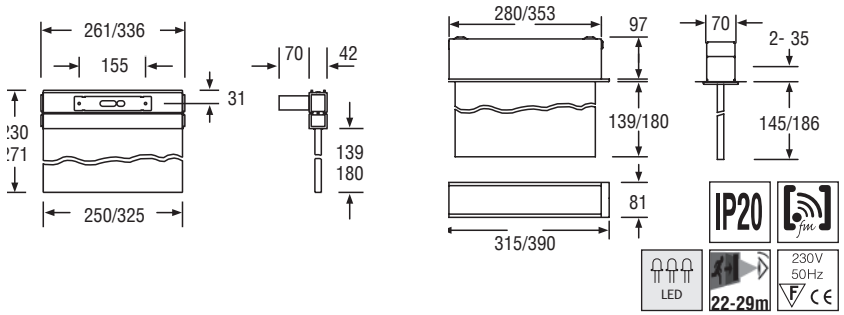
Body:
Aluminium, white RAL 9003

Cover for recessed version:
Sheet steel white RAL 9003

Mains supply:
198 V - 254 V / 50 Hz

Ambient temperature:
0 to + 40 °C

Specification:
Maintained or non maintained mode



Accessories to be ordered separately			
Order code		**Description**	**Article**
3W	**5W**		
E16260N	**E16128N**	Exit sign pane	
E16261N	**E16129N**	Exit sign pane	
E16262N	**E16130N**	Exit sign pane	
F95209	**F95209**	Adaptor for pendant suspended mounting	
F95600	**F95600**	Suspension profile 250 mm	
F95601	**F95601**	Suspension profile 500 mm	
F95602	**F95602**	Suspension profile 1000 mm	
F95211	**F95211**	Wall bracket	
F95404	**F95404**	Pendant rod 500 mm	
F95405	**F95405**	Wire suspension max. 1200 mm	
F95220	**F95221**	Concrete ceiling box	

LOGICA SOLUTION

Order code	Lamp	Duration	Battery type	Battery voltage	Battery capacity	Ballast lumen factor (BLF)	Stan-dard	Auto-test	Central-test
Version for recessed ceiling mounting and double sided exit route sign									
NM90215L	LED 3 W	1 h / 3 h	NiCd battery	7,2 V	1,7 Ah	100%		x	x
NM90180L	LED 5 W	1 h / 3 h	NiCd battery	7,2 V	1,7 Ah	100%		x	x
Version for wall mounting and single sided exit route sign									
N90191L	LED 3 W	1 h / 3 h	NiCd battery	7,2 V	1,7 Ah	100 %		x	x
N90185L	LED 5 W	1 h / 3 h	NiCd battery	7,2 V	1,7 Ah	100 %		x	x
Version for pendant suspended mounting and double sided exit route sign									
N90196L	LED 3 W	1 h / 3 h	NiCd battery	7,2 V	1,7 Ah	100 %		x	x
N90187L	LED 5 W	1 h / 3 h	NiCd battery	7,2 V	1,7 Ah	100 %		x	x

For Logica-FM fittings please order FM-module (FB16304) separately

Maxima

Description: Exit sign luminaire in functional design with body and panes in oval form. Choice of single sided (wall mounting) or double sided (ceiling, pendant suspended and bracket mounting) exit sign. Luminaires are supplied with 4 exit sign films, adaptor for ceiling mounting and bracket for wall mounting.
Special features: Attractive aesthetics, sleek body, long distance visibility, easy installation with quick-adaptor.

Technical details see pages 110 - 117

Technical data

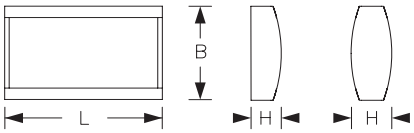
Mounting:
Wall, ceiling, pendant suspended or bracket mounting

Body:
Polycarbonate

Mains supply:
198 V - 254 V / 50 Hz

Ambient temperature:
0 to + 40 °C

Specification:
Maintained or non maintained mode



W	• Dimensions (mm) •			Version
	L	B	H	
8	390	227	79,3	1-side
8	390	227	90	2-side

T5 IP40 33m 230V 50Hz

Fittings are supplied complete with		
Order code 8W	**Description**	**Article**
FB16910	Exit signs (set with all 4 films)	
F95505	Adaptor for ceiling mounting	
F95506	Side arm	

Accessories to be ordered separately	
Order code 8W	**Description**
FB3723	Adaptor for wire or chain suspension
F95510	Suspension profile 500 mm
F95511	Suspension profile 1000 mm
F95512	Suspension profile 1500 mm

LOGICA SOLUTION

Order code	Lamp	Duration	Battery type	Battery voltage	Battery capacity	Ballast lumen factor (BLF)	Standard	Auto-test	Central-test
Single sided exit sign									
N90360L	T5 8 W	1 h / 3 h	NiCd battery	7,2 V	1,7 Ah	91% (1h) / 38% (3h)		x	x
Double sided exit sign									
N90362L	T5 8 W	1 h / 3 h	NiCd battery	7,2 V	1,7 Ah	91% (1h) / 38% (3h)		x	x

For Logica-FM fittings please order FM-module (FB16304) separately

Order code	Lamp	Duration	Battery type	Battery voltage	Battery capacity	Ballast lumen factor (BLF)	Standard	Auto-test	Central-test
Single sided exit sign									
NB90360	T5 8 W	1 h	NiCd battery	4,8 V	1,2 Ah	43%	x		
NB90361	T5 8 W	3 h	NiCd battery	4,8 V	2,2 Ah	33%	x		
Double sided exit sign									
NB90362	T5 8 W	1 h	NiCd battery	4,8 V	1,2 Ah	43%	x		
NB90363	T5 8 W	3 h	NiCd battery	4,8 V	2,2 Ah	33%	x		

Standard type supplied with test switch

Maxima LED

Description: Exit sign luminaire in functional design with body and panes in oval form. Choice of single sided (wall mounting) or double sided (ceiling, pendant suspended and bracket mounting) exit sign. Luminaires are supplied with 4 exit sign films, adaptor for ceiling mounting and bracket for wall mounting.
Special features: Attractive aesthetics, sleek body, long distance visibility, easy installation with quick-adaptor.

Technical details see pages 110 - 117

Technical data

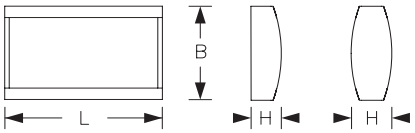
Mounting:
Wall, ceiling, pendant suspended or bracket mounting

Body:
Polycarbonate

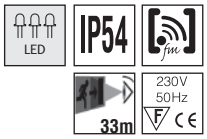
Mains supply:
198 V - 254 V / 50 Hz

Ambient temperature:
0 to + 40 °C

Specification:
Maintained or non maintained mode



W	• Dimensions (mm) •			Version
	L	B	H	
8	390	227	79,3	1-side
8	390	227	90	2-side



Fittings are supplied complete with		
Order code 8W	**Description**	**Article**
FB16910	Exit signs (set with all 4 films)	
F95505	Adaptor for ceiling mounting	
F95506	Side arm	

Accessories to be ordered separately	
Order code 8W	**Description**
FB3723	Adaptor for wire or chain suspension
F95510	Suspension profile 500 mm
F95511	Suspension profile 1000 mm
F95512	Suspension profile 1500 mm

LOGICA SOLUTION

Order code	Lamp	Duration	Battery type	Battery voltage	Battery capacity	Ballast lumen factor (BLF)	Standard	Auto-test	Central-test
Single sided exit sign									
N90360L-LED	LED 2x1W	1 h / 3 h	NiCd battery	7,2 V	1,7 Ah	100%		x	x
Double sided exit sign									
N90362L-LED	LED 2x1W	1 h / 3 h	NiCd battery	7,2 V	1,7 Ah	100%		x	x

For Logica-FM fittings please order FM-module (FB16304) separately

Tuttovetro Bandiera

Description: Exit sign luminaire in industrial style, consisting of a flat body and a tapered opal cover. Double sided exit route sign (ceiling, wire suspended and bracket mounting). Luminaire supplied with exit sign films, adapter for wire suspension and bracket mounting.
Special features: Industrial look, improved degree of protection to IP65 by auxiliary box. Quick fix adapter for IP40 version.

Technical details see pages 110 - 117

Technical data

Mounting:
Ceiling, pendant or bracket mounting

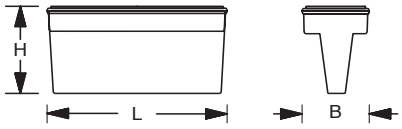
Body:
ABS plastic

Diffuser:
ABS plastic

Mains supply:
198 V - 254 V / 50 Hz

Ambient temperature:
0 to + 40 °C

Specification:
Maintained or non maintained mode



W	• Dimensions (mm) •			Lamp
	L	B	H	
8	380	142	194	T5

• Dimensions (mm) IP65 •		
L	B	H
396	156	233

T5 · IP40 IP65 · RECHARGE 12 HOURS · 24 m · 230V 50Hz

Fittings are supplied complete with		
Order code 8W	**Description**	**Article**
FB16902	Exit signs (set with 4 films)	
FB3722	Wall bracket	
FB3723	Adaptor for wire suspended mounting	

Accessories to be ordered separately		
Order code 8W	**Description**	**Article**
FB2734	IP-65 auxiliary box	

LOGICA SOLUTION

Order code	Lamp	Duration	Battery type	Battery voltage	Battery capacity	Ballast lumen factor (BLF)	Stan-dard	Auto-test	Central-test
NB16313	T5 8 W	1 h / 3 h	NiCd battery	7,2 V	1,7 Ah	91% (1h) / 38% (3h)		x	x

For Logica-FM fittings please order FM-module (FB16304) separately

Order code	Lamp	Duration	Battery type	Battery voltage	Battery capacity	Ballast lumen factor (BLF)	Stan-dard	Auto-test	Central-test
NB16102	T5 8 W	1 h	NiCd battery	6,0 V	0,8 Ah	36%	x		
NB16103	T5 8 W	3 h	NiCd battery	6,0 V	1,8 Ah	34%	x		

Indus

Description: Exit sign luminaire in industrial design with flat body and opal diffuser. Light distribution by white reflector. Single sided exit route sign (wall mounting) or double sided (ceiling mounting).
Special features: Industrial design, robust and shockproof.

Technical details see pages 110 - 117

Technical data

Mounting:
Wall, ceiling, wire or chain suspension or bracket mounting

Body:
White polycarbonate

Cover:
Polycarbonat opal

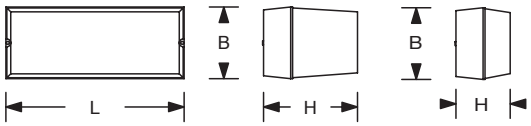
Reflector:
White polycarbonate

Mains supply:

198V – 254V / 50 Hz

Ambient temperature:
0 to + 40 °C

Specification:
Maintained or non maintained mode



W	• Dimensions (mm) •			Version
	L	B	H	
8	368	148	112	1-side
8	368	148	194	2-side

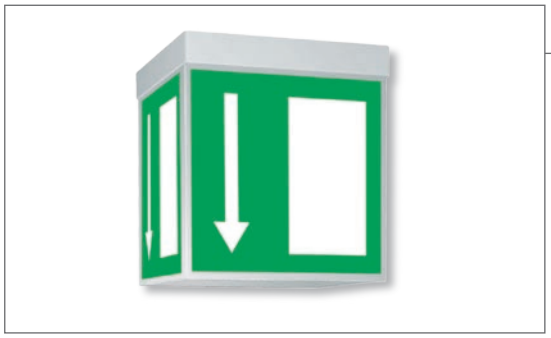
T5 IP54 fm 26m 230V 50Hz

Accessories to be ordered separately		
Order code 8W	**Description**	**Article**
F15314N	Exit sign film	
F15313N	Exit sign film	
F15312N	Exit sign film	
F95029	Wall bracket	
FB3723	Adaptor for wire or chain suspension	
F95032	Wire guard	

LOGICA SOLUTION

Order code	Lamp	Duration	Battery type	Battery voltage	Battery capacity	Ballast lumen factor (BLF)	Stan-dard	Auto-test	Central-test
Single sided exit sign									
NB90901L	T5 8W	1h/3h	NiCd battery	7,2 V	1,7 Ah	91% (1h)		x	x
Double sided exit sign									
NB90432L	T5 8W	1h/3h	NiCd battery	7,2 V	1,7 Ah	91% (1h) / 38% (3h)		x	x
For Logica-FM fittings please order FM-module (FB16304) separately									

Order code	Lamp	Duration	Battery type	Battery voltage	Battery capacity	Ballast lumen factor (BLF)	Stan-dard	Auto-test	Central-test
Single sided exit sign									
NB90901	T5 8W	1h	NiCd battery	4,8V	1,2 Ah	43%	x		
NB90902	T5 8W	3h	NiCd battery	4,8V	2,2 Ah	33%	x		
Double sided exit sign									
NB90432	T5 8W	1h	NiCd battery	4,8V	1,2 Ah	43%	x		
NB90433	T5 8W	3h	NiCd battery	4,8V	2,2 Ah	33%	x		
Standard type supplied with test switch									



Quader

Description: Exit sign luminaire consisting of a square base and a cuboids transparent diffuser. Three sided exit route sign (ceiling mounting). Long range visibility due to large diffuser.
Special features: Three sided exit route sign for large sized areas like supermarkets.

Technical details see pages 110 - 117

Technical data

Mounting:
Ceiling or pendant mounting, wire or chain suspension

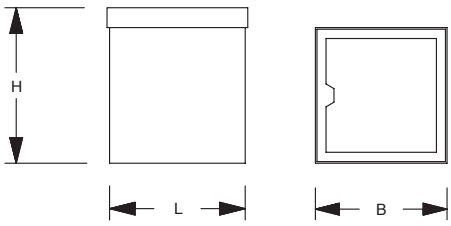
Body:
Polypropylene

Diffuser:
PMMA

Mains supply:
198 V - 254 V / 50 Hz

Ambient temperature:
0 to + 40 °C

Specification:
Maintained or non maintained mode



W	• Dimensions (mm) •		
	L	B	H
9	239	248	274

TC-SEL-Lp · IP42 · fm · 44m · 230V 50Hz · F · CE

Accessories to be ordered separately		
Order code 9W	**Description**	**Article**
F15330	Exit sign film	
F15331	Exit sign film	
F15332	Exit sign film	
F95600	Pendant rod 250 mm	
F95601	Pendant rod 500 mm	
F95602	Pendant rod 1000 mm	
F95400	Pendant rod	
F95401	Wire suspension kit	
F95210	Adaptor for pendant suspended mounting	
F95406	Adaptor for wire or chain suspension	

LOGICA SOLUTION

Order code	Lamp	Duration	Battery type	Battery voltage	Battery capacity	Ballast lumen factor (BLF)	Standard	Auto-test	Central-test
N90480L	CFL 4-pin 2 lb 9W	1 h / 3 h	NiCd battery	7,2 V	1,7 Ah	82% (1h) / 34% (3h)		x	x

For Logica-FM fittings please order FM-module (FB16304) separately

Order code	Lamp	Duration	Battery type	Battery voltage	Battery capacity	Ballast lumen factor (BLF)	Standard	Auto-test	Central-test
NB90480	CFL 4-pin 2 lb 9W	1 h	NiCd battery	4,8 V	1,2 Ah	38%	x		
NB90481	CFL 4-pin 2 lb 9W	3 h	NiCd battery	4,8 V	2,2 Ah	29%	x		

Standard type supplied with test switch

Centralised power supply systems

Central and group battery systems

The NZBVA and NZBVE central battery systems and the NGBVA and NGBVE group battery systems enable the installation of emergency lighting systems in medium and large-scale facilities. Both ranges are based on identical components. They only differ in the design of the cabinets:

- NZBVA and NGBVA: Control cabinets with a large inspection pane and detachable frame to accommodate 19" rack inserts.
- NZBVE und NGBVE: Control cabinets with a small inspection pane and fixed frame to accommodate 19" rack inserts.
- NZBVA and NZBVE: Use of a 216V battery with a lifetime expectation of 10+ years.
- NGBVA and NGBVE: Use of a 24V battery with a lifetime expectation of 5+ years.

Special features:

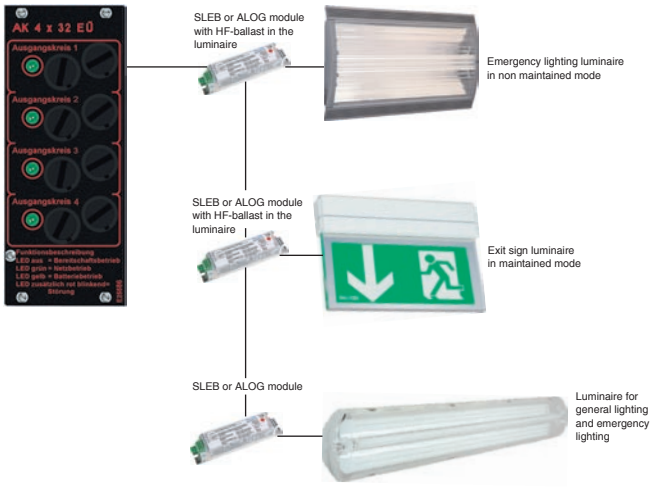
- Control and monitoring by the SlebLOGICA- or AutoLOGICA-system
- Luminaire operation in:
  - Maintained mode
  - Non maintained mode
  - Non maintained mode with selective switching to maintained mode via external light switches
  - Non maintained mode with selective switching in case of partial mains incidents/switching via external mains monitoring modules
- Combination of all options in a single circuit
- Permanent check of the general lighting switches or of the mains monitoring modules via control inputs within the luminaire or system
- Allocation of control information to different luminaires and circuits without limitation
- No manual addressing of the luminaire number at the control and monitoring module within the luminaire required
- No manual coding of the control input at the control and monitoring module within the luminaire required
- Automatic allocation of the required circuits and detection of luminaires
- Individual monitoring of 20 (32) luminaires in a circuit with or without selective irregularity report
- Automatic triggering of function and duration tests
- Automatic reporting to a test journal
- Centralised input and output of all parameters and data
- Operates luminaires with:
  - Incandescent lamps
  - Fluorescent tubes with electronic or magnetic ballast
  - HID lamps with electronic or magnetic ballast

Monitoring of emergency luminaires

The automatic test equipment of NGBVA, NGBVE, NZBVA and NZBVE systems monitors all exit signs and emergency luminaires. There are 2 options available:

- Individual monitoring with selective irregularity report enables immediate identification of a defective luminaire. The switching and monitoring modules SLEB or ALOG check during the functional test lamps and ballasts and report the result to the central station. An eventual defect is being indicated and printed by giving details which circuit and which luminaire is not working properly. The modules SLEB and ALOG are also available with integrated HF-ballast.
  The operation and monitoring modules to be used are AK…EÜ type.
- Individual monitoring without selective irregularity report does not enable immediate identification of a defective luminaire. There is just a comparison between the rated power of a circuit and the measured power during the functional test. An eventual defect is being indicated and printed by giving details which circuit is not working properly.
  The operation and monitoring modules to be used are AK…SÜ type.

Individual monitoring with selective irregularity report in a circuit with luminaires with different operation modes



SlebLOGICA and AutoLOGICA enable all NGBVA, NGBVE, NZBVA and NZBVE emergency lighting systems to operate luminaires in one single circuit in different operation modes:

- Maintained mode.
- Non maintained mode.
- Switching from non maintained to maintained mode depending on the on/off position of the light switches. Either via SlebLOGICA or AutoLOGICA modules in the emergency luminaires or via a centrally placed LSSA module.
- Automatically switching on of all or of selected emergency luminaires in non maintained mode in case of partial mains failures. Either via SlebLOGICA or AutoLOGICA modules in the emergency luminaires or via a centrally placed LSSA module.
- Automatically switching off of all or of selected emergency luminaires in non maintained mode in case of return of mains voltage. Either with or without time delay.
- Manually switching off of all or of selected emergency luminaires in non maintained mode in case of return of mains voltage. Either via SlebLOGICA or AutoLOGICA modules in the emergency luminaires or via a centrally placed LSSA module.
- On/off switching of emergency luminaires in maintained mode either manually or via time switch.
- Allocation of operating modes to circuits and luminaires without limitation.
- Allocation of commands of control modules to circuits and luminaires without limitation.
- No manual coding of the control input at the modules in the luminaire is required.
- AutoLOGICA system offers the automatic identification of the luminaire address, no manual operation is required.

Advantages:

- Reduction of the number of circuits and wiring.
- Smaller dimensions of the control cabinets.
- Reduction of the quantity of inflammable items.
- Reduction of installation cost.
- Simplification of the design.
- Increased flexibility during installation.
- Increased flexibility in case of changes.

SlebLOGICA and AutoLOGICA systems offer control and switching but also monitoring of the function of emergency luminaires. All these actions can be triggered from the central cabinet.

SlebLOGICA and AutoLOGICA modules are either available as single modules that switch and monitor the lamp and ballast of the luminaire (type SLEB or ALOG) or combined with a HF-ballast (type ECSL or ECAL).

Additional advantages of the AutoLOGICA system

- Every module and every luminaire is equipped with an identification code. There is no manual addressing required.
- The AutoLOGICA system does not request wrong or double addressing. Consequently there is no time consuming troubleshooting necessary.
- The unconditional colour of the cabinets set a new trend in the industry.

All modules of the AutoLOGICA range are fitted with a self adhesive label showing the identification code.

Control and monitoring system KOMBI CONTROL

KOMBI CONTROL controls and coordinates all group and central battery systems. It is also an automatic test device according to EN 50171 and EN 50172. Four control buttons, a display, multimedia card (MMC) and a printer port are available for data input and output as well as for operating the module.

KOMBI CONTROL controls and monitors following key system functions:

- Battery charging with automatic switching between short time battery charging and maintaining battery charging. Display of charge and discharge current/ voltage, check of the battery balance.
- Manual enabling/disabling of emergency mode suppression with push button or control input.
- Monitoring of mains supply on the main distribution board by an internal mains monitoring module.
- Automatic switching from mains to battery mode in the case of mains supply incidents/failures.
- Automatic cut-off of battery mode when the deep discharge protection is activated.
- Monitoring of mains supply on the sub distribution boards of general lighting by external mains monitoring modules (optional).
- Automatic switching on of non-maintained luminaires in all or selected luminaire circuits in case of mains supply incidents/failures via optional mains switch dependent control module LSSA.
- Automatic switching off – immediatly or delayed – of non-maintained luminaires when mains supply is recovered. The delay can be programmed for all or selected luminaire circuits.
- Manual switching of non-maintained luminaires when mains supply is recovered – for all circuits via control push button or for selected circuits via optional mains switch dependent control module LSSA.
- Manual switching of maintained luminaires via push buttons or control input with or without time control. Time control to be programmed for all or selected luminaire circuits (2-week and 1-year control programme).
- Time controlled switching of emergency lighting and general lighting via push buttons from the general lighting system and via optional control module TSZ.
- Allocation of all luminaire circuits to maintained and non-maintained mode or to an optional control module LSSA or TSZ.
- Automatic charge monitoring in cycles < 5 minutes.
- Automatic function tests with configuration of test parameters according to local/national requirements.
- Automatic duration tests with configuration of test parameters according to local/national requirements.
- Automatic storage of all test results for 2 years (integrated test journal).
- Automatic allocation of luminaire circuits and luminaire detection (EVG/KCE/SLEB).
- Automatic insulation test selective for the central station or for each luminaire circuit (central battery systems only).

Control push buttons and control inputs:

- Emergency mode suppression ON/OFF
- Maintained mode ON/OFF
- Switching from maintained to non-maintained mode
- Function test triggering
- Insulation test triggering

Status indicators:

- Emergency mode suppression ON/OFF
- Mains mode
- Battery mode
- Maintained mode ON/OFF
- Mains failure main distribution board (phases L1, L2, and L3)
- Mains failure sub distribution board
- Switching from maintained to non-maintained mode

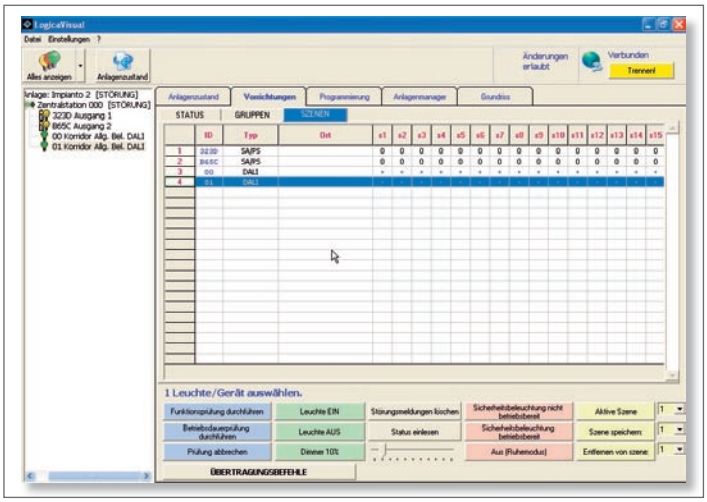
Fault indicators:

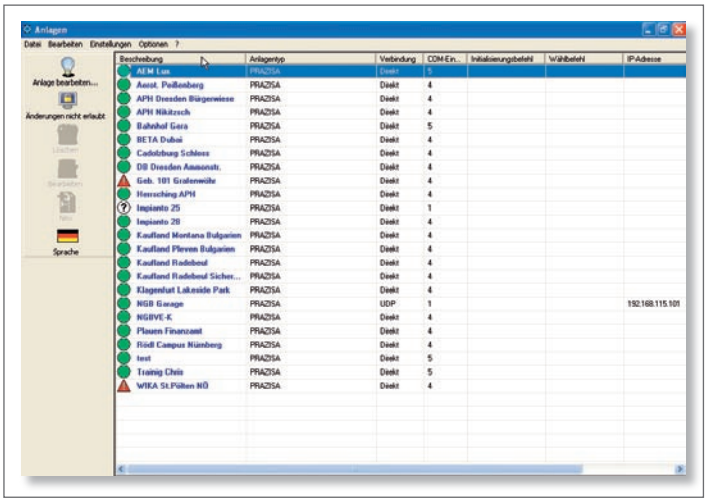
- Group alarm (detailed information via display or printer)
- Charge fault
- Battery fault
- Luminaire fault
- Bus fault
- Deep discharge
- Insulation fault
- Ventilator fault

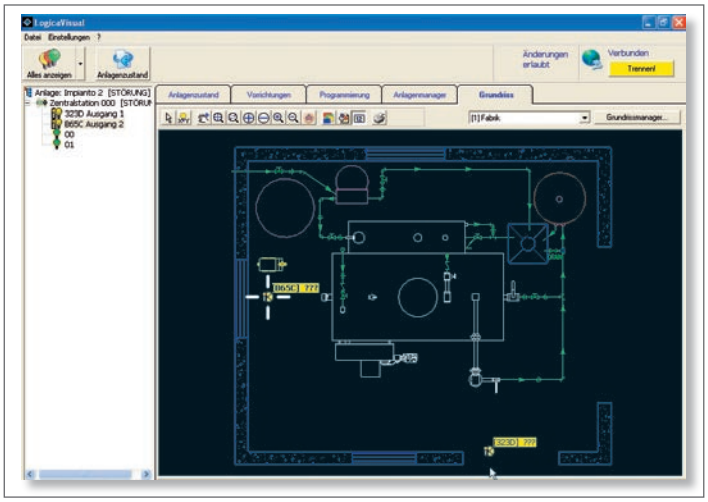
Signal outputs:

- Emergency mode suppression
- Mains mode
- Battery mode
- Group fault

Monitoring software LOGICA-Visual







Software for centralised monitoring and controlling of emergency lighting systems of the series NZBVE, NZBVA, NGBVE and NGBVA.

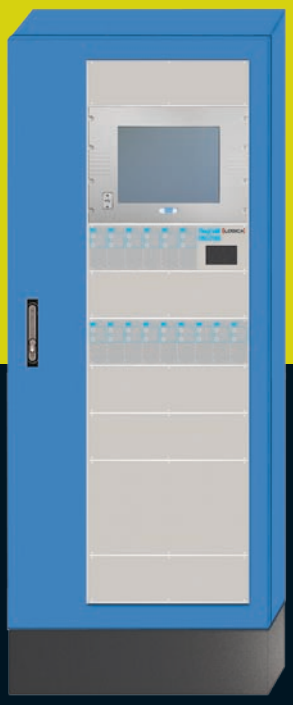
Connection of the PC with the central unit:
- Interface USB/RS485
- TCP/IP – Ethernet adaptor
- GSM Interface via the telecommunication network

Input/output of monitoring and control data:
- Numerical and graphical allocation of emergency lighting luminaires to the location in the building plans or in the luminaire list.
- Import of building plans as dxf or dwg data.
- Programming of emergency lighting duration for every single luminaire or every circuit.
- Programming of emergency lighting mode for every single luminaire or every circuit.
- Programming of data for the functional tests and duration tests.
- Programming of the parameters of the LSSA inputs.
- Automatic printing of protocols for the configuration of the system and for failures.
- Clear visualisation of the test results.
- Manual triggering of functional and duration tests.
- Manual suppression of the emergency operation.

Visualisation during online mode:
- Numerical and graphical visualisation of the status of all emergency luminaires and allocation to the building plans (dxf or dwg format) and the luminaire list.
- Status of the luminaires.
- Mode of emergency operation.
- Stand by modus.
- Irregularities within the system.
- Tests and results.

Hardware requirements (recommendation): IBM compatible PC with Pentium 4 processor 2 GHz, 512 MB-RAM, 3 GB free store capacity

Software requirements (recommendation): Windows 98 or any Windows of a later edition.



Central battery systems

Design and configuration of NZBVA and NZBVE

The central battery systems NZBVA and NZBVE can be designed according to the instructions below:

1. Determine from the customer's specifications:
   - Quantity and technical details of the exit sign and emergency luminaires to be supplied (lamp type, lamp power, ballast lumen factor and gear)
   - Quantity and technical details of the circuits (maintained mode, non-maintained mode, selectively switchable non-maintained mode, selectively switching-on non-maintained mode)
   - Type of luminaire monitoring
2. Power consumption in mains and battery mode (lamp and gear manufacturer data)[1)]
3. Charging unit
4. Battery
5. Operation and monitoring modules for the central station (system spreadsheet)
6. Options for the central station (system spreadsheet)
7. Output(s) to sub-station(s) if required
8. Central station (system spreadsheet)

Type: Identification of the central station:

NZBVA-Z
230/__/___/__/_/_
NZBVE-Z
Rack compartment MULTI CONTROL-I
(0 = no, 1 = yes)
Duration (h) (1=1h/3=3h/8=8h)
Rack compartments needed for operation and monitoring modules
Battery capacity (Ah)
Charge current (A)

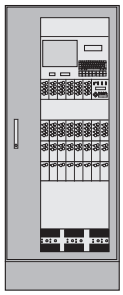
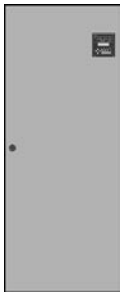
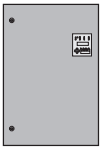
9. Operation and monitoring modules for the sub-station(s) (system spreadsheet)
10. Options for the sub-station(s) (system spreadsheet)
11. Sub-station(s) (system spreadsheet)

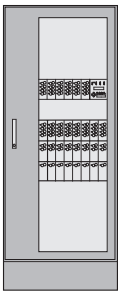
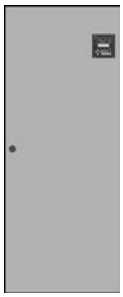
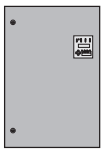
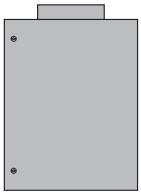
Type: Identification of the sub-station:

NZBVA-UV
/_ __ -
NZBVE-UV
Maintaining fire protection 30 min.(-30)
Rack compartements needed for operation and monitoring modules
Mounting (S = floor standing / W = wall mounting)

1) Power consumption of the ECSL, ECKC and EC modules on request.

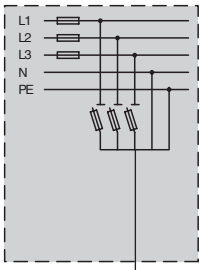
System spreadsheet NZBVA and NZBVE

				
Type	**NZBVA-Z 230/_/_/6 NZBVA-Z 230/_/_/14 NZBVA-Z 230/_/_/22 NZBVA-Z 230/_/_/30**	**NZBVE-Z/S 230/_/_/6 NZBVE-Z/S 230/_/_/14 NZBVE-Z/S 230/_/_/22 NZBVE-Z/S 230/_/_/30**	**NZBVE-Z/A 230/_/_/6 NZBVE-Z/A 230/_/_/14**	**NZBVE-Z/K 230/_/_/6 NZBVE-Z/K 230/_/_/14**
Charging unit L230/1,8	6 max.	6 max.	6 max.	6 max.
Batteries with a lifetime expectation of 10 years	33 Ah to 760 Ah	33 Ah to 200 Ah	33 Ah to 200 Ah	33 Ah to 96 Ah
Control and monitoring unit KOMBI CONTROL	integrated	integrated	integrated	integrated
Built-in printer ED	optional	optional	optional	optional
LON-BUS interface	optional	optional	optional	optional
Monitoring system LOGICA-Visual	optional	optional	only remote installation	only remote installation
USB interface TCP/IP interface GSM interface	optional (1 max.)	optional (1 max.)	optional (1 max.)	optional (1 max.)
Mains switch/contactor dependent control module LSSA 230/24	optional (8 max.) (8 max.) (8 max.) (8 max.)	optional (8 max.) (8 max.) (8 max.) (8 max.)	optional (1 max.) (2 max.)	optional (4 max.) (4 max.)
Operation and monitoring modules AK 1 x 32 EÜ AK 2 x 32 EÜ AK 4 x 32 EÜ Operation and monitoring modules AK 1 x 32 SÜ AK 2 x 32 SÜ AK 4 x 32 SÜ Operation and monitoring module AK 32-SÜ-AC	Rack compartments (6 max.) (14 max.) (22 max.) (30 max.)	Rack compartments (6 max.) (14 max.) (22 max.) (30 max.)	Rack compartments (6 max.) (14 max.)	Rack compartments (6 max.) (14 max.)
Design	Floor standing cabinets (electronics and battery)	Floor standing cabinets (electronics and battery	Wall-mounted cabinet (electronics) Floor standing cabinet (battery)	Floor standing combined cabinet (electronics and battery)
Dimensions (HxWxD)	2000 x 800 x 600 mm	2000 x 800 x 400 mm	890 x 800 x 400 mm	2000 x 800 x 600 mm

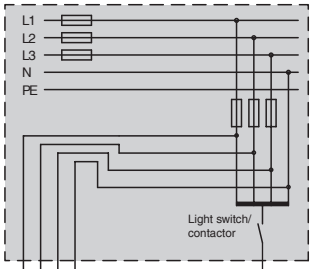
				
Type	**NZBVA-U/S 6 NZBVA-U/S 14 NZBVA-U/S 22 NZBVA-U/S 30**	**NZBVE-U/S 6 NZBVE-U/S 14 NZBVE-U/S 22 NZBVE-U/S 30**	**NZBVA-U/A 6 NZBVA-U/A 14 NZBVE-U/A 6 NZBVE-U/A 14**	**NZBVA-U/A 6-30 NZBVA-U/A 14-30 NZBVE-U/A 6-30 NZBVE-U/A 14-30**
Charging unit L230/1,8	-	-	-	-
Batteries with a lifetime expectation of 10 years	-	-	-	-
Control and monitoring unit KOMBI CONTROL	integrated	integrated	integrated	integrated
Built-in printer ED	-	-	-	-
LON-BUS interface	-	-	-	-
Monitoring system LOGICA-Visual	No	No	No	No
USB interface	-	-	-	-
TCP/IP interface				
GSM interface				
Mains switch/contactor dependent control module LSSA 230	optional (8 max.) (8 max.) (8 max.) (8 max.)	optional (8 max.) (8 max.) (8 max.) (8 max.)	optional (1 max.) (2 max.)	optional (4 max.) (4 max.)
Operation and monitoring modules AK 1 x 32 EÜ AK 2 x 32 EÜ AK 4 x 32 EÜ	Rack compartments (6 max.) (14 max.) (22 max.) (30 max.)	Rack compartments (6 max.) (14 max.) (22 max.) (30 max.)	Rack compartments (6 max.) (14 max.)	Rack compartments (6 max.) (14 max.)
Operation and monitoring modules AK 1 x 32 SÜ AK 2 x 32 SÜ AK 4 x 32 SÜ				
Operation and monitoring module AK 32-SÜ-AC				
Design	Floor standing cabinet	Floor standing cabinet	Wall-mounted cabinet	Wall-mounted cabinet
Dimensions (HxWxD)	2000 x 800 x 600 mm 2000 x 800 x 600 mm 2000 x 800 x 600 mm 2000 x 800 x 600 mm	2000 x 800 x 400 mm 2000 x 800 x 400 mm 2000 x 800 x 400 mm 2000 x 800 x 400 mm	380 x 600 x 350 mm 760 x 600 x 350 mm	949 x 608 x 324 mm 1149 x 608 x 324 mm

System spreadsheet NZBVA and NZBVE

Main distribution board
"Emergency lighting supply"



Sub distribution board
Mains supply 1



Three phase mains monitoring

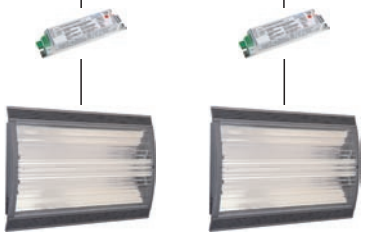
LON interface

GSM interface

USB/RS485 interface

TCP/IP interface

Up to 120 emergency circuits with maximal 32 emergency luminaries per circuit.

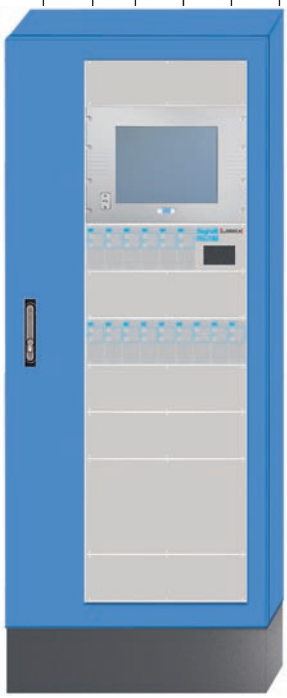


Emergency luminaries in non-maintained mode

Mains and battery supply

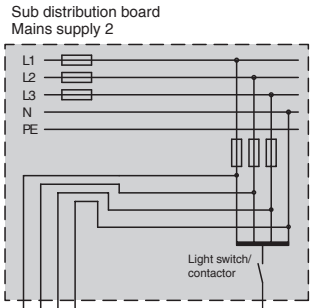
Bus line

Monitoring system with
LOGICA VISUAL



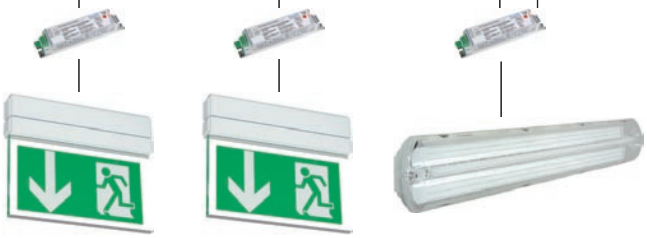
Central station

Data transmission and operating panels



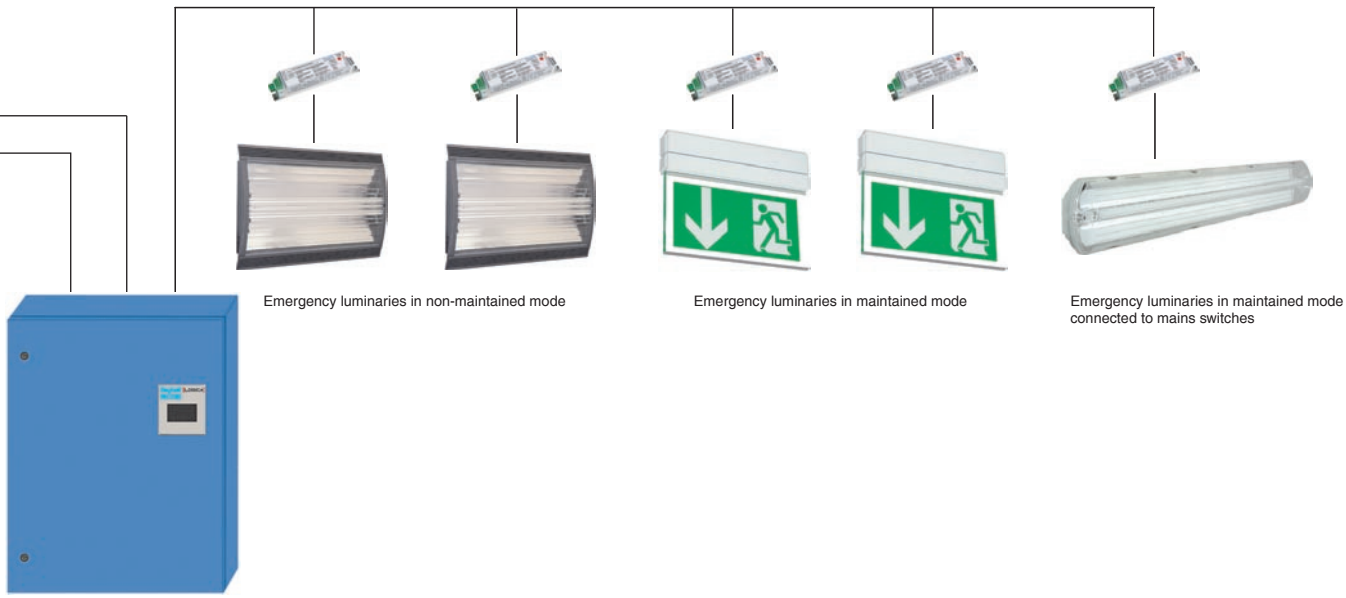
The mains switch control module LSSA 230/24 transfers the status of the mains switches to any emergency lighting circuit or to any emergency luminaire.

Emergency luminaries may be switched with the light switch by using the LSSA mains switch control module.



Emergency luminaries in maintained mode

Emergency luminaries in maintained mode connected to mains switches



Emergency luminaries in non-maintained mode

Emergency luminaries in maintained mode

Emergency luminaries in maintained mode connected to mains switches

Sub distribution board

Central station for NZBVA

Central station NZBVA-Z acc. to EN 50171 with:
- Control and monitoring system KOMBI CONTROL
- 6 rack compartments for charging unit L230/1,8
- Switching device to maintained mode
- Switching device to non-maintained mode
- Internal mains monitoring device for maintained mode
- Control input for external mains monitoring devices for non-maintained mode
- 6, 14, 22, or 30 rack compartments for operation and monitoring modules

Control cabinet including a lockable door with inspection pane and detachable frame. Modules for 19" rack technology. Battery cabinet with lockable door and ventilating apertures.

Technical data

Mains supply:	*1 ~ N PE 50/60 Hz*	*Cable entry:*	*from bottom*
	U : 230 V (+6%/-10)	*Cabinet:*	*Steel sheet*
	3 ~ N PE 50/60 Hz	*Mounting:*	*Floor standing*
	U : 400 V (+6%/-10)	*Degree of protection:*	*IP54*
Battery supply:	*U= 216 V*	*Electrical class:*	*I*
		Rated ambient temperature:	*-5°C to + 35°C*

Fuses and terminal blocks according to technical specification

SlebLOGICA system:		*AutoLOGICA system:*	
Cabinet colour:	*light grey RAL 7035*	*Cabinet colour:*	*brilliant blue RAL 5007 or light grey RAL 7035*
Colour of modules:	*black/red*	*Colour of modules:*	*grey/blue*

Central station for NZBVE KOMBI

Central station NZBVE KOMBI acc. to EN 50171 with:
- Control and monitoring system KOMBI CONTROL
- 6 rack compartments for charging unit L230/1,8
- Switching device to maintained mode
- Switching device to non-maintained mode
- Internal mains monitoring device for maintained mode
- Control input for external mains monitoring devices for non-maintained mode
- 6, 14, 22, or 30 rack compartments for operation and monitoring modules (with separate control cabinet)

Control cabinet with lockable door and inspection pane. Modules for 19" rack technology. Battery cabinet with lockable door and ventilating apertures.

Technical data

Mains supply:	*1 ~ N PE 50/60 Hz*	*Cable entry:*	*from top*
	U : 230 V (+6%/-10)	*Cabinet:*	*Steel sheet*
	3 ~ N PE 50/60 Hz	*Mounting:*	*Floor standing*
	U : 400 V (+6%/-10)	*Degree of protection:*	*IP21*
Battery supply:	*U= 216 V*	*Electrical class:*	*I*
		Rated ambient temperature:	*-5°C to + 35°C*

Fuses and terminal blocks according to technical specification

SlebLOGICA system:		*AutoLOGICA system:*	
Cabinet colour:	*light grey RAL 7035*	*Cabinet colour:*	*brilliant blue RAL 5007 or light grey RAL 7035*
Colour of modules:	*black/red*	*Colour of modules:*	*grey/blue*

Central station for NZBVE

Central station NZBVE-Z acc. to EN 50171 with:
- Control and monitoring system KOMBI CONTROL
- 6 rack compartments for charging unit L230/1,8
- Switching device to maintained mode
- Switching device to non-maintained mode
- Internal mains monitoring device for maintained mode
- Control input for external mains monitoring devices for non-maintained mode
- 6 or 14 rack compartments for operation and monitoring modules (with combined control and battery cabinet)
- 6, 14, 22, or 30 rack compartments for operation and monitoring modules (with separate control cabinet)

Control cabinet with lockable door and inspection pane. Modules for 19" rack technology. Battery cabinet with lockable door and ventilating apertures.

Technical data

Mains supply:	*1 ~ N PE 50/60 Hz*	*Cable entry:*	*from top*
	U : 230 V (+6%/-10)	*Cabinet:*	*Steel sheet*
	3 ~ N PE 50/60 Hz	*Mounting:*	*Floor standing*
	U : 400 V (+6%/-10)	*Degree of protection:*	*IP21*
Battery supply:	*U= 216 V*	*Electrical class:*	*I*
		Rated ambient temperature:	*-5°C to + 35°C*

Fuses and terminal blocks according to technical specification

SlebLOGICA system:		*AutoLOGICA system:*	
Cabinet colour:	*light grey RAL 7035*	*Cabinet colour:*	*brilliant blue RAL 5007 or light grey RAL 7035*
Colour of modules:	*black/red*	*Colour of modules:*	*grey/blue*

Charging unit for NZBVA and NZBVE

Charging unit L230/1,8

Temperature-controlled charging based on IU characteristic with charging mode-dependent switching from charging to maintaining battery charging (float charging). When multiple charging units are used, each of them is independent from the other.

Technical data

Charge voltage:	*244 V*		
Charge current:	*1,8 A*		
Design:	*19" rack insert (1 rack compartment)*		
Type:	*L230/1,8*		
Order no.:	***G32893-SL***	*Order no.:*	***G32893-AL***
Colour of modules:	*black/red*	*Colour of modules:*	*grey/blue*

Batteries for NZBVA and NZBVE

Batteries

Sealed lead-acid battery with a lifetime expectation of 10+ years at an ambient temperature of 20°C acc. to EN 50171.
Battery capacity 33 Ah up to 760 Ah.

Further information about battery details available on request.

Sub-station for NZBVA (floor standing)

Sub-station NZBVA-U/S acc. to EN 50171 with:
- Control and monitoring system KOMBI CONTROL
- Switching device to maintained mode
- Switching device to non-maintained mode
- Control input for external mains monitoring devices for non-maintained mode
- 6, 14, 22, or 30 rack compartments for operation and monitoring modules

Cabinet with lockable door, inspection pane and detachable frame. Modules for 19" rack technology.

Technical data

Mains supply:	*1 ~ N PE 50/60 Hz* *U : 230 V (+6%/-10)* *3 ~ N PE 50/60 Hz* *U : 400 V (+6%/-10)*	*Cable entry:* *Cabinet:* *Mounting:* *Degree of protection:* *Electrical class:*	*from bottom* *Steel sheet* *Floor standing* *IP54* *I*
Battery supply:	*U= 216 V*	*Rated ambient temperature:*	*-5°C to + 35°C*

Fuses and terminal blocks according to technical specification

SlebLOGICA system:		*AutoLOGICA system:*	
Cabinet colour:	*light grey RAL 7035*	*Cabinet colour:*	*brilliant blue RAL 5007* *or* *light grey RAL 7035*
Colour of modules:	*black/red*	*Colour of modules:*	*grey/blue*

Sub-station for NZBVE (floor standing)

Sub-station NZBVE-U/S acc. to EN 50171 with:
- Control and monitoring system KOMBI CONTROL
- Switching device to maintained mode
- Switching device to non-maintained mode
- Control input for external mains monitoring devices for non-maintained mode
- 6, 14, 22, or 30 rack compartments for operation and monitoring modules (system with separate control cabinet)

Cabinet with lockable door and inspection pane. Modules for 19" rack technology.

Technical data

Mains supply:	*1 ~ N PE 50/60 Hz* *U : 230 V (+6%/-10)* *3 ~ N PE 50/60 Hz* *U : 400 V (+6%/-10)*	*Cable entry:* *Cabinet:* *Mounting:* *Degree of protection:* *Electrical class:*	*from bottom* *Steel sheet* *Floor standing* *IP54* *I*
Battery supply:	*U= 216 V*	*Rated ambient temperature:*	*-5°C to + 35°C*

Fuses and terminal blocks according to technical specification

SlebLOGICA system:		*AutoLOGICA system:*	
Cabinet colour:	*light grey RAL 7035*	*Cabinet colour:*	*brilliant blue RAL 5007* *or* *light grey RAL 7035*
Colour of modules:	*black/red*	*Colour of modules:*	*grey/blue*

Sub-station for NZBVA and NZBVE (wall mounting)

Sub-station NZBVA-U/A or NZBVE-U/A acc. to EN 50171 with:
- Control and monitoring system KOMBI CONTROL
- Switching device to maintained mode
- Switching device to non-maintained mode
- Control input for external mains monitoring devices for non-maintained mode
- 6 or 14 rack compartments for operation and monitoring modules

Cabinet with lockable door and inspection pane. Modules for 19" rack technology.

Technical data

Mains supply:	*1 ~ N PE 50/60 Hz* *U : 230 V (+6%/-10)* *3 ~ N PE 50/60 Hz* *U : 400 V (+6%/-10)*	*Cable entry:* *Cabinet:* *Mounting:* *Degree of protection:* *Electrical class:*	*from top* *Steel sheet* *Wall mounting* *IP54* *I*
Battery supply:	*U= 216 V*	*Rated ambient temperature:*	*-5°C to + 35°C*

Fuses and terminal blocks according to technical specification

SlebLOGICA system:		*AutoLOGICA system:*	
Cabinet colour:	*light grey RAL 7035*	*Cabinet colour:*	*brilliant blue RAL 5007 or light grey RAL 7035*
Colour of modules:	*black/red*	*Colour of modules:*	*grey/blue*

Sub-station with 30 minutes rated fire protection for NZBVA and NZBVE (wall mounting)

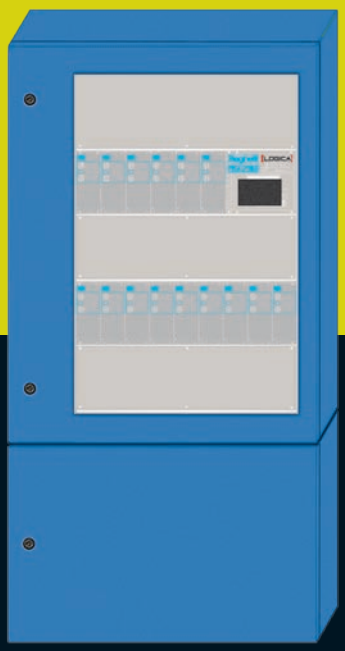
Sub-station NZBVA-U/A-30 or NZBVE-U/A-30 acc. to EN 50171 with:
- Control and monitoring system KOMBI CONTROL
- Switching device to maintained mode
- Switching device to non-maintained mode
- Control input for external mains monitoring devices for non-maintained mode
- 6 or 14 rack compartments for operation and monitoring modules

Cabinet with maintaining fire protection of 30 minutes following DIN 4102-2 with lockable door. Modules for 19" rack technology.

Technical data

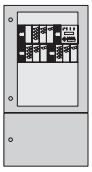
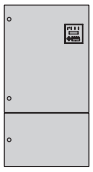
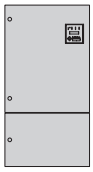
Terminals:			
- Mains:	*1 ~ N PE 50/60 Hz* *U : 230 V (+6%/-10)* *3 ~ N PE 50/60 Hz* *U : 400 V (+6%/-10)*	*Body:*	*Highly compressed fire protection panels*
- Battery:	*U= 216 V*	*Surface coating:*	*Sprela, grey (similar to RAL 7035)*
Cable entry:	*From top via a fitted cable entry to which a fire protected cable duct can be tightly connected.*[1)]	*Mounting:* *Degree of protection:* *Electrical class:* *Rated ambient temperature:*	*Wall mounting* *IP54* *I* *-5°C to + 35°C*

Fuses and terminal blocks according to technical specification



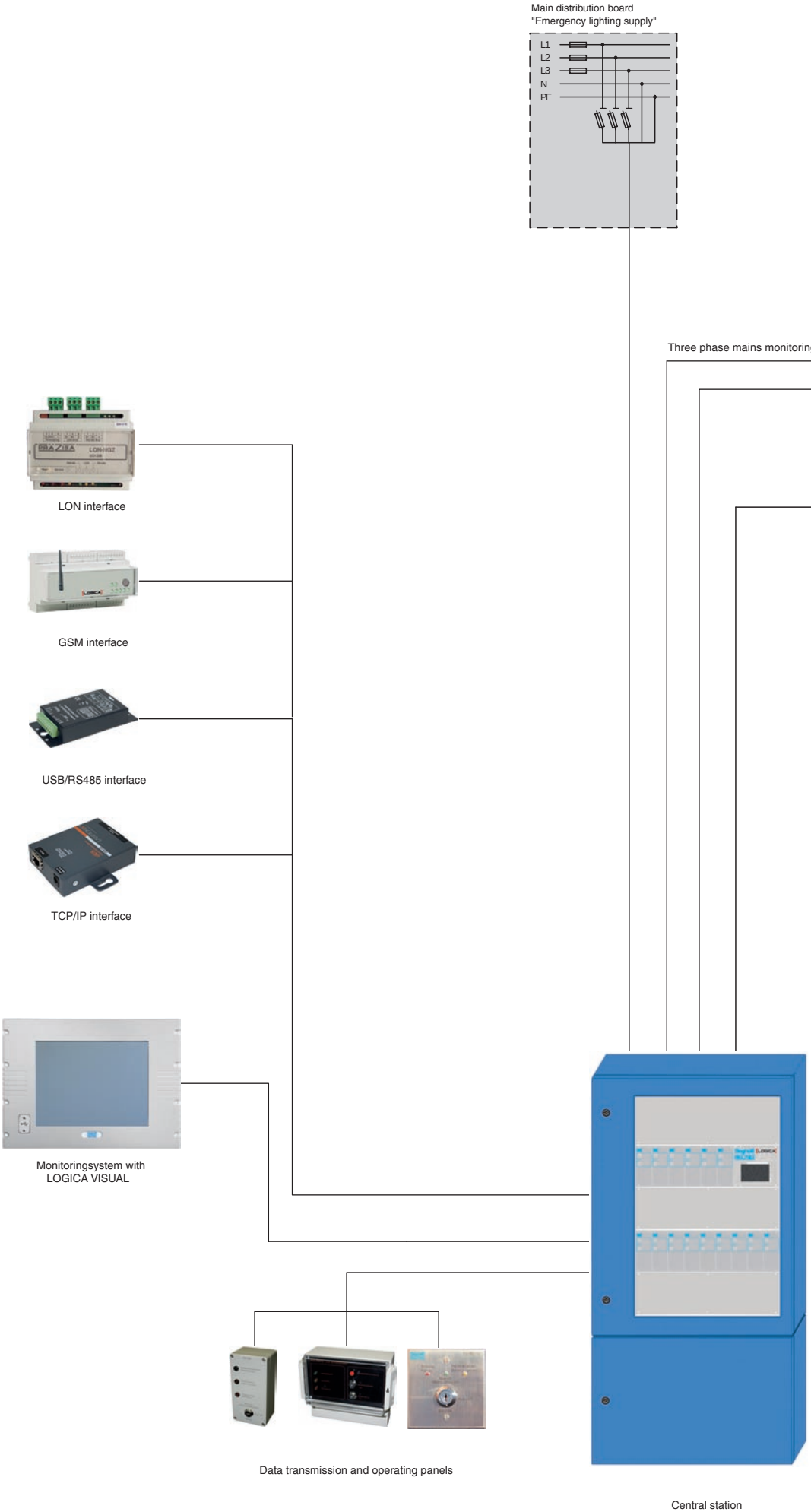
Group battery systems

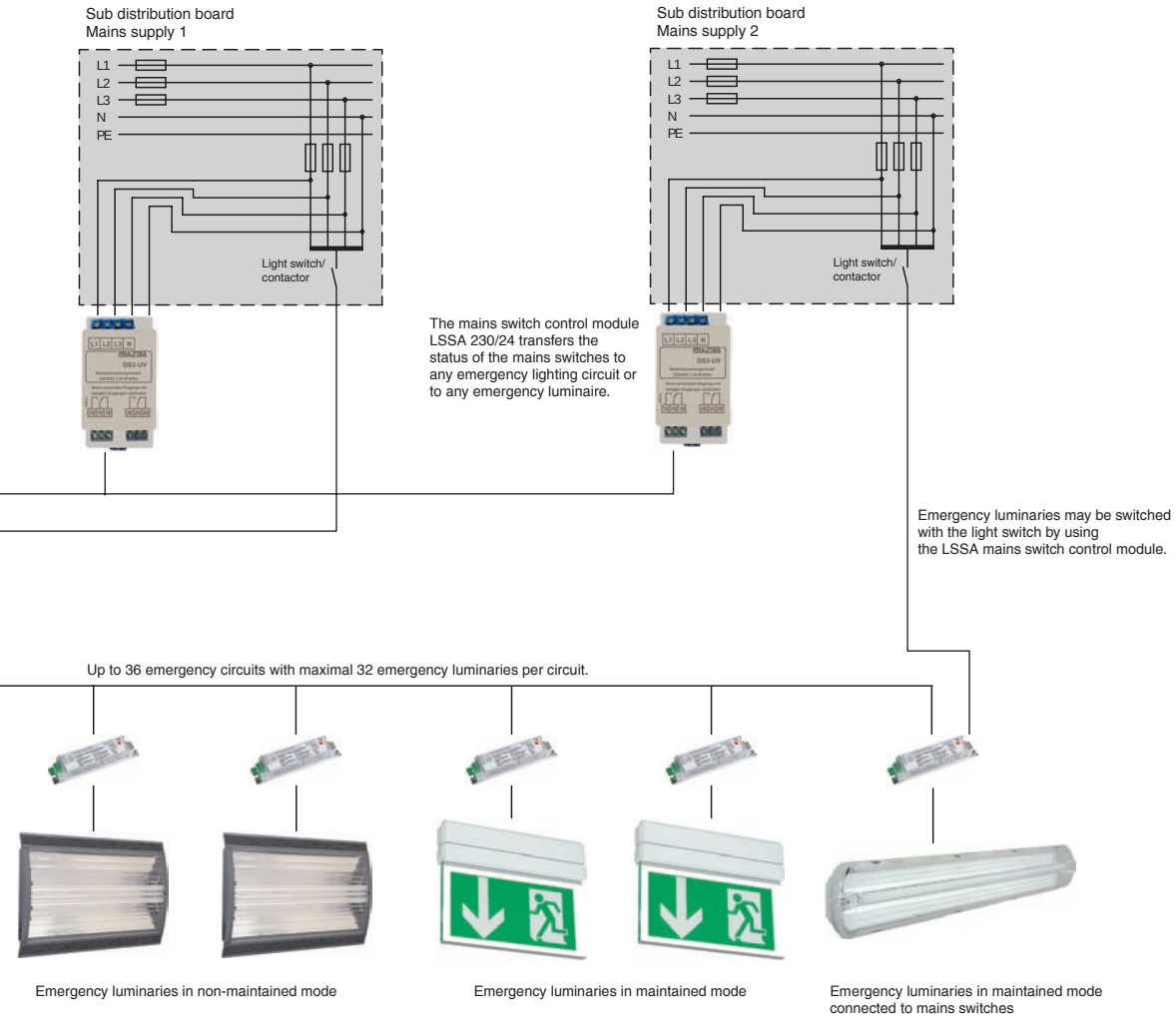
System spreadsheet NGBVA and NGBVE

Type	**NGBVA 24/6/_/1/3**	**NGBVA 24/6/_/3/9**	**NGBVE 24/6/_/1/3**	**NGBVE 24/6/_/3/9**
Charging unit L24/6	integrated	integrated	integrated	integrated
Batteries with a lifetime expectation of 5 years	10 Ah to 115 Ah	10 Ah to 115 Ah	10 Ah to 115 Ah	10 Ah to 115 Ah
Transformers WLG	max. 1 x WLG 400 or 1 x WLG 750	max. 1 x WLG 750 + 2 x WLG 400 or 3 x WLG 400	max. 1 x WLG 400 or 1 x WLG 750	max. 3 x WLG 400 or 1 x WLG 750
Control and monitoring unit KOMBI CONTROL	integrated	integrated	integrated	integrated
Built-in printer ED	optional	optional	optional	optional
LON-BUS interface	optional	optional	optional	optional
Monitoring system LOGICA-Visual	No	No	No	No
USB interface	optional (max. 1)	optional (max. 1)	optional (max. 1)	optional (max. 1)
TCP/IP interface				
GSM interface				
Mains switch/contactor dependent control module LSSA 230	optional (max. 1)	optional (max. 1)	optional (max. 1)	optional (max. 1)
Mains switch/contactor dependent control module LSSA 24				
Staircase mains-/emergency lighting control module TSZ 230				
Operation and monitoring modules AK 1 x 32 EÜ AK 2 x 32 EÜ AK 4 x 32 EÜ	Rack compartments (max. 3)	Rack compartments (max. 9)	Rack compartments (max. 3)	Rack compartments (max. 9)
Operation and monitoring modules AK 1 x 32 SÜ AK 2 x 32 SÜ AK 4 x 32 SÜ				
Operation and monitoring module AK 32-SÜ-AC				
Design	Wall-mounted combined cabinet (electronics and battery)	Wall-mounted combined cabinet (electronics and battery)	Wall-mounted combined cabinet (electronics and battery)	Wall-mounted combined cabinet (electronics and battery)
Dimensions (HxWxD)	1140 x 600 x 350 mm	1140 x 600 x 350 mm	1140 x 600 x 350 mm	1140 x 600 x 350 mm

System spreadsheet NGBVA and NGBVE





Emergency luminaries in non-maintained mode

Emergency luminaries in maintained mode

Emergency luminaries in maintained mode
connected to mains switches

Group battery system NGBVA

Group battery system NGBVA acc. to EN 50171 with:
- Control and monitoring system KOMBI CONTROL
- Charging unit L24/6
- Switching device to maintained mode
- Switching device to non-maintained mode
- Internal mains monitoring device for maintained mode
- Control input for external mains monitoring devices for non-maintained mode
- 1 or 3 rack compartments for transformers
- 3 or 9 rack compartments for operation and monitoring modules

Control cabinet including a lockable door with inspection pane and detachable frame. Modules for 19" rack technology. Battery cabinet with lockable door and ventilating apertures.

Technical data

Mains supply:	*1 ~ N PE 50/60 Hz* *U : 230 V (+6%/-10)* *3 ~ N PE 50/60 Hz* *U : 400 V (+6%/-10)*
Fuse:	*25 A, 3-pole*
Terminals:	*10 mm2*
Battery supply:	*U= 24 V*
Fuse:	*max. 80 A, 2-pole*

Terminals:	*25 mm2*
Cable entry:	*from top*
Body:	*Steel sheet*
Mounting:	*Wall mounting*
Degree of protection:	*IP54/IP32*
Electrical class:	*I*
Rated ambient temperature:	*20°C*

SlebLOGICA system:	
Cabinet colour:	*light grey RAL 7035*
Colour of modules:	*black/red*

AutoLOGICA system:	
Cabinet colour:	*brilliant blue RAL 5007 or light grey RAL 7035*
Colour of modules:	*grey/blue*

Group battery system NGBVE

Group battery system NGBVE acc. to EN 50171 with:
- Control and monitoring system KOMBI CONTROL
- Charging unit L24/6
- Switching device to maintained mode
- Switching device to non-maintained mode
- Internal mains monitoring device for maintained mode
- Control input for external mains monitoring devices for non-maintained mode
- 1 or 3 rack compartments for transformers
- 3 or 9 rack compartments for operation and monitoring modules

Control cabinet with lockable door and inspection pane. Modules for 19" rack technology. Battery cabinet with lockable door and ventilating apertures.

Technical data

Mains supply:	*1 ~ N PE 50/60 Hz* *U : 230 V (+6%/-10)* *3 ~ N PE 50/60 Hz* *U : 400 V (+6%/-10)*
Fuse:	*25 A, 3-pole*
Terminals:	*10 mm²*
Battery supply:	*U= 24 V*
Fuse:	*max. 80 A, 2-pole*

Terminals:	*25 mm²*
Cable entry:	*from top*
Body:	*Steel sheet*
Mounting:	*Wall mounting*
Degree of protection:	*IP54/IP32*
Electrical class:	*I*
Rated ambient temperature:	*20°C*

SlebLOGICA system:	
Cabinet colour:	*light grey RAL 7035*
Colour of modules:	*black/red*

AutoLOGICA system:	
Cabinet colour:	*brilliant blue RAL 5007 or light grey RAL 7035*
Colour of modules:	*grey/blue*

Charging unit for NGBVA and NGBVE

Charging unit L24/6

Temperature-controlled charging based on IU characteristic with charging mode-dependent switching from charging to maintaining battery charging (float charging).

Technical data

Charge voltage:	*27 V*		
Charge current:	*6 A*		
Design:	*19“ rack insert (1 rack compartment)*		
Type:	*L24/6*		
Order no.:	***G32547-SL***	*Order no.:*	***G32547-AL***
Colour of modules:	*black/red*	*Colour of modules:*	*grey/blue*

Batteries for NGBVA and NGBVE

Sealed lead-acid battery with a lifetime expectation of 5+ years at an ambient temperature of 20°C acc. to EN 50171.

Technical data:

Battery capacity (Ah)		24	40	65	85	115
Battery voltage (V)				24		
Battery current (A)	1 h	14,8	23,7	35,5	50,3	62,5
Maximum load (W)	1 h	355	568	852	1207	1500
Battery current (A)	3 h	5,7	9,1	13,6	19,5	20,8
Maximum load (W)	3 h	136	218	327	468	500

Battery capacity and maximum permissible load

Transformer modules for NGBVA and NGBVE

Transformers WLG

Unit for the conversion of 24V input D.C. voltage (battery) to 230V output D.C. voltage. One transformer supplies up to three operation and monitoring modules in battery mode.

Technical data

Power:	*400 W*	*Power:*	*750 W*
Design:	*19“ rack insert (1 rack compartment)*	*Design:*	*19“ rack insert (2 rack compartments)*
Type:	*WLG 400*	*Type:*	*WLG 750*
Colour of modules:	*black/red*	*Colour of modules:*	*grey/blue*
Order no.:	***G32812-SL***	*Order no.:*	***G32811-SL***
Order no.:	***G32812-AL***	*Order no.:*	***G32811-AL***

System equipment:
NGBVA/NGBVE 24/6/___/1/3: 1 x WLG 400 or 1 x WLG 750
NGBVA/NGBVE 24/6/___/3/9: 2 x WLG 400 + 1 x WLG 750 or 3 x WLG 400

Design and configuration of NGBVA and NGBVE

The group battery systems NGBVA and NGBVE can be designed according to the instructions below:

1. Determine from the customer's specifications:
   - Quantity and technical details of the exit sign and emergency luminaires to be supplied (lamp type, lamp power, ballast lumen factor and gear)
   - Quantity and technical details of the circuits (maintained mode, non-maintained mode, selectively switchable non-maintained mode, selectively switching-on non-maintained mode)
   - Type of luminaire monitoring
2. Power consumption in mains and battery mode (lamp and gear manufacturer data)[1)]
3. Charging unit
4. Battery
5. Transformer(s) (system spreadsheet)
6. Operation and monitoring module (system spreadsheet)
7. Options (system spreadsheet)

Type: Defining the group battery system:

NGBVA
NGBVE 24/6/___/_/__/_/

Duration (h) (1=1 h/3=3 h)

Rack compartments needed for operation and monitoring modules

Rack compartments needed for transformers

Battery capacity (Ah) (see above)

Charge current (A)

1) Power consumption of the ECSL, ECKC and EC modules on request.

Compact emergency lighting systems NGBVE-K

Compact emergency lighting systems NGBVE-K

The compact emergency lighting systems NGBVE-K offer a combination of decentralised power supply and centralised monitoring. Taking advantage from both self-contained and central battery systems these installations provide safety at its highest level. Depending on national regulations, these include:

- Decentralised supply of exit sign and emergency luminaires per building, section or fire protection zone
- Centralised monitoring of the complete emergency lighting installation
- Lower number of cables and distribution boards
- Minimised fire load in corridors and staircases
- Simplified battery replacement

Special features:

- Control and monitoring by the SuperLOGICA system
- Luminaire operation in:
  - Maintained mode
  - Non-maintained mode
  - Non-maintained mode with selective switching to maintained mode via external general lighting switches
  - Non-maintained mode with selective switching in case of partial mains incidents/failures via external mains monitoring modules
- Combination of all options in a single circuit
- Permanent check of the general lighting switches or of the mains monitoring modules via control inputs within the luminaire or system
- Allocation of control information to different luminaires and circuits without limitation
- No manual addressing of the luminaire number at the control and monitoring module within the luminaire required
- No manual coding of the control input at the control and monitoring module within the luminaire required
- Automatic allocation of the required circuits and detection of luminaires
- Individual monitoring of 12 (20) luminaires in a circuit with or without selective irregularity report
- Automatic triggering of function and duration tests
- Automatic reporting to a test journal
- Centralised input and output of all parameters and data
- Operates luminaires with:
  - Incandescent lamps
  - Fluorescent tubes with electronic ballast

System spreadsheet NGBVE-K




Type	**NGBVE-K 24/3/_/1/1-3**	**NGBVE-K 24/3/_/2/1-3**	**NGBVE-K 24/3/_/1/1-3**	**NGBVE-K 24/3/_/2/1-3**
Charging unit L24/3	integrated	integrated	integrated	integrated
Batteries with a lifetime expectation of 5 years	24 Ah to 65 Ah	24 Ah to 65 Ah	24 Ah to 65 Ah	24 Ah to 65 Ah
Transformers WLG 400	integrated	integrated	integrated	integrated
Control and monitoring unit KOMBI CONTROL	integrated	integrated	integrated	integrated
Signalling and switching module MSM	optional	optional	optional	optional
Monitoring software LOGICA-Visual	optional	optional	optional	optional
USB interface	Choice of 1 only	Choice of 1 only	Choice of 1 only	Choice of 1 only
GSM interface				
TCP/IP interface				
Mains monitoring module DS 3 UV	optional	optional	optional	optional
Mains switch/contactor dependend control module LSSA 230	integrated (4)	integrated (4)	integrated (4)	integrated (4)
Mains switch/contactor dependend control module LSSA 24	integrated (4)	integrated (4)	integrated (4)	integrated (4)
Operation and monitoring modules AK 4 x 12 EÜ	Rack compartment (1)	Rack compartment (2)	Rack compartment (1)	Rack compartment (2)
Operation and monitoring modules AK 4 x 12 SÜ				
Design	Wall-mounted combi cabinet (electronics and battery)	Wall-mounted combi cabinet (electronics and battery)	Wall-mounted combi cabinet (electronics and battery)	Wall-mounted combi cabinet (electronics and battery)
Dimensions (HxWxD)	600x420x250 mm	600x420x250 mm	950x480x250 mm	950x480x250 mm

Compact emergency lighting system NGBVE-K

Compact emergency lighting system NGBVE-K acc. to EN 50171 with:

- Control and monitoring system KOMBI CONTROL
- Charging unit L24/3
- Switching device to maintained mode
- Switching device to non-maintained mode
- Internal mains monitoring device for maintained mode
- Control input for external mains monitoring devices for non-maintained mode
- 4 or 8 luminaire circuits
  - for individual monitoring without selective irregularity report
  - for individual monitoring with selective irregularity report
- 4 control inputs to switch selectively emergency lighting luminaire circuits from non-maintained to maintained mode depending on the general lighting. (control: 230V AC or DC)
- 4 control inputs switch individual emergency lighting luminaire circuits from non-maintained to maintained mode depending on partial incidents or failures of the general lighting. (control: isolated contact)
- Cabinet with separate electronics and battery compartments, lockable door with inspection pane and ventilation apertures in the battery compartment

Technical data

Mains supply:	*1 ~ /N PE 50 / 60 Hz* *U : 230 V (+6% / -10)* *3 ~ /N PE 50 / 60 Hz* *U : 400 V (+6% / -10)*
Fuse:	*20 A, 3-pole*
Terminals:	*6 mm²*
Battery supply:	*U= 24 V*
Fuse:	*max. 50 A, 2-pole*
Cable entry:	*from top*
Cabinet:	*Steel sheet, grey*
Mounting:	*Wall mounting*

Degree of protection:	*IP54 / IP32*
Electrical class:	*I*
Rated ambient temperature:	
Electronics	*-5°C to +35°C*
Battery	*20°C*

SlebLOGICA system:

Cabinet colour:	*light grey RAL 7035*
Colour of modules:	*black/red*

AutoLOGICA system:

Cabinet colour:	*brilliant blue RAL 5007 or light grey RAL 7035*
Colour of modules:	*grey/blue*

Batteries for NGBVE-K

Sealed lead-acid battery with a lifetime expectation of 5+ years at an ambient temperature of 20°C acc. to EN 50171.

Technical data

Battery capacity (Ah)		24	40	65
Maximum load (W)	1h	355	-	-
Maximum load (W)	3h	136	218	327

Battery capacity and maximum permissible load

Design and configuration of NGBVE-K

The compact emergency lighting systems NGBVE-K can be designed according to the instructions below:

1. Determine the following from the customer's specifications:
   - Quantity and technical details of the exit sign and emergency luminaires to be supplied (lamp type, lamp power, ballast lumen factor and gear)
   - Quantity and technical details of the circuits (maintained mode, non-maintained mode, selectively switchable non-maintained mode, selectively switching-on non-maintained mode)
   - Type of luminaire monitoring
2. Power consumption in battery mode (lamp and gear manufacturer data)[1)]
3. Battery (table 1)
4. Operation and monitoring module (system spreadsheet)
5. Options (system spreadsheet)

Type: NGBVE-K 24/3/__/_/1-3

Charge voltage
Charge current
Battery capacity
Operation and monitoring modules
Operation duration

1) Power consumption of the ECSL, ECKC and EC modules on request.

Battery capacity (Ah)		24	40	65
Maximum load (W)	1h	355	-	-
Maximum load (W)	3h	136	218	327

Table 1: Battery

Note:
When using modules from the SLEB and KCE range consider a power consumption of 1W per module.
Consider 10 W power consumption for every transformer.

Monitoring and control components

Monitoring system LOGICA-Visual

Panel PC
Processor: Pentium IV, 1,0 GHz
15” touch screen
80 GB hard disk
512 MB-RAM
WinXP and LOGICA-Visual pre-installed

Technical data

Design:	*19” rack insert*
Type:	*LOGICA-Visual*
Order code:	***F90210***

Interface modules for LOGICA-Visual

USB 2.0/RS485 interface

Module used to interface a group or central battery system with a PC running the monitoring software LOGICA-Visual.

Technical data

Mounting:	*Module for DIN rail*
Body:	*Metall*
Type:	*USB 2.0/RS485-NGZ*
Order code:	***FB16319***

GSM interface

Module used to interface a group or central battery system with a PC running the monitoring software LOGICA-Visual via the GSM network.

Technical data

Mounting:	*Module for DIN rail*
Body:	*Plastic*
Type:	*GSM interface*
Order code:	***FB16306-NZ***

TCP/IP interface

Module used to interface a group or central battery system with a PC running the monitoring software LOGICA-Visual via Ethernet.

Technical data

Mounting:	*Module for DIN rail*
Body:	*Metal*
Type:	*TCP/IP-NGZ*
Order code:	***G31209***

LON bus interface for NGBVA, NGBVE, NZBVA and NZBVE

LON bus interface LON-NGZ

Module for communication with a building management system via LON bus.
Control of:
- Maintained mode ON/OFF, function test and insulation test triggering

Signalling of:
- Emergency mode suppression ON/OFF, mains mode, battery mode, mains failure on main distribution board (phase L1, L2, and L3), mains failure on sub distribution board, group fault, charge fault, battery fault, luminaire fault, bus fault, deep discharge

Technical data

Mounting:	*DIN rail*	*Type:*	*LON-NGZ*
Body:	*Plastic*	*Order code:*	***G31206***

Signalling and switching module for NGBVA, NGBVE, NZBVA and NZBVE

Signalling and switching module MSM

Display of:
- Emergency mode suppression
- Operating mode
- Group fault

Control of:
- Maintained mode ON/OFF

Technical data

Mounting:	*Wall mounting*		
Body:	*Plastic*	*Electrical class:*	*II*
Dimensions (HxWxD):	*160 x 80 x 60 mm*	*Type:*	*MSM*
Degree of protection:	*IP 65*	*Order code:*	***G31015***

Signalling and switching module MSM

Display of:
- Emergency mode suppression
- Operating mode
- Group fault

Control of:
- Maintained mode ON/OFF

Technical data

Mounting:	*Recessed wall mounting*	*Degree of protection:*	*IP 20*
		Electrical class:	*I*
Body:	*Metall*	*Type:*	*MSM*
Dimensions (HxWxD):	*186 x 86 x 53 mm*	*Order code:*	***G31045***

Signalling and switching module MSM

Display of:
- Emergency mode suppression
- Operating mode
- Group fault

Control of:
- Maintained mode ON/OFF
- Stand by operation ON/OFF
- Stand by operation with reduced light output (e.g. for cinemas)

Technical data

Mounting:	*Wall installation*		
Housing:	*Plastic*	*Electrical class:*	*II*
Dimensions (HxWxD):	*185 x 245 x 107 mm*	*Type:*	*MSM*
Degree of protection:	*IP 65*	*Order code:*	***G31044***

Mains monitoring module for NGBVA, NGBVE, NZBVA and NZBVE

Mains monitoring module DS 3 UV

Module used in sub distribution boards to monitor the mains supply for general lighting.
Mains input: 3-phase
Control output: 2 change-over contacts, isolated (230V/3A)

Technical data

Mounting:	*DIN rail*		
Body:	*Plastic*	*Electrical class:*	*I*
Dimensions (HxWxD):	*95 x 48 x 42 mm*	*Type:*	*DS 3 UV*
Degree of protection:	*IP 20*	*Order code:*	***G31020A***

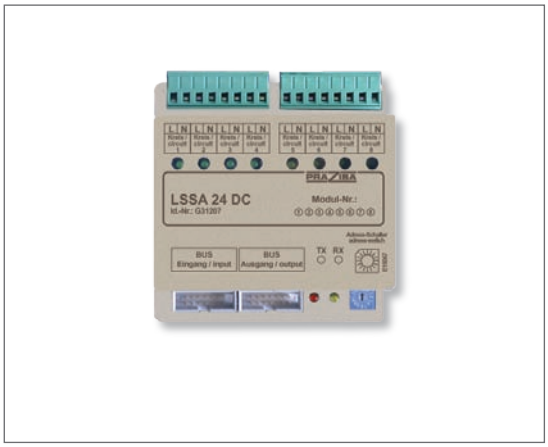
Switching modules for NGBVA, NGBVE, NZBVA and NZBVE

Mains switch/contactor dependent control module LSSA 230

Module for selective switching of individual emergency lighting luminaire circuits from non-maintained to maintained mode depending on the general lighting. Allocation of control channels to the luminaire circuits without limitation.

Technical data

Control channels:	*8*	*Body:*	*Plastic*
Control:	*230 V AC or DC*	*Type:*	*LSSA 230*
Mounting:	*DIN rail*	*Order code:*	***G31204***

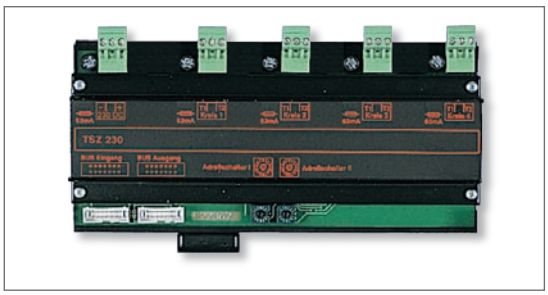


Mains switch/contactor dependent control module LSSA 24

Module used to selectively switch individual emergency lighting luminaire circuits from non-maintained to maintained mode depending on partial incidents or failures of the general lighting. Allocation of control channels to the luminaire circuits without limitation.

Technical data

Control channels:	*8*		
Control:	*switching contact, isolated*	*Body:* *Type:*	*Plastic* *LSSA 24*
Mounting:	*DIN rail*	*Order code:*	***G31207***



Staircase general/emergency lighting control module TSZ 230

Module used to time-dependent control individual luminaire circuits of emergency and general lighting via push buttons of the general lighting system acc. to DIN VDE 0108-4, section 6.2 and DIN VDE 0108-5, section 6.2. Allocation of control channels to the luminaire circuits without limitation.

Technical data

Control channels:	*4*	*Body:*	*Steel sheet*
Control:	*Push button*	*Type:*	*TSZ 230*
Mounting:	*DIN rail*	*Order code:*	***G31198***

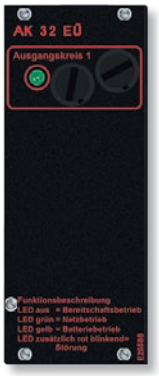
Printer for NGBVA, NGBVE, NZBVA and NZBVE

Printer ED

Technical data

Paper type:	*Thermal paper*		
Paper width:	*80 mm*	*Order code:*	***M10053A***
Design:	*19" rack insert*	*Printer paper*	
Type:	*ED*	*Order code:*	***H14146***

Operation and monitoring module for NGBVA, NGBVE, NZBVA and NZBVE



Operation and monitoring module AK 1 x 32 EÜ

Modules for one luminaire circuit to operate 1 x 20 (32) luminaires with:

- Incandescent lamps
- Halogen lamps + electronic transformer
- Fluorescent tubes + electronic ballast

Monitoring:

- Individual monitoring with selective irregularity report

Technical data

Maximum load:	*1 x 1380 W*	*Design:*	*19“ rack insert*
Inrush current load:	*1 x 42 500 W [1)]*		*(1 rack compartment)*
		Type:	*AK 1 x 32 EÜ*
Colour of modules:	*black/red*	*Colour of modules:*	*grey/blue*
Order code:	***G32754-SL***	*Order code:*	***G32100***

Operation and monitoring module AK 2 x 32 EÜ

Modules for 2 luminaire circuits to operate 2 x 20 (32) luminaires with:

- Incandescent lamps
- Halogen lamps + electronic transformer
- Fluorescent tubes + electronic ballast

Monitoring:

- Individual monitoring with selective irregularity report

Technical data

Maximum load:	*2 x 690 W*	*Design:*	*19“ rack insert*
Inrush current load:	*2 x 35 000 W [1)]*		*(1 rack compartment)*
		Type:	*AK 2 x 32 EÜ*
Colour of modules:	*black/red*	*Colour of modules:*	*grey/blue*
Order code:	***G32818-SL***	*Order code:*	***G32101***

Operation and monitoring module AK 4 x 32 EÜ

Modules for 4 luminaire circuits to operate 4 x 12 (20) luminaires with:

- Incandescent lamps
- Halogen lamps + electronic transformer
- Fluorescent tubes + electronic ballast

Monitoring:

- Individual monitoring with selective irregularity report

Technical data

Maximum load:	*4 x 345 W*	*Design:*	*19“ rack insert*
Inrush current load:	*4 x 27 500 W [1)]*		*(1 rack compartment)*
		Type:	*AK 4 x 32 EÜ*
Colour of modules:	*black/red*	*Colour of modules:*	*grey/blue*
Order code:	***G32824-SL***	*Order code:*	***G32102***

1) Max. power for 1 ms

Operation and monitoring module for NGBVA, NGBVE, NZBVA and NZBVE

Operation and monitoring module AK 1 x 32 SÜ

Modules for one luminaire circuit to operate 1 x 20 (32) luminaires with:
- Incandescent lamps
- Halogen lamps + electronic transformer
- Fluorescent tubes + electronic ballast

Monitoring:
- Individual monitoring without selective irregularity report

Technical data

Maximum load:	*1 x 1380 W*	*Design:*	*19" rack insert (1 rack compartment)*
Inrush current load:	*1 x 42 500 W* [1)]	*Type:*	*AK 1 x 32 SÜ*
Colour of modules:	*black/red*	*Colour of modules:*	*grey/blue*
Order code:	***G32797-SL***	*Order code:*	***G32103***

Operation and monitoring module AK 2 x 32 SÜ

Modules for 2 luminaire circuits to operate 2 x 20 (32) luminaires with:
- Incandescent lamps
- Halogen lamps + electronic transformer
- Fluorescent tubes + electronic ballast

Monitoring:
- Individual monitoring without selective irregularity report

Technical data

Maximum load:	*2 x 690 W*	*Design:*	*19" rack insert (1 rack compartment)*
Inrush current load:	*2 x 35 000 W* [1)]	*Type:*	*AK 2 x 32 SÜ*
Colour of modules:	*black/red*	*Colour of modules:*	*grey/blue*
Order code:	***G32815-SL***	*Order code:*	***G32104***

Operation and monitoring module AK 4 x 32 SÜ

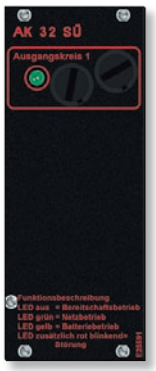
Modules for 4 luminaire circuits to operate 4 x 20 (32) luminaires with:
- Incandescent lamps
- Halogen lamps + electronic transformer
- Fluorescent tubes + electronic ballast

Monitoring:
- Individual monitoring without selective irregularity report

Technical data

Maximum load:	*4 x 345 W*	*Design:*	*19" rack insert (1 rack compartment)*
Inrush current load:	*4 x 27 500 W* [1)]	*Type:*	*AK 4 x 32 SÜ*
Colour of modules:	*black/red*	*Colour of modules:*	*grey/blue*
Order code:	***G32820-SL***	*Order code:*	***G32105***

1) Max. power for 1 ms



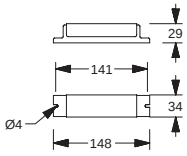
Operation and monitoring module AK 4 x 32 SÜ-AC

Modules for one luminaire circuit to operate 1 x 20 (32) luminaires with:
- Halogen lamps + magnetic transformer
- Fluorescent tubes + magnetic ballast (LPF circuit, non-compensated)

Monitoring:
- Individual monitoring without selective irregularity report

Technical data

Maximum load:	*575 VA/400 W*	*Design:*	*19" rack insert (1 rack compartment)*
Rated frequency:	*50 Hz (square wave)*	*Type:*	*AK 32 SÜ-AC*
Colour of modules:	*black/red*	*Colour of modules:*	*grey/blue*
Order code:	***G32857-SL***	*Order code:*	***G32857-AL***



Monitoring and switching module ALOG

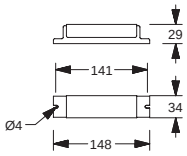
Module in *Super*LOGICA technology with following functions:

- Luminaire monitoring (lamp + gear) with selective irregularity report
- Luminaire allocation to modes:
  - Non-maintained mode/maintained mode/non-maintained mode, selectively switchable via internal LSSA control input or external LSSA control module
  - Transmission of the control information from an internal LSSA control input to further luminaires within the same or other luminaire circuits
- No need to manually encode the luminaire address at the module
- No need for the manual coding of the LSSA control input at the module

Every module and every luminaire is equipped with an identification code. There is no manual addressing required.

Technical data

Lamp or system power:	*5 W to 120W*		*luminaires*
Mains voltage:	*198 V bis 254 V*	*Body:*	*Metal*
Mains frequency:	*50 Hz*	*Degree of protection:*	*IP 20*
Battery voltage:	*176 V bis 254 V*	*Electrical class:*	*I*
Rated ambient temperature:	*- 10° C to + 50 °C*	*Type:*	*ALOG*
Mounting:	*to be installed in*	*Order code:*	***G31351***

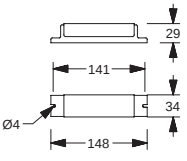


Monitoring and switching module ALOG-DALI

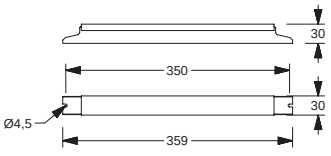
Module with the same functions as the module ALOG, but with DALI control input to connect with luminaires featuring a DALI control unit.

Technical data

Type:	*ALOG-DALI*
Order no.:	***G31354***



G313xx



G313xx

Monitoring and switching module with HF-ballast

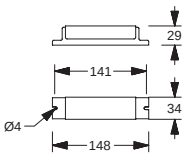
Module is a combination of a HF-ballast type EC and the ALOG monitoring and switching unit.

- HF-ballast available with fixed or variable ballast lumen factor

Technical data

Mains voltage:	*198 V bis 254 V*
Battery voltage:	*176 V bis 254 V*
Mains frequency:	*50 Hz*
Ambient temperature:	*- 10° C bis + 50 °C*
Mounting:	*to be installed in luminaires*
Body:	*Metal*
Degree of protection:	*IP 20*
Electrical class:	*I*

Order code	Lamp	Ballast lumen factor
G31352	T16-Lp 4 - 13 W	75%
	TC-Lp 5 - 11 W	75%
G31353	T16-Lp 14 - 21 W	10% - 100%
	T26-Lp 18 W	10% - 100%
	TC-Lp 13 - 26 W	10% - 100%
G31357	T16-Lp 28 - 80 W	10% - 100%
	T26-Lp 36 - 58 W	10% - 100%
	TC-Lp 32 - 55 W	10% - 100%



G313xx

Monitoring and switching module with LED ballast

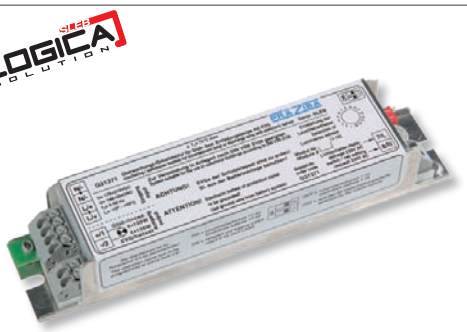
Module is a combination of a operation unit for LEDs and the ALOG monitoring and switching unit.

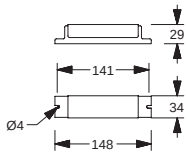
Technical data

Output voltage: *15 - 22,5V to operate 2 – 5 Power LEDs (serial connection)*

LED current: *400 mA*

Order code	Lamp	Ballast lumen factor
G31355	2 - 4 PowerLEDs	100%
G31356	3 - 5 PowerLEDs	100%





Monitoring and switching module SLEB

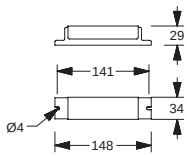
Module in *Super*LOGICA technology with following functions:

- Luminaire monitoring (lamp + gear) with selective irregularity report
- Luminaire allocation to modes:
  - Non-maintained mode/maintained mode/non-maintained mode, selectively switchable via internal LSSA control input or external LSSA control module
  - Transmission of the control information from an internal LSSA control input to further luminaires within the same or other luminaire circuits
- No need to manually encode the luminaire address at the module
- No need for the manual coding of the LSSA control input at the module

Every module and every luminaire is equipped with an identification code. There is no manual addressing required

Technical data

Lamp or system power:	*5 W to 120W*		*luminaires*
Mains voltage:	*198 V bis 254 V*	*Body:*	*Metal*
Mains frequency:	*50 Hz*	*Degree of protection:*	*IP 20*
Battery voltage:	*176 V bis 254 V*	*Electrical class:*	*I*
Rated ambient temperature:	*- 10° C to + 50 °C*	*Type:*	*SLEB*
Mounting:	*to be installed in*	*Order no.:*	***G31371***



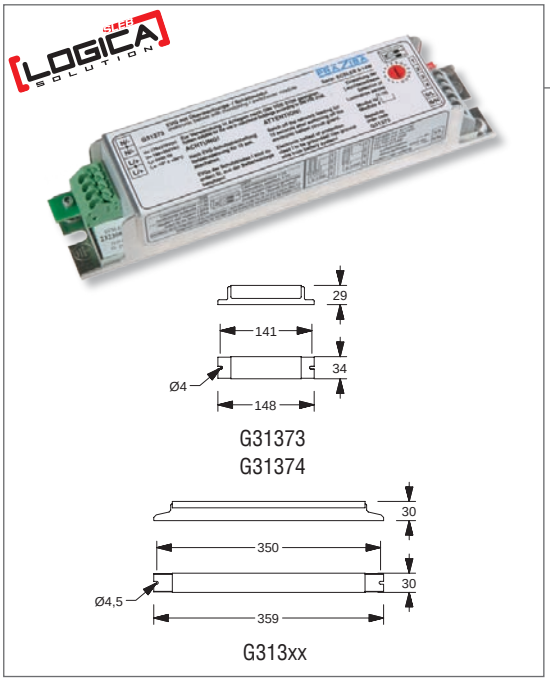
Monitoring and switching module SLEB-DALI

Module with the same functions as the module SLEB, but with DALI control input to connect with luminaires featuring a DALI control unit.

Technical data

Type: *SLEB-DALI*

Order no.: ***G31372***



Monitoring and switching module with HF-ballast

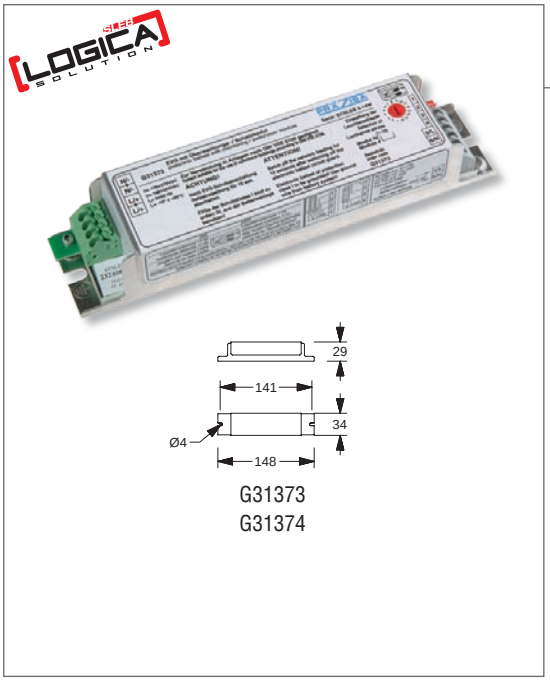
Module is a combination of a HF-ballast type EC and the SLEB monitoring and switching unit.

- HF-ballast available with fixed or variable ballast lumen factor

Technical data

Mains voltage:	*198 V bis 254 V*
Battery voltage:	*176 V bis 254 V*
Mains frequency:	*50 Hz*
Ambient temperature:	*- 10° C bis + 50 °C*
Mounting:	*to be installed in luminaires*
Body:	*Metal*
Degree of protection:	*IP 20*
Electrical class:	*I*

Order code	Lamp	Ballast lumen factor
G31373	T16-Lp 4 - 13 W	75%
	TC-Lp 5 - 11 W	75%
G31374	T16-Lp 14 - 21 W	10% - 100%
	T26-Lp 18 W	10% - 100%
	TC-Lp 13 - 26 W	10% - 100%
G31382	T16-Lp 28 - 80 W	10% - 100%
	T26-Lp 36 - 58 W	10% - 100%
	TC-Lp 32 - 55 W	10% - 100%



Monitoring and switching module with LED ballast

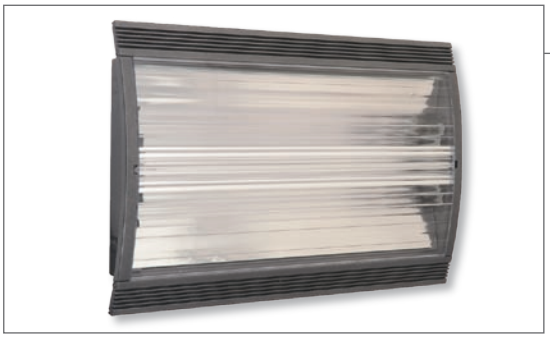
Module is a combination of a operation unit for LEDs and the SLEB monitoring and switching unit.

Technical data

Output voltage:	*15 - 22,5V to operate 2 – 5 Power LEDs (serial connection)*
LED current:	*400 mA*

Order code	Lamp	Ballast lumen factor
G31360	2 - 4 PowerLEDs	100%
G31361	3 - 5 PowerLEDs	100%

Exit sign and emergency luminaires for Central and Group Battery Systems



Arcus V

Description: Emergency luminaire in elegant style with convex body. Front surface designed as a pane, projecting on all sides. Light distribution by mirror reflector and transparent cover with longitudinal prisms.
Special features: Architectural look, sleek design, wide beam light distribution, high light output ratio, also available as exit sign luminaire.

Technical details see pages 110 - 117

Technical data

Mounting:
Wall or ceiling mounting

Body:
Die-cast aluminium and extruded aluminium, anthracite RAL 9007

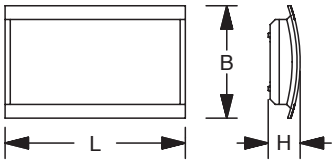
Diffuser:
Prismatic polycarbonate

Reflector:
Specular aluminium

Mains supply:
198 V - 254 V / 50 Hz

Battery supply:
176 V - 254 V

Ambient temperature:
-10 to +40 °C



W	• Dimensions (mm) •		
	L	B	H
8	348	217	62

IP40

T5

230V
50Hz

Order Code	Lamp		EVG	SLEB	AUTO	NEA
T92316_*	T5 8 W	**Ballast lumen factor:**	100%	75%	75%	100%

* Order code with **suffix E**: e. g. TnnnnE = Luminaire with HF ballast without monitoring modules
Order code with **suffix S**: e. g. TnnnnS = Luminaire with HF ballast with monitoring module, manual coding
Order code with **suffix A**: e. g. TnnnnA = Luminaire with HF ballast with monitoring module, automatic coding
Order code with **suffix N**: e. g. TnnnnN = Luminaire with HF ballast suitable for LOGICA-NEA emergency lighting systems

Design

Description: Emergency luminaire in functional style, consisting of semi-circular sections and flat end caps. Light distribution by mirror reflector and transparent cover with longitudinal prisms.
Special features: Functional look, extremely sleek design, wide beam light distribution, high light output ratio, also available as exit sign luminaire.

Technical details see pages 110 - 117

Technical data

Mounting:
Wall or ceiling mounting

Body:
Sheet steel, white (RAL 9003)[1)]

Diffuser:
Plastic with longitudinal prisms

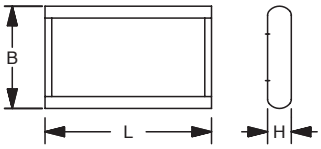
Reflector:
Specular aluminium

Mains supply:
198 V - 254 V / 50 Hz

Battery supply:
176 V - 254 V

Ambient temperature:
-10 to +40 °C

1) Design with aluminium body available on request



W	• Dimensions (mm) •		
	L	B	H
8	386	237	55

IP40

T5 230V 50Hz

LOGICA AUTO SOLUTION

LOGICA SLEB SOLUTION

LOGICA NEA SOLUTION

Order Code	Lamp		EVG	SLEB	AUTO	NEA
TM92548_*	T5 8 W	**Ballast lumen factor:**	100%	75%	75%	100%

* Order code with **suffix E**: e. g. TnnnnE = Luminaire with HF ballast without monitoring modules
Order code with **suffix S**: e. g. TnnnnS = Luminaire with HF ballast with monitoring module, manual coding
Order code with **suffix A**: e. g. TnnnnA = Luminaire with HF ballast with monitoring module, automatic coding
Order code with **suffix N**: e. g. TnnnnN = Luminaire with HF ballast suitable for LOGICA-NEA emergency lighting systems

Kubus

Description: Emergency luminaire, consisting of flat sections with folded corners. Light distribution by mirror reflector and cover with longitudinal prisms. Special features: Functional look, also available as exit sign luminaire.

Technical details see pages 110 - 117

Technical data

Mounting:
Wall or ceiling mounting

Body:
Sheet steel, white (RAL 9003)[1)]

Diffuser:
Plastic with longitudinal prisms

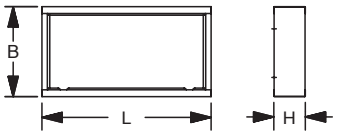
Reflector:
Specular aluminium

Mains supply:
198 V - 254 V / 50 Hz

Battery supply:
176 V - 254 V

Ambient temperature:
-10 to +40 °C

1) Design with aluminium body available on request



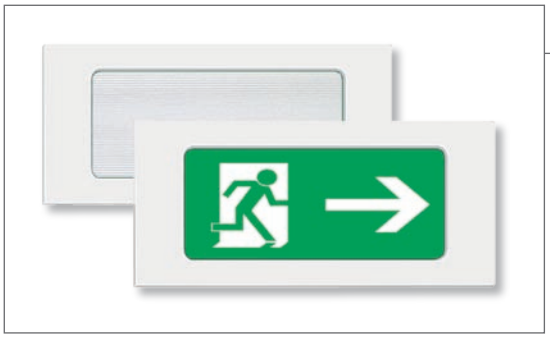
W	• Dimensions (mm) •		
	L	B	H
8	376	200	70

IP40

T5 230V 50Hz

Order Code	Lamp		EVG	SLEB	AUTO	NEA
TM92678_*	T5 8 W	**Ballast lumen factor:**	100%	75%	75%	100%

* Order code with **suffix E**: e. g. TnnnnE = Luminaire with HF ballast without monitoring modules
Order code with **suffix S**: e. g. TnnnnS = Luminaire with HF ballast with monitoring module, manual coding
Order code with **suffix A**: e. g. TnnnnA = Luminaire with HF ballast with monitoring module, automatic coding
Order code with **suffix N**: e. g. TnnnnN = Luminaire with HF ballast suitable for LOGICA-NEA emergency lighting systems



Intos

Description: Emergency luminaire in industrial design with recessed box and opal diffuser fixed in white painted frame. Light distribution by aluminium reflector and opal diffuser. Single face exit signs available.
Special features: designed for industrial areas, robust, shock proof.

Technical details see pages 110 - 117

Technical data

Mounting:
Recessed wall or ceiling mounting

Body:
Sheet steel white (RAL 9003)

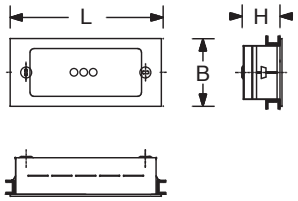
Diffuser:
Clear acrylic with prisms

Reflector:
Specular aluminium

Mains supply:
198 V - 254 V / 50 Hz

Battery supply:
176 V - 254 V

Ambient temperature:
-10 to +40 °C



W	• Dimensions (mm) •			Version
	L	B	H	
8	385	170	95	single sided

T5 IP20

26m 230V 50Hz

LOGICA AUTO SOLUTION
LOGICA SLEB SOLUTION
LOGICA NEA SOLUTION

Accessories, to be ordered separately		
Order Code 8W	**Description**	**Article**
E16266N	Exit sign pane	
E16267N	Exit sign pane	
E16268N	Exit sign pane	
E16265	Opal pane	

Order Code	Lamp		EVG	SLEB	AUTO	NEA
T92400_*	T5 8 W	**Ballast lumen factor:**	100%	75%	75%	100%

* Order code with **suffix E**: e. g. TnnnnE = Luminaire with HF ballast without monitoring modules
Order code with **suffix S**: e. g. TnnnnS = Luminaire with HF ballast with monitoring module, manual coding
Order code with **suffix A**: e. g. TnnnnA = Luminaire with HF ballast with monitoring module, automatic coding
Order code with **suffix N**: e. g. TnnnnN = Luminaire with HF ballast suitable for LOGICA-NEA emergency lighting systems

Crater

Description: Emergency luminaire in functional style, consisting of a round recessed or surface mounted box and specular aluminium reflector. Horizontal lamp orientation.
Special features: Functional look, emergency luminaires also available as general lighting luminaires.

Technical details see pages 110 - 117

Technical data

Mounting:
Recessed or surface mounting

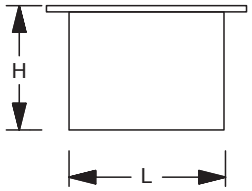
Body:
Steel sheet, white (RAL 9003)

Diffuser:
Specular aluminium

Mains supply:
198 V - 254 V / 50 Hz

Battery supply:
176 V - 254 V

Ambient temperature:
-10 to +40 °C



W	• Dimensions (mm) •		
	L	B	H
13	265	-	200

IP20

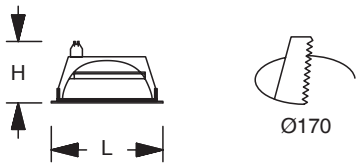
CFL 4pin/4lb

230V 50Hz

LOGICA AUTO SOLUTION

LOGICA SLEB SOLUTION

LOGICA NEA SOLUTION



W	• Dimensions (mm) •		
	L	B	H
13	190	-	105

Order Code	Lamp		EVG	SLEB	AUTO	NEA
Recessed type						
T92078_*	CFL 4pin/4lb 13 W	**Ballast lumen factor:**	100%	75%	75%	100%
Surface mounted type						
T92079_*	CFL 4pin/4lb 13 W	**Ballast lumen factor:**	100%	75%	75%	100%

* Order code with **suffix E**: e. g. TnnnnE = Luminaire with HF ballast without monitoring modules
Order code with **suffix S**: e. g. TnnnnS = Luminaire with HF ballast with monitoring module, manual coding
Order code with **suffix A**: e. g. TnnnnA = Luminaire with HF ballast with monitoring module, automatic coding
Order code with **suffix N**: e. g. TnnnnN = Luminaire with HF ballast suitable for LOGICA-NEA emergency lighting systems

MetricaLED

Description: Emergency lighting luminaire with optical system designed for wall installation. Sleek, elegant body of white polycarbonate with clear cover. Light distribution by facetted mirror reflector. Innovative powerful 1 Watt light source with very long lifetime (Power LED).
Special features: attractive design combined with robust and shockproof body. Versions with IP 40 or IP 65 protection available.

Technical details see pages 110 - 117

Technical data

Mounting:
Wall mounting

Body:
Polycarbonate white

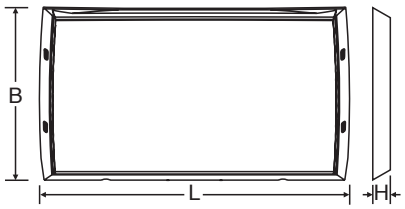
Cover:
Clear polycarbonate

Reflector:
Polycarbonate aluminised and welded with the cover

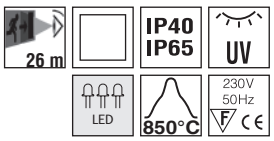
Mains supply:
198V – 254V / 50Hz

Battery supply:
176V - 254V

Ambient temperature:
-10 to +40 °C



Ref- Watt	• Dimensions (mm) • L	B	H	LED lumens
8	355	179	57	2 x 30 lm



Fitting supplied complete with		
Order Code 8 RW	**Description**	**Article**
FB12941	Exit signs (Set with all 3 films)	

Accessories, to be ordered separately	
Order Code 8 RW	**Description**
FB12943	Kit for recessed installation
FB3908	Wire guard

Order Code	Lamp		EVG	SLEB	AUTO	NEA
TB16104	LED 2x1W	**Ballast lumen factor:**	100%			
TB16106	LED 2x1W	**Ballast lumen factor:**		100%		
TB16107	LED 2x1W	**Ballast lumen factor:**			100%	
TB16108	LED 2x1W	**Ballast lumen factor:**				100%

Logica

Description: Exit sign and emergency luminaire in a functional style, consisting of a body with convex contours and a flat transparent cover. Light distribution by mirror reflector of aluminised plastic with complex shape. Single sided exit route sign (surface and recessed mounting on ceiling and walls). Luminaires supplied with three exit sign films and recess box.
Special features: Functional look, wide beam light distribution, high light output ratio, suited for exit route signalling or exit route lighting, choice of surface or recessed mounting, surface mounting via quick fix adapter with integrated bubble level.

Technical details see pages 110 - 117

Technical data

Mounting:
Surface and recessed wall mounting, surface and recessed ceiling mounting

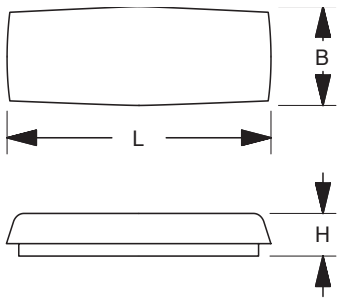
Body and diffuser:
polycarbonate

Reflector:
polycarbonate specular aluminised

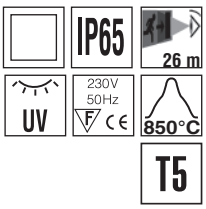
Mains supply:
198 V - 254 V / 50 Hz

Battery supply:
176 V - 254 V

Ambient temperature:
-10 to +40 °C



W	• Dimensions (mm) •		
	L	B	H
8	406	147	63



Fitting supplied complete with		
Order Code	**Description**	**Article**
8W		
FB16909	Exit signs (Set with all 3 films)	
FB12198	Box for recessed mounting	

Accessories, to be ordered separately	
Order Code	**Description**
8W	
FB12194	Wire guard

Order Code	Lamp		EVG	SLEB	AUTO	NEA
TB16400	T5 8 W	**Ballast lumen factor:**	100%			
TB16401	T5 8 W	**Ballast lumen factor:**		75%		
TB16406	T5 8 W	**Ballast lumen factor:**			75%	
TB16407	T5 8 W	**Ballast lumen factor:**				100%

Aestetica

Description: Exit sign and emergency luminaire in sleek design, consisting of a flat body and an oval transparent cover. Light distribution by white reflector. Single sided exit route sign (wall mounting). Luminaire supplied with three exit sign films.
Special features: sleek design, suited for exit route signalling or exit route lighting.

Technical details see pages 110 - 117

Technical data

Mounting:
Wall or ceiling mounting

Body:
white polycarbonate

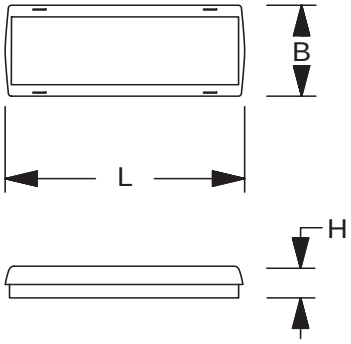
Diffuser:
transparent polycarbonate

Reflector:
white polycarbonate

Mains supply:
198 V - 254 V / 50 Hz

Battery supply:
176 V - 254 V

Ambient temperature:
-10 to +40 °C



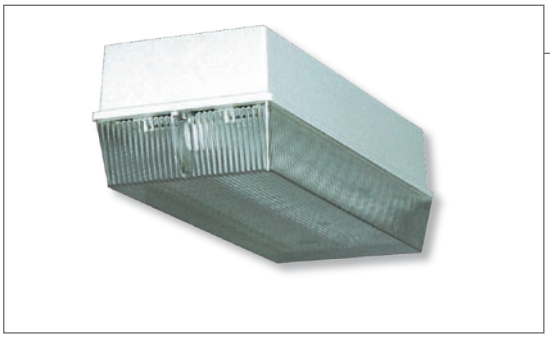
W	• Dimensions (mm) •		
	L	B	H
8	336	135	47

T5 IP40 22m 230V 50Hz

Fitting supplied complete with		
Order Code	**Description**	**Article**
8W		
FB16905	Exit signs (Set with all 3 films)	

Accessories, to be ordered separately	
Order Code	**Description**
8W	
FB3908	Wire guard

Order Code	Lamp		EVG	SLEB	AUTO	NEA
TB16203	T5 8 W	**Ballast lumen factor:**	100%			
TB16204	T5 8 W	**Ballast lumen factor:**		75%		
TB16210	T5 8 W	**Ballast lumen factor:**			75%	
TB16211	T5 8 W	**Ballast lumen factor:**				100%



Indus

Description: Emergency luminaire in industrial style with flat body and prismatic diffuser. Light distribution by white reflector. Installation on ceiling, wall or wall bracket.
Special features: industrial design, robust and shockproof.

Technical details see pages 110 - 117

Technical data

Mounting:
Ceiling, wall or wall bracket

Body:
White polycarbonate

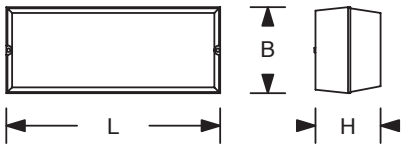
Diffuser:
Prismatic polycarbonate

Reflector:
White polycarbonate

Mains supply:
198V – 254V / 50Hz

Battery supply:
176 V - 254 V

Ambient temperature:
-10 to +40 °C



W	• Dimensions (mm) •			Version
	L	B	H	
8	368	148	112	single sided

IP54 · 26m · T5 · 230V 50Hz

Accessories, to be ordered separately	
Order Code	**Description**
8W	
F95029	Wall bracket
F95032	Wire guard

Order Code	Lamp		EVG	SLEB	AUTO	NEA
T92161_*	T5 8 W	**Ballast lumen factor:**	100%	75%	75%	100%

* Order code with **suffix E**: e. g. TnnnnE = Luminaire with HF ballast without monitoring modules
Order code with **suffix S**: e. g. TnnnnS = Luminaire with HF ballast with monitoring module, manual coding
Order code with **suffix A**: e. g. TnnnnA = Luminaire with HF ballast with monitoring module, automatic coding
Order code with **suffix N**: e. g. TnnnnN = Luminaire with HF ballast suitable for LOGICA-NEA emergency lighting systems

Pratica Tuttovetro

Description: Exit sign and emergency luminaire in an industrial style, consisting of a flat body and a rectangular transparent cover. Light distribution by white reflector. Single sided exit route sign (wall mounting). Luminaire supplied with three exit sign films.
Special features: Industrial look, improved degree of protection to IP65 by auxiliary box. Suited for exit route signalling or exit route lighting. Quick fix adapter for IP40 version

Technical details see pages 110 - 117

Technical data

Mounting:
Wall or ceiling mounting

Body:
ABS plastic

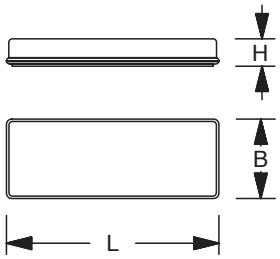
Diffuser:
Transparent polycarbonate

Reflector:
White polycarbonate

Mains supply:
198 V - 254 V / 50 Hz

Battery supply:
176 V - 254 V

Ambient temperature:
-10 to +40 °C



W	• Dimensions (mm) •		
	L	B	H
6	304	142	49
8	380	142	49

IP40
IP65
T5
24m
230V
50Hz

Fitting supplied complete with			
Order Code		Description	Article
6W	8W		
FBxxxxx		Exit signs	
	FB16901	Exit signs	
		(Set with all 3 films)	

Accessories, to be ordered separately		
Order Code		Description
6W	8W	
FB2733	FB2734	IP 65 auxiliary box
FB3907	FB3908	Wire guard

Order Code	Lamp		EVG	SLEB	AUTO	NEA
TB16000	T5 6 W	Ballast lumen factor:	100%			
TB16001	T5 6 W	Ballast lumen factor:		75%		
TB16013	T5 6 W	Ballast lumen factor:			75%	
TB16014	T5 6 W	Ballast lumen factor:				100%
TB16003	T5 8 W	Ballast lumen factor:	100%			
TB16004	T5 8 W	Ballast lumen factor:		75%		
TB16011	T5 8 W	Ballast lumen factor:			75%	
TB16012	T5 8 W	Ballast lumen factor:				100%

Leader

Description: Emergency luminaire in industrial style, consisting of an oval body and diffuser. Transparent diffuser with longitudinal and lateral prisms. Light distribution by specular reflector of aluminised plastic with complex shape. Special features: Industrial look, optimal light distribution, high light output ratio, emergency Luminaires also available for general lighting. Twin lamp fittings with one lamp operating in emergency mode are available on request.

Technical details see pages 110 - 117

Technical data

Mounting:
Ceiling or wall

Body:
Grey polycarbonate

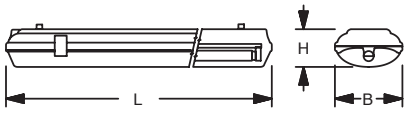
Diffuser:
Prismatic polycarbonate

Reflector:
Specular aluminised polycarbonate

Mains supply:
198 V - 254 V / 50 Hz

Battery supply:
176 V - 254 V

Ambient temperature:
-10 to +40 °C



W	• Dimensions (mm) •		
	L	B	H
18	670	170	95
36	1280	170	95
58	1580	170	95

IP66

T8 230V 50Hz

Order Code	Lamp		EVG	SLEB	AUTO	NEA
T92071_*	für T16 18 W	**Ballast lumen factor:**	100%	100%	100%	100%
T92072_*	für T16 36 W	**Ballast lumen factor:**	100%	100%	100%	100%
T92073_*	für T16 58 W	**Ballast lumen factor:**	100%	100%	100%	100%

* Order code with **suffix E**: e. g. TnnnnE = Luminaire with HF ballast without monitoring modules
Order code with **suffix S**: e. g. TnnnnS = Luminaire with HF ballast with monitoring module, manual coding
Order code with **suffix A**: e. g. TnnnnA = Luminaire with HF ballast with monitoring module, automatic coding
Order code with **suffix N**: e. g. TnnnnN = Luminaire with HF ballast suitable for LOGICA-NEA emergency lighting systems

Stufen

Description: Emergency luminaire consisting of recess box and cover with asymmetric shutter blade apertures.
Special features: Low level lighting of corridors and staircases. Also suitable for exterior lighting.

Technical details see pages 110 - 117

Technical data

Mounting:
Recessed wall mounting

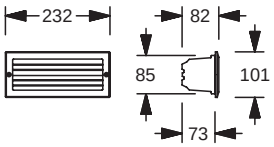
Body:
Die-cast aluminium, white

Cover:
Die-cast aluminium, black

Mains supply:
198 V - 254 V / 50 Hz

Battery supply:
176 V - 254 V

Ambient temperature:
-10 to +40 °C



Cutout dimensions: 228 x 85mm

T5 IP54

Accessories, to be ordered separately	
Order Code	**Description**
4W	
E25582	Recess box (for plasterboard walls)

Order Code	Lamp		EVG	SLEB	AUTO	NEA
T92003_*	für T5 4 W	**Ballast lumen factor:**	100%	75%	75%	100%

* Order code with **suffix E**: e. g. TnnnnE = Luminaire with HF ballast without monitoring modules
Order code with **suffix S**: e. g. TnnnnS = Luminaire with HF ballast with monitoring module, manual coding
Order code with **suffix A**: e. g. TnnnnA = Luminaire with HF ballast with monitoring module, automatic coding
Order code with **suffix N**: e. g. TnnnnN = Luminaire with HF ballast suitable for LOGICA-NEA emergency lighting systems

Pylon

Description: Emergency luminaire consisting of recess box and flat circular reflector cover. Bare lamp without protection.
Special features: Omni-directional exit route lighting.

Technical details see pages 110 - 117

Technical data

Mounting:
Recessed ceiling mounting

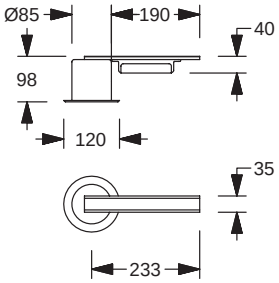
Body:
Sheet steel, white

Cover:
Die-cast aluminium, white

Mains supply:
198 V - 254 V / 50 Hz

Battery supply:
176 V - 254 V

Ambient temperature:
-10 to +40 °C



CFL 4pin/4lb

IP40

LOGICA AUTO SOLUTION

LOGICA SLEB SOLUTION

LOGICA NEA SOLUTION

Order Code	Lamp		EVG	SLEB	AUTO	NEA
T92141_*	CFL 4pin/4lb 13 W	**Ballast lumen factor:**	100%	75%	75%	100%

* Order code with **suffix E**: e. g. TnnnnE = Luminaire with HF ballast without monitoring modules
Order code with **suffix S**: e. g. TnnnnS = Luminaire with HF ballast with monitoring module, manual coding
Order code with **suffix A**: e. g. TnnnnA = Luminaire with HF ballast with monitoring module, automatic coding
Order code with **suffix N**: e. g. TnnnnN = Luminaire with HF ballast suitable for LOGICA-NEA emergency lighting systems

Arcus V

Description: Exit sign luminaire in elegant style with convex body. Front surface designed as a pane, projecting on all sides. Choice of single sided (wall mounting) or double sided (ceiling, pendant suspended and bracket mounting) exit sign.
Special features: Architectural look, sleek design, wide beam light distribution, high light output ratio, also available as emergency luminaire.

Technical details see pages 110 - 117

Technical data

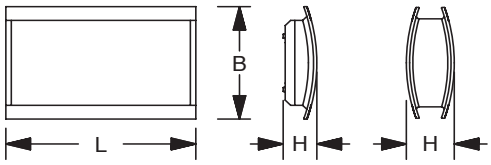
Mounting:
Wall or ceiling mounting

Body:
Die-cast aluminium and extruded aluminium, anthracite RAL 9007

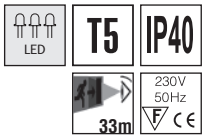
Mains supply:
198 V - 254 V / 50 Hz

Battery supply:
176 V - 254 V

Ambient temperature:
-10 to +40 °C



W	• Dimensions (mm) •			Version
	L	B	H	
8	348	217	62	single sided
8	348	217	89	double sided



LOGICA AUTO SOLUTION
LOGICA SLEB SOLUTION
LOGICA NEA SOLUTION

Accessories, to be ordered separately		
Order Code	**Description**	**Article**
8W		
E16282N	Exit sign pane	
E16283N	Exit sign pane	
E16284N	Exit sign pane	
E16302	Opal pane	
E16285	Pane in body colour	
F95104	Adaptor for ceiling mounting	
F95083	Suspension profile 250 mm	
F95084	Suspension profile 500 mm	
F95085	Suspension profile 1000 mm	
F95064	Wall bracket	
F95402	Pendant rod 500 mm	
F95403	Wire suspension max. 1200 mm	

Order Code	Lamp		EVG	SLEB	AUTO	NEA
Single sided exit sign						
T92304_*	T5 8 W	**Ballast lumen factor:**	100%	75%	75%	100%
T92333_*	LED 5 x 1W	**Ballast lumen factor:**	100%	100%	100%	100%
Double sided exit sign						
T92305_*	T5 8 W	**Ballast lumen factor:**	100%	75%	75%	100%
T92334_*	LED 5 x 1W	**Ballast lumen factor:**	100%	100%	100%	100%

* Order code with **suffix E**: e. g. TnnnnE = Luminaire with HF ballast without monitoring modules
Order code with **suffix S**: e. g. TnnnnS = Luminaire with HF ballast with monitoring module, manual coding
Order code with **suffix A**: e. g. TnnnnA = Luminaire with HF ballast with monitoring module, automatic coding
Order code with **suffix N**: e. g. TnnnnN = Luminaire with HF ballast suitable for LOGICA-NEA emergency lighting systems

Design

Description: Exit sign luminaire in functional style, consisting of semi-circular sections and flat end caps. Choice of single sided (wall mounting) or double sided (ceiling, pendant suspended and bracket mounting) exit sign.
Special features: Functional look, extremely sleek design, wide beam light distribution, high light output ratio, also available as emergency luminaire.

Technical details see pages 110 - 117

Technical data

Mounting:
Wall or ceiling mounting

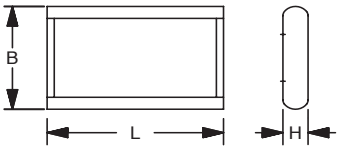
Body:
Sheet steel, white (RAL 9003)[1)]

Mains supply:
198 V - 254 V / 50 Hz

Battery supply:
176 V - 254 V

Ambient temperature:
-10 to +40 °C

1) Design with aluminium body available on request



W	• Dimensions (mm) •		
	L	B	H
6	265	175	55
8	386	237	55

LED | T5 | IP40 | 23-35m | 230V 50Hz

LOGICA AUTO SOLUTION
LOGICA SLEB SOLUTION
LOGICA NEA SOLUTION

Accessories, to be ordered separately			
Order Code		Description	Article
6W	8W		
E16604N	E16608N	Exit sign pane	
E16605N	E16609N	Exit sign pane	
E16606N	E16610N	Exit sign pane	
E16607	E16611	Opal pane	
E16242	E16241	Pane in body colour	
F95057	F95057	Adaptor for ceiling mounting	
F95100	F95100	Suspension profile 250 mm	
F95101	F95101	Suspension profile 500 mm	
F95102	F95102	Suspension profile 1000 mm	
F95022	F95035	Wall bracket	
F95067	F95067	Adaptor for wire suspension	
F95400	F95400	Pendant rod 500 mm	
F95401	F95401	Wire suspension max. 1200 mm	
	F95032	Wire guard (Wall mounting)	

Order Code	Lamp		EVG	SLEB	AUTO	NEA
Single sided exit sign						
TM92544_*	T5 6 W	**Ballast lumen factor:**	100%	75%	75%	100%
TM92545_*	LED 3 x 1W	**Ballast lumen factor:**	100%	100%	100%	100%
TM92540_*	T5 8 W	**Ballast lumen factor:**	100%	75%	75%	100%
TM92549_*	LED 5 x 1W	**Ballast lumen factor:**	100%	100%	100%	100%
Double sided exit sign						
TM92546_*	T5 6 W	**Ballast lumen factor:**	100%	75%	75%	100%
TM92551_*	LED 3 x 1W	**Ballast lumen factor:**	100%	100%	100%	100%
TM92542_*	T5 8 W	**Ballast lumen factor:**	100%	75%	75%	100%
TM92550_*	LED 5 x 1W	**Ballast lumen factor:**	100%	100%	100%	100%

* Order code with **suffix E**: e. g. TnnnnE = Luminaire with HF ballast without monitoring modules
Order code with **suffix S**: e. g. TnnnnS = Luminaire with HF ballast with monitoring module, manual coding
Order code with **suffix A**: e. g. TnnnnA = Luminaire with HF ballast with monitoring module, automatic coding
Order code with **suffix N**: e. g. TnnnnN = Luminaire with HF ballast suitable for LOGICA-NEA emergency lighting systems

Kubus

Description: Exit sign luminaire, consisting of flat sections with folded corners. Choice of single sided (wall mounting) or double sided (ceiling, pendant suspended and bracket mounting) exit sign.
Luminaires are supplied without panes and accessories.
Special features: Functional look, choice of 3 visibility distances, also available as emergency luminaire.

Technical details see pages 110 - 117

Technical data

Mounting:
Wall or ceiling mounting

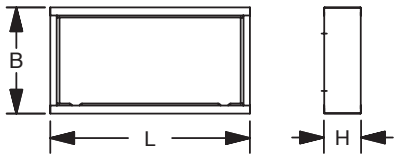
Body:
Sheet steel, white (RAL 9003) [1)]

Mains supply:
198 V - 254 V / 50 Hz

Battery supply:
176 V - 254 V

Ambient temperature:
-10 to +40 °C

1) Design with aluminium body available on request



W	• Dimensions (mm) •		
	L	B	H
6	255	140	70
8	376	200	70
13	605	315	70

LED | T5 | IP40 | 230V 50Hz | 23-35-60m

LOGICA AUTO SOLUTION
LOGICA SLEB SOLUTION
LOGICA NEA SOLUTION

Accessories, to be ordered separately				
Order Code			Description	Article
6W	8W	13W		
E16604N	E16608N	E16134N	Exit sign pane	
E16605N	E16609N	E16135N	Exit sign pane	
E16606N	E16610N	E16136N	Exit sign pane	
E16607	E16611	E16324	Opal pane	
E16242	E16241	E16251	Pane in body colour	
F95057	F95057	F95057	Adaptor for ceiling mounting	
F95600	F95600	F95600	Suspension profile 250 mm	
F95601	F95601	F95601	Suspension profile 500 mm	
F95602	F95602	F95602	Suspension profile 1000 mm	
F95055	F95056	F95070	Wall bracket	
F95400	F95400	F95400	Pendant rod 500 mm	
F95401	F95401	F95401	Wire suspension max. 1200 mm	
	F95032		Wire guard (Wall mounting)	

Order Code	Lamp		EVG	SLEB	AUTO	NEA
Single sided exit sign						
TM92630_*	T5 6 W	Ballast lumen factor:	100%	75%	75%	100%
TM92652_*	LED 3 x 1W	Ballast lumen factor:	100%	100%	100%	100%
TM92631_*	T5 8 W	Ballast lumen factor:	100%	75%	75%	100%
TM92651_*	LED 5 x 1W	Ballast lumen factor:	100%	100%	100%	100%
TM92616_*	T5 13 W	Ballast lumen factor:	100%	75%	75%	100%
Double sided exit sign						
TM92624_*	T5 6 W	Ballast lumen factor:	100%	75%	75%	100%
TM92656_*	LED 3 x 1W	Ballast lumen factor:	100%	100%	100%	100%
TM92625_*	T5 8 W	Ballast lumen factor:	100%	75%	75%	100%
TM92655_*	LED 5 x 1W	Ballast lumen factor:	100%	100%	100%	100%
TM92615_*	T5 13 W	Ballast lumen factor:	100%	75%	75%	100%

* Order code with **suffix E**: e. g. TnnnnE = Luminaire with HF ballast without monitoring modules
Order code with **suffix S**: e. g. TnnnnS = Luminaire with HF ballast with monitoring module, manual coding
Order code with **suffix A**: e. g. TnnnnA = Luminaire with HF ballast with monitoring module, automatic coding
Order code with **suffix N**: e. g. TnnnnN = Luminaire with HF ballast suitable for LOGICA-NEA emergency lighting systems

Tula

Description: Exit sign luminaire in functional style, consisting of curved diffusers and flat end caps. Choice of single side or double side exit sign panes.
Special features: Functional look, sleek design, wide beam light distribution.

Technical details see pages 110 - 117

Technical data

Mounting:
Wall or ceiling mounting

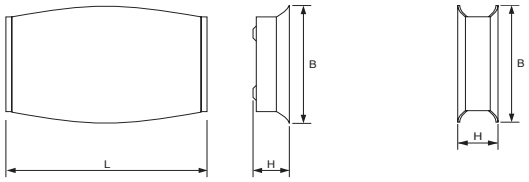
Body:
Sheet steel, white RAL 9006

Diffuser:
Opal polycarbonate

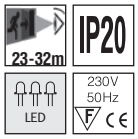
Mains supply:
198 V - 254 V / 50 Hz

Battery supply:
176 V - 254 V

Ambient temperature:
-10 to +40 °C



W	• Dimensions (mm) •			Version
	L	B	H	
3	266	154	54	single sided
3	266	154	62	double sided
4	360	215	64	single sided
4	360	215	68	double sided



LOGICA AUTO SOLUTION
LOGICA SLEB SOLUTION
LOGICA NEA SOLUTION

Fitting supplied complete with			
Order Code 3W	4W	Description	Article
F15337NU	F15338NU	Exit signs (Set with 3 films)	
F15337NR	F15338NR	Exit signs (Set with 3 films)	
F15337NL	F15338NL	Exit signs (Set with 3 films)	
E16625	E16626	Opal pane	

Accessories, to be ordered separately	
Order Code 3/4W	Description
F95109P	Wall bracket
F95109PK	Adaptor for ceiling mounting
F95109PR	Pendant rod 500 mm
F95109PS	Wire suspension max. 1200 mm

Order Code	Lamp		EVG	SLEB	AUTO	NEA
Single sided exit sign						
T92800_*	LED 3 x 1W	**Ballast lumen factor:**	100%	100%	100%	100%
T92802_*	LED 4 x 1W	**Ballast lumen factor:**	100%	100%	100%	100%
Double sided exit sign						
T92801_*	LED 3 x 1W	**Ballast lumen factor:**	100%	100%	100%	100%
T92803_*	LED 4 x 1W	**Ballast lumen factor:**	100%	100%	100%	100%

* Order code with **suffix E**: e. g. TnnnnE = Luminaire with HF ballast without monitoring modules
Order code with **suffix S**: e. g. TnnnnS = Luminaire with HF ballast with monitoring module, manual coding
Order code with **suffix A**: e. g. TnnnnA = Luminaire with HF ballast with monitoring module, automatic coding
Order code with **suffix N**: e. g. TnnnnN = Luminaire with HF ballast suitable for LOGICA-NEA emergency lighting systems

Dispos

Description: Exit sign luminaire in functional design, surface mounted version consisting of segmented sections. Choice of single sided (wall mounting) or double sided (recessed ceiling, ceiling, pendant suspended and bracket mounting) exit sign.
Luminaires supplied without exit sign panes and accessories.
Special features: Functional look, display technology, two different visibility ranges, available with T5 fluorescent tubes or LED light sources.

Technical details see pages 110 - 117

Technical data

Mounting:
Recessed, ceiling, pendant or bracket installation

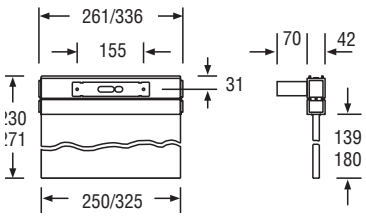
Body:
Aluminium white (RAL 9003)

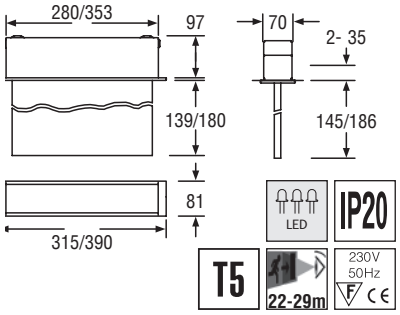
Cover for recessed version:
Sheet steel white (RAL 9003)

Mains supply:
198 V - 254 V / 50 Hz

Battery supply:
176 V - 254 V

Ambient temperature:
-10 to +40 °C





Accessories, to be ordered separately

Order Code 6W	Order Code 8W	Description	Article
E16260N	**E16128N**	Exit sign pane	
E16261N	**E16129N**	Exit sign pane	
E16262N	**E16130N**	Exit sign pane	
F95209	**F95209**	Adaptor for pendant suspended mounting	
F95600	**F95600**	Suspension profile 250 mm	
F95601	**F95601**	Suspension profile 500 mm	
F95602	**F95602**	Suspension profile 1000 mm	
F95211	**F95211**	Wall bracket	
F95404	**F95404**	Pendant rod 500 mm	
F95405	**F95405**	Wire suspension max.1200 mm	
F95220	**F95221**	Concrete ceiling box	

Order Code	Lamp		EVG	SLEB	AUTO	NEA
Version for recessed ceiling mounting and double sided exit route sign						
TM92101_*	T5 6 W	**Ballast lumen factor:**	100%	75%	75%	100%
TM92180_*	LED 3 x 1W	**Ballast lumen factor:**	100%	100%	100%	100%
TM92100_*	T5 8 W	**Ballast lumen factor:**	100%	75%	75%	100%
TM92181_*	LED 5 x 1W	**Ballast lumen factor:**	100%	100%	100%	100%
Version for wall mounting and single sided exit route sign						
T92108_*	T5 6 W	**Ballast lumen factor:**	100%	75%	75%	100%
T92188_*	LED 3 x 1W	**Ballast lumen factor:**	100%	100%	100%	100%
T92110_*	T5 8 W	**Ballast lumen factor:**	100%	75%	75%	100%
T92190_*	LED 5 x 1W	**Ballast lumen factor:**	100%	100%	100%	100%
Version for ceiling mounting and double sided exit route sign						
T92120_*	T5 6 W	**Ballast lumen factor:**	100%	75%	75%	100%
T92200_*	LED 3 x 1W	**Ballast lumen factor:**	100%	100%	100%	100%
T92121_*	T5 8 W	**Ballast lumen factor:**	100%	75%	75%	100%
T92201_*	LED 5 x 1W	**Ballast lumen factor:**	100%	100%	100%	100%
Version for pendant suspended mounting and double sided exit route sign						
T92109_*	T5 6 W	**Ballast lumen factor:**	100%	75%	75%	100%
T92189_*	LED 3 x 1W	**Ballast lumen factor:**	100%	100%	100%	100%
T92111_*	T5 8 W	**Ballast lumen factor:**	100%	75%	75%	100%
T92191_*	LED 5 x 1W	**Ballast lumen factor:**	100%	100%	100%	100%

* Order code with **suffix E**: e. g. TnnnnE = Luminaire with HF ballast without monitoring modules
Order code with **suffix S**: e. g. TnnnnS = Luminaire with HF ballast with monitoring module, manual coding
Order code with **suffix A**: e. g. TnnnnA = Luminaire with HF ballast with monitoring module, automatic coding
Order code with **suffix N**: e. g. TnnnnN = Luminaire with HF ballast suitable for LOGICA-NEA emergency lighting systems

Plana

Description: Exit sign luminaire in functional design consisting of an acrylic pane with integrated LED batten. Choice of single sided (wall mounting) or double sided (recessed ceiling, pendant suspended and bracket mounting) exit sign.
Luminaires supplied with accessories but without exit sign panes.
Special features: Functional look, LED display technology.

Technical details see pages 110 - 117

Technical data

Mounting:
Recessed, pendant or bracket installation

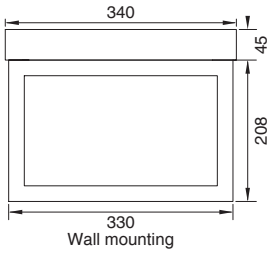
Body:
Clear methacrylate

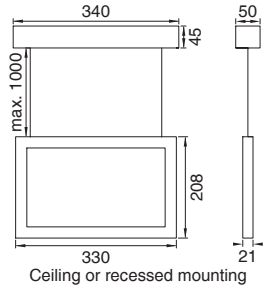
Wall bracket:
Sheet metal white (RAL 9006)

Mains supply:
198 V - 254 V / 50 Hz

Battery supply:
176 V - 254 V

Ambient temperature:
-10 to +40 °C





Accessories, to be ordered separately		
Order Code	**Description**	**Article**
LED		
E16624TRL	Exit sign pane double sided	
E16624TU	Exit sign pane double sided	
E16624WL	Exit sign pane single sided	
E16624WR	Exit sign pane single sided	
E16624WU	Exit sign pane single sided	

Order Code	Lamp		EVG	SLEB	AUTO	NEA
Version for wall mounting and single sided exit route sign						
TM92182_*	LED batten 3,6W	**Ballast lumen factor:**	100%	100%	100%	100%
Version for wall bracket mounting and double sided exit route sign						
TM92183_*	LED batten 3,6W	**Ballast lumen factor:**	100%	100%	100%	100%
Version for wire suspended mounting and double sided exit route sign						
TM92184_*	LED batten 3,6W	**Ballast lumen factor:**	100%	100%	100%	100%
Version for recessed ceiling mounting and wire suspension and double sided exit route sign						
TM92185_*	LED batten 3,6W	**Ballast lumen factor:**	100%	100%	100%	100%

* Order code with **suffix E**: e. g. TnnnnE = Luminaire with HF ballast without monitoring modules
Order code with **suffix S**: e. g. TnnnnS = Luminaire with HF ballast with monitoring module, manual coding
Order code with **suffix A**: e. g. TnnnnA = Luminaire with HF ballast with monitoring module, automatic coding
Order code with **suffix N**: e. g. TnnnnN = Luminaire with HF ballast suitable for LOGICA-NEA emergency lighting systems

Maxima

Description: Exit sign luminaire in functional design with body and panes in oval form. Choice of single sided (wall mounting) or double sided (ceiling, pendant suspended and bracket mounting) exit sign. Luminaires are supplied with 4 exit sign films, adaptor for ceiling mounting and bracket for wall mounting.
Special features: Attractive aesthetics, sleek body, long distance visibility, easy installation with quick-adaptor.

Technical details see pages 110 - 117

Technical data

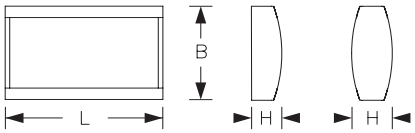
Mounting:
Wall, ceiling, pendant rod and wall bracket mounting

Body:
White polycarbonate

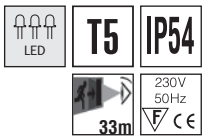
Mains supply:
198 V - 254 V / 50 Hz

Battery supply:
176 V - 254 V

Ambient temperature:
-10 to +40 °C



W	• Dimensions (mm) •			Version
	L	B	H	
8	390	227	79,3	single sided
8	390	227	90	double sided



LOGICA AUTO SOLUTION
LOGICA SLEB SOLUTION
LOGICA NEA SOLUTION

Fitting supplied complete with		
Order Code 8W	**Description**	**Article**
FB16910	Exit signs (Set with all 4 films)	
F95505	Adaptor for ceiling mounting	
F95506	Wall bracket	

Accessories, to be ordered separately	
Order Code 8W	**Description**
FB3723	Adaptor for suspended mounting
F95510	Suspension kit 500mm
F95511	Suspension kit 1000mm
F95512	Suspension kit 1500mm

Order Code	Lamp		EVG	SLEB	AUTO	NEA
Version for wall mounting and single sided exit route sign						
T92360_*	T5 8W	**Ballast lumen factor:**	100%	75%	75%	100%
T92360_LED*	LED 2 x 1W	**Ballast lumen factor:**	100%	75%	75%	100%
Version for ceiling, pendant rod and wall bracket mounting and double sided exit route sign						
T92362_*	T5 8W	**Ballast lumen factor:**	100%	75%	75%	100%
T92362_LED*	LED 2 x 1W	**Ballast lumen factor:**	100%	75%	75%	100%

* Order code with **suffix E**: e. g. Tnnnn**E** = Luminaire with HF ballast without monitoring modules
Order code with **suffix S**: e. g. Tnnnn**S** = Luminaire with HF ballast with monitoring module, manual coding
Order code with **suffix A**: e. g. Tnnnn**A** = Luminaire with HF ballast with monitoring module, automatic coding
Order code with **suffix N**: e. g. Tnnnn**N** = Luminaire with HF ballast suitable for LOGICA-NEA emergency lighting systems

Tuttovetro Bandiera

Description: Exit sign luminaire in industrial style, consisting of a flat body and a tapered opal cover. Double sided exit route sign (ceiling, wire suspended and bracket mounting). Luminaire supplied with three exit sign films, adapter for wire suspended mounting and bracket. Additional IP 65 auxiliary box for increased protection.
Special features: Industrial look, improved degree of protection to IP65 by auxiliary box. Quick fix adapter for IP40 version.

Technical details see pages 110 - 117

Technical data

Mounting:
Ceiling, pendant or bracket mounting

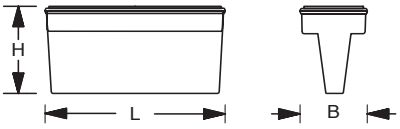
Body:
ABS plastic

Diffuser:
ABS plastic

Mains supply:
198 V - 254 V / 50 Hz

Battery supply:
176 V - 254 V

Ambient temperature:
-10 to +40 °C



W	• Dimensions (mm) •			Lamp
	L	B	H	
8	380	142	194	T5

• Dimensions (mm) IP65 •		
L	B	H
396	156	233

T5 · IP40 IP65 · 24 m · 230V 50Hz

Fitting supplied complete with		
Order Code 8W	**Description**	**Article**
FB16902	Exit signs (Set with all 3 films)	
FB3722	Wall bracket	
FB3723	Adaptor for suspended mounting	

Accessories, to be ordered separately		
Order Code 8W	**Description**	**Article**
FB2734	IP 65 auxiliary box	

Order Code	Lamp		EVG	SLEB	AUTO	NEA
TB16006	T5 8 W	**Ballast lumen factor:**	100%			
TB16007	T5 8 W	**Ballast lumen factor:**		75%		
TB16009	T5 8 W	**Ballast lumen factor:**			75%	
TB16010	T5 8 W	**Ballast lumen factor:**				100%

Indus

Description: Exit sign luminaire in industrial design with flat body and opal diffuser. Light distribution by white reflector. Single sided exit route sign (wall mounting) or double sided (ceiling mounting).
Special features: Industrial design, robust and shockproof.

Technical details see pages 110 - 117

Technical data

Mounting:
Wall, ceiling, wire or chain suspension or bracket mounting

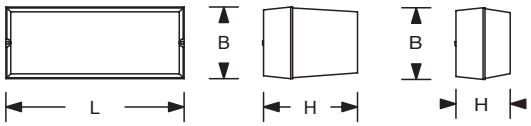
Body:
White polycarbonate

Reflector:
White polycarbonate

Mains supply:
198V – 254V / 50Hz

Battery supply:
176 V - 254 V

Ambient temperature:
-10 to +40 °C



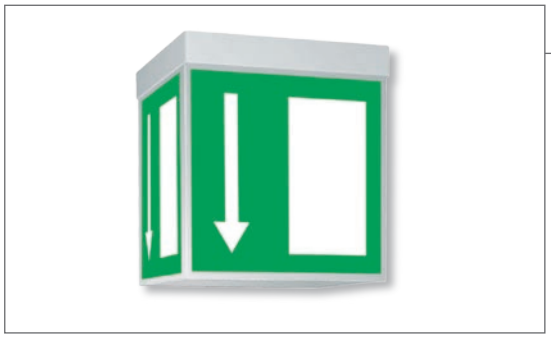
W	• Dimensions (mm) •			Version
	L	B	H	
8	368	148	112	single sided
8	368	148	194	double sided

T5 IP54 26m 230V 50Hz

Accessories, to be ordered separately		
Order Code	**Description**	**Article**
8W		
F15314N	Exit sign film	
F15313N	Exit sign film	
F15312N	Exit sign film	
F95029	Wall bracket	
FB3723	Adaptor for suspended mounting	
F95032	Wire guard	

Order Code	Lamp		EVG	SLEB	AUTO	NEA
Single sided exit sign						
T92032_*	T5 8 W	**Ballast lumen factor:**	100%	75%	75%	100%
Double sided exit sign						
T92058_*	T5 8 W	**Ballast lumen factor:**	100%	75%	75%	100%

* Order code with **suffix E**: e. g. TnnnnE = Luminaire with HF ballast without monitoring modules
Order code with **suffix S**: e. g. TnnnnS = Luminaire with HF ballast with monitoring module, manual coding
Order code with **suffix A**: e. g. TnnnnA = Luminaire with HF ballast with monitoring module, automatic coding
Order code with **suffix N**: e. g. TnnnnN = Luminaire with HF ballast suitable for LOGICA-NEA emergency lighting systems



Quader

Description: Exit sign luminaire consisting of a square base and a cubic shaped transparent diffuser. Three sided exit route sign (ceiling or suspended mounting). Long range visibility due to large diffuser.
Special features: Three sided exit route sign for large sized areas like supermarkets.

Technical details see pages 110 - 117

Technical data

Mounting:
Ceiling or pendant mounting, wire or chain suspension

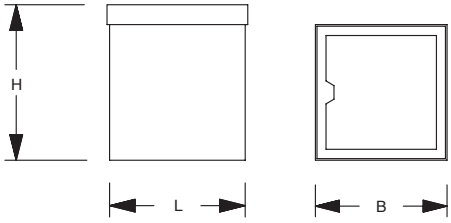
Body:
Polypropylene

Diffuser:
PMMA

Mains supply:
198 V - 254 V / 50 Hz

Battery supply:
176 V - 254 V

Ambient temperature:
-10 to +40 °C



W	• Dimensions (mm) •		
	L	B	H
9	239	248	274

CFL 4pin/2lb · IP42 · 44m · 230V 50Hz

LOGICA AUTO SOLUTION
LOGICA SLEB SOLUTION
LOGICA NEA SOLUTION

Accessories, to be ordered separately		
Order Code 9W	**Description**	**Article**
F15330	Exit sign film	
F15331	Exit sign film	
F15332	Exit sign film	
F95600	Suspension profile 250 mm	
F95601	Suspension profile 500 mm	
F95602	Suspension profile 1000 mm	
F95400	Pendant rod 1000 mm	
F95401	Wire suspension	
F95210	Adaptor for pendant rod mounting	
F95406	Adaptor for wire and chain suspension	

Order Code	Lamp		EVG	SLEB	AUTO	NEA
T92480_*	CFL 4pin/2lb 9 W	**Ballast lumen factor:**	100%	75%	75%	100%

* Order code with **suffix E**: e. g. TnnnnE = Luminaire with HF ballast without monitoring modules
Order code with **suffix S**: e. g. TnnnnS = Luminaire with HF ballast with monitoring module, manual coding
Order code with **suffix A**: e. g. TnnnnA = Luminaire with HF ballast with monitoring module, automatic coding
Order code with **suffix N**: e. g. TnnnnN = Luminaire with HF ballast suitable for LOGICA-NEA emergency lighting systems

Convex

Description: Exit sign luminaire in elegant style with convex body and concave taper. Vertical joints at both ends. Choice of single sided (wall mounting) or double sided (ceiling, suspended or wall bracket mounting) exit sign. Luminaire is supplied without accessories and exit sign panes.
Special features: Architectural look, sleek design, minimal dimensions.

Technical details see pages 110 - 117

Technical data

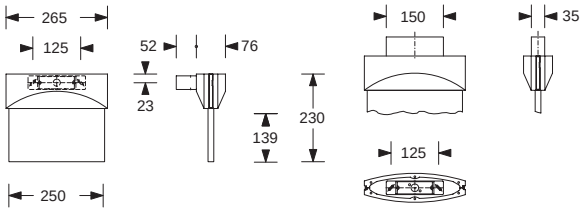
Mounting:
Wall, ceiling, suspended or wall bracket mounting

Body:
Die-cast aluminium, anthracite RAL 9007

Mains supply:
198 V - 254 V / 50 Hz

Battery supply:
176 V - 254 V

Ambient temperature:
-10 to +40 °C



IP40

26m

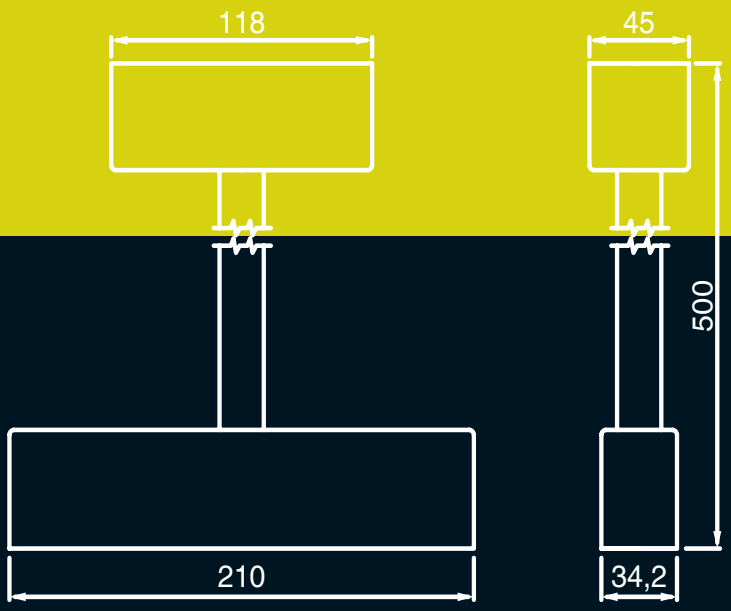
230V
50Hz

LOGICA AUTO SOLUTION
LOGICA SLEB SOLUTION
LOGICA NEA SOLUTION

Accessories, to be ordered separately		
Order Code 6W	**Description**	**Article**
E16260N	Exit sign pane	
E16261N	Exit sign pane	
E16262N	Exit sign pane	
F95106	Pendant rod 250mm	
F95107	Pendant rod 500mm	
F95108	Pendant rod 1000mm	
F95014	Wall bracket	

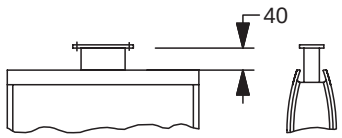
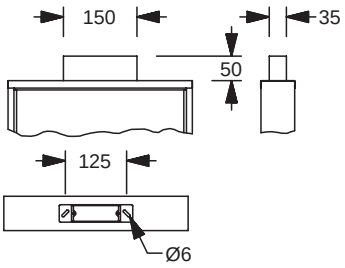
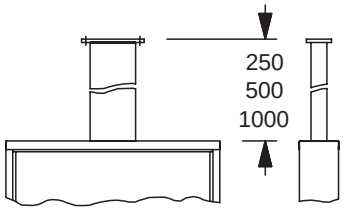
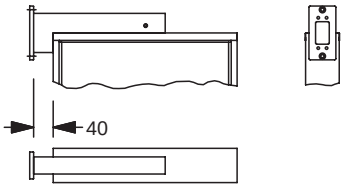
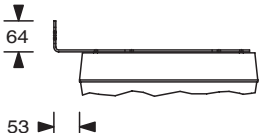
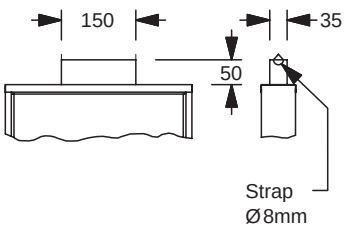
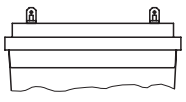
Order Code	Lamp		EVG	SLEB	AUTO	NEA
Version for wall mounting and single sided exit sign						
T92708_*	T5 6 W	**Ballast lumen factor:**	100%	75%	75%	100%
Version for ceiling mounting and double sided exit sign						
T92709_*	T5 6 W	**Ballast lumen factor:**	100%	75%	75%	100%
Version for suspended or wall bracket mounting						
T92710_*	T5 6 W	**Ballast lumen factor:**	100%	75%	75%	100%

* Order code with **suffix E**: e. g. Tnnnn**E** = Luminaire with HF ballast without monitoring modules
Order code with **suffix S**: e. g. Tnnnn**S** = Luminaire with HF ballast with monitoring module, manual coding
Order code with **suffix A**: e. g. Tnnnn**A** = Luminaire with HF ballast with monitoring module, automatic coding
Order code with **suffix N**: e. g. Tnnnn**N** = Luminaire with HF ballast suitable for LOGICA-NEA emergency lighting systems

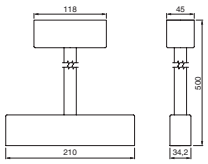
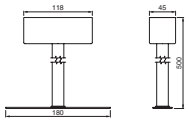
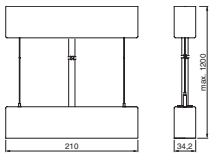
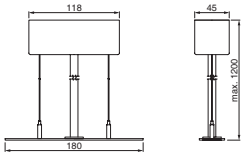


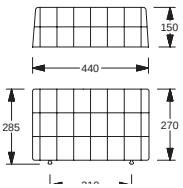
Appendix

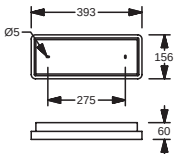
Accessories
Technical data summary
Lighting data
Symbols

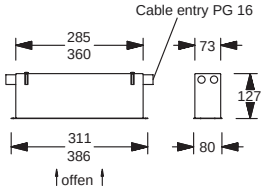
Adaptor for ceiling mounting		Suitable for					
				**ARCUS** **F95104**			
		**KUBUS** **F95057**	**DESIGN** **F95057**				**TULA** **F95109PK**
Suspended installation							
	**Suspension profile** 250 mm 500 mm 1000 mm	**KUBUS** **F95600** **F95601** **F95602**	**DESIGN** **F95100** **F95101** **F95102**	**ARCUS** **F95083** **F95084** **F95085**	**DISPOS** **F95600** **F95601** **F95602**	**QUADER** **F95600** **F95601** **F95602**	
w/o drawing	**Adaptor for pendant rod installation**				**F95209**	**F95210**	
Bracket							
	**Wall bracket** Luminaire 6W Luminaire 8W Luminaire 13W	**KUBUS** **F95055** **F95056** **F95070**	**DESIGN** **F95022** **F95035**	**ARCUS** **F95064**	**DISPOS** **F95211** **F95211**		**TULA** **F95109P**
	**Wall bracket**	**INDUS** **F95029**					
Adaptor for wire or chain suspension							
		**KUBUS** **F95067**	**DESIGN** **F95067**				
		**INDUS** **FB3723**	**QUADER** **F95406**				

NEW! Suspension kits

Suspended installation		Suitable for					
		KUBUS F95400	DESIGN F95400	ARCUS F95402	DISPOS	QUADER F95400	TULA F95109PR
	**Suspension profile** 500 mm						
	**Suspension profile (for DISPOS only)** 500 mm				F95404		
Wire suspension							
	**Wire suspension** max. 1200 mm	F95401	F95401	F95403		F95401	F95109PS
	**Wire suspension (for DISPOS only)** max. 1200 mm				F95405		

Wire guard (wall mounted)	Suitable for	
	**KUBUS** (only 6W and 8W) **DESIGN** **ARCUS** **INDUS** **MAXIMA**	F95032
w/o drawing	**LOGICA** **AESTETICA** **PRATICA TUTTOVETRO** 8W **METRICA LED**	FB12194 FB3908 FB3908 FB3908

IP 65 Cover box	Suitable for	
	**PRATICA TUTTOVETRO** and **TUTTOVETRO BANDIERA**	FB2734

Concrete box (recessed ceiling mounting)	Suitable for	
	**DISPOS** (recessed ceiling mounting) Luminaire 6W Luminaire 8W	 F95220 F95221

	Series	Page	Mounting of Emergency luminaires				Mounting of Exit sign luminaires				
	Exit sign luminaire and Emergency luminaire **AESTETICA**	27/91									
	Exit sign luminaire **ARCUS-V**	35/97									
	Emergency luminaire **ARCUS-V**	20/84									
	Exit sign luminaire **CONVEX**	107									
	Emergency luminaire **CRATER**	24/88									
	Exit sign luminaire **DESIGN**	36/98									
	Emergency luminaire **DESIGN**	21/85									
	Exit sign luminaire **DISPOS**	39/101									
	Exit sign luminaire **INDUS**	45/105									
	Emergency luminaire **INDUS**	28/92									
	Exit sign luminaire and Emergency luminaire **INTOS**	23/87									
	Exit sign luminaire **KUBUS**	37/99									
	Emergency luminaire **KUBUS**	22/86									

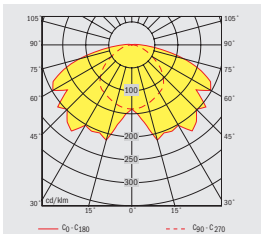
T5	T8	CFL 4pin/2lb	CFL 4pin/4lb	LED	Protec-tion	Electrical class	LOGICA AUTO	LOGICA STEP	LOGICA NEA	
8W					IP 40	II	x	x	x	22 m
8W				3x1W 5x1W	IP 40	I	x	x	x	33 m
8W					IP 40	I	x	x	x	
6W					IP 40	I	x	x	x	33 m
			13W		IP 20	I	x	x	x	
6W 8W				3x1W 5x1W	IP 40	I	x	x	x	23 m 35 m
8W					IP 40	I	x	x	x	
6W 8W				3x1W 5x1W	IP 20	I	x	x	x	22 m 29 m
8W					IP 54	I	x	x	x	26 m
8W					IP 54	I	x	x	x	
8W					IP 20	I	x	x	x	25 m
6W 8W 13W				3x1W 5x1W	IP 40	I	x	x	x	23 m 35 m 60 m
8W					IP 40	I	x	x	x	

	Series	Page	Mounting of Emergency luminaires				Mounting of Exit sign luminaires				
	Emergency luminaire **LEADER**	30/94									
	Exit sign luminaire and Emergency luminaire **LOGICA**	26/90									
	Exit sign luminaire **MAXIMA**	42/103									
	Exit sign luminaire and Emergency luminaire **MetricaLED**	25/89									
	Exit sign luminaire **PLANA**	102									
	Exit sign luminaire and Emergency luminaire **PRATICA TUTTOVETRO**	29/93									
	Emergency luminaire **PYLON**	96									
	Exit sign luminaire **QUADER**	46/106									
	Emergency luminaire **STUFEN**	95									
	Exit sign luminaire **TULA**	100									
	Exit sign luminaire **TUTTOVETRO BANDIERA**	44/104									

T5	T8	CFL 4pin/2lb	CFL 4pin/4lb	LED	Protec-tion	Electrical class	LOGICA AUTO SOLUTIONZ	LOGICA SLEEP SOLUTIONZ	LOGICA NEA SOLUTIONZ	
	18 W 36 W 58 W				IP 66	I	x	x	x	
8 W					IP 65	II	x	x	x	24 m
8 W				2 x 1W	IP 54	I	x	x	x	33 m
				2 x 1W	IP 40 (IP 65)	II	x	x	x	26 m
				3,6 W	IP 40		x	x	x	32 m
8 W					IP 40 IP 65	II	x	x	x	24 m
			10 W 13 W		IP 20	I	x	x	x	
		9 W			IP 42	I	x	x	x	44 m
4 W					IP 54	I	x	x	x	
				3 x 1W 4 x 1W	IP 20		x	x	x	23 m 32 m
8 W					IP 40 IP 65	II	x	x	x	24 m

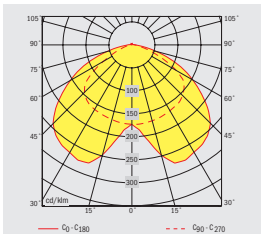
Arcus V

Arcus-V
8 W



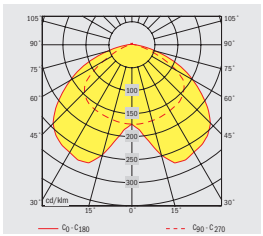
Design

Design
8 W



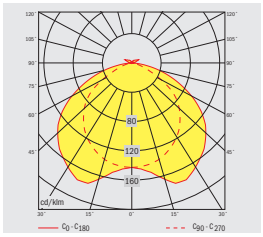
Kubus

Kubus
8 W



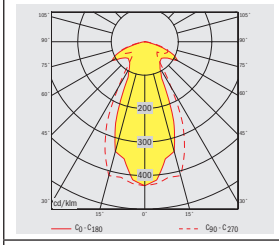
Intos

Intos
8 W

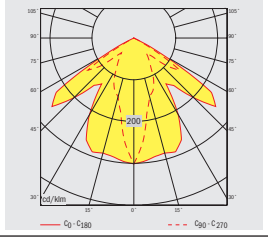


Crater

Crater
13 W Recessed version

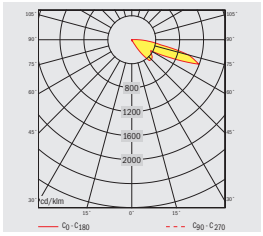


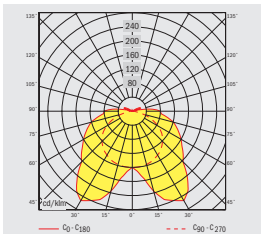
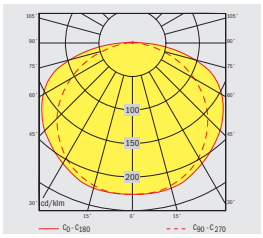
Crater
13 W Surface mounted version



MetricaLED

MetricaLED
8 W



Logica				
Logica W				
				
Aestetica				
Aestetica 8 W				
				
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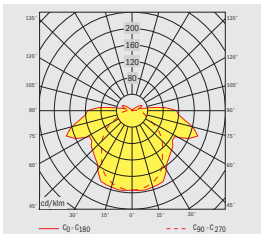
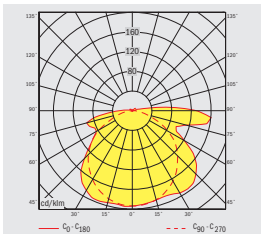
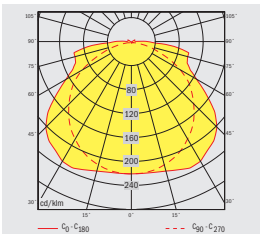
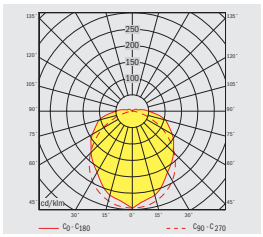
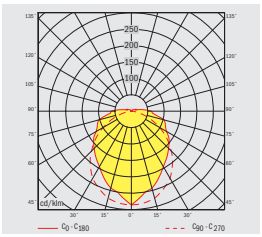
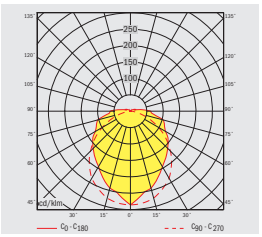
Indus 8 W				
				
Pratica Tuttovetro				
Pratica Tuttovetro 6 W	Pratica Tuttovetro 8 W			
				
Leader				
Leader 18 W	Leader 36 W	Leader 58 W		
				

	Electrical class II
	Protection
	AutoLogica
	SLEBLogica
	Logica NEA-System
	Fluorescent tube, diameter 16 mm
	Fluorescent tube, diameter 26 mm
	Compact fluorescent lamp
	Visibility
	Luminaire to be mounted on normally inflammable surfaces
	Luminaire to be mounted on surfaces with not identified inflammability
	Temperature of glow wire test
	Conformity mark of the European Union
	Resistance against UV-rays

Notes