

INSTRUCTION

TENUO | Deckeneinbauleuchte
recessed ceiling luminaire
Einzelbatteriesystem / Selfcontained

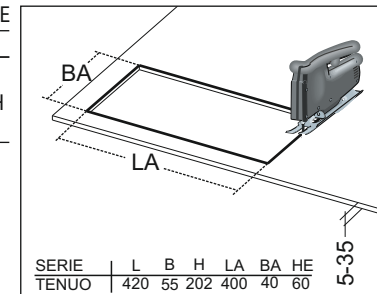
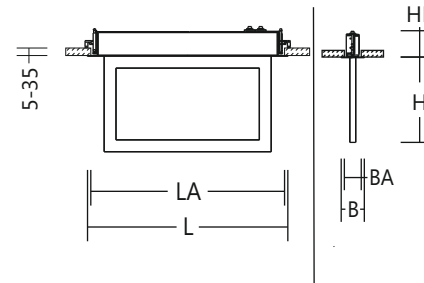


220-240 V / 50-60 Hz

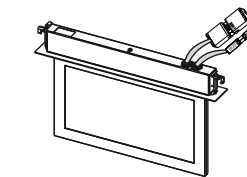
0,5mm² - 2,5mm²

4 x 1,5mm² + 2 x 0,5mm² (2,5mm²)
BUS

Dauerschaltung / maintained
=> +0 °C - +25 °C
Bereitschaftsschaltung / non maintained
=> +5 °C - +40 °C



Einzelbatteriesystem /
Selfcontained

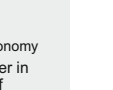
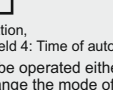
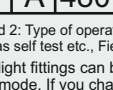
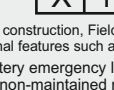
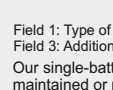
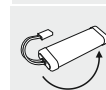
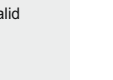
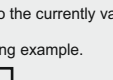
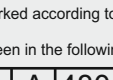
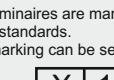
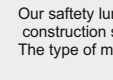


	672008.004.07	L 420, B 55, H 202	LED Modul 5W	6,5W	30m	2,14
	672043.004.07	L 420, B 55, H 202	LED Modul 2,5W	5W	30m	2,24
	67000.0.210	L 145, D 19				
						145 g

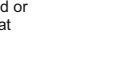
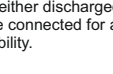
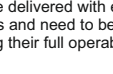
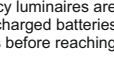
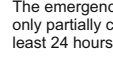
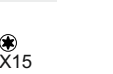
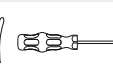
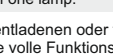
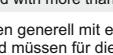
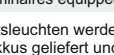
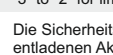
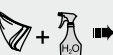
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EN 12464



EN 12464



Unsere Sicherheitsleuchten sind entsprechend den aktuell gültigen
Leuchtenbauvorschriften gekennzeichnet.
Die Form der Kennzeichnung ist wie folgt, als Beispiel dargestellt.

X 1 A 480

Feld 1: Bauart, Feld 2: Betriebsart, Feld 3: Einrichtungen wie Selbsttest u.s.w.
Feld 4: Betriebsdauer

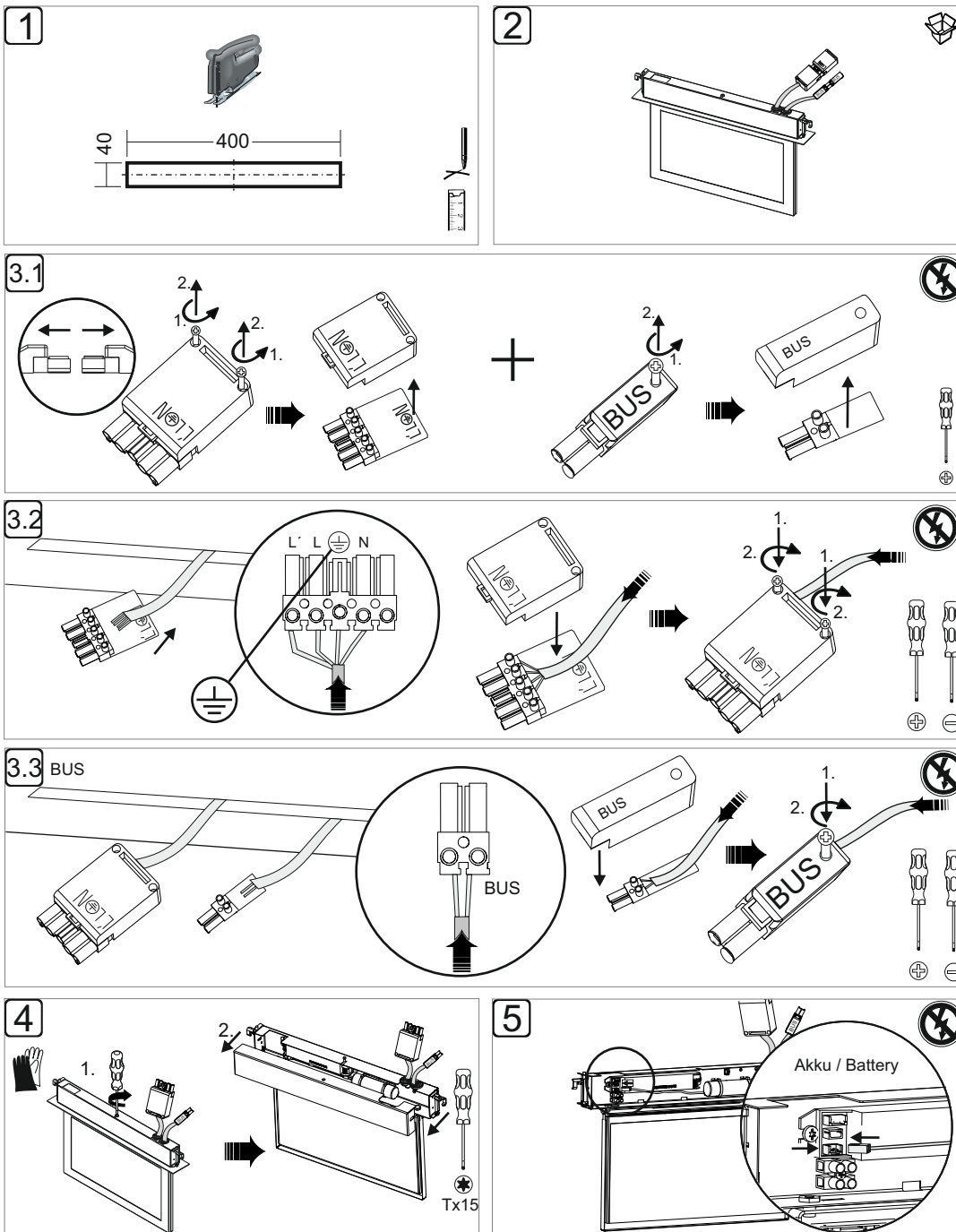
Die von uns gelieferten Einzelbatterieleuchten in Dauerschaltung sind
auch für den Betrieb in Bereitschaftsschaltung geeignet. Wollen Sie
die Leuchten in Bereitschaftsschaltung betreiben, muß der Eintrag in
Feld 2 geändert werden. Bitte kennzeichnen Sie dann 1-lampige
Leuchten mit 0 anstatt der 1 und mehrlampige Leuchten mit 2 anstatt der 3.

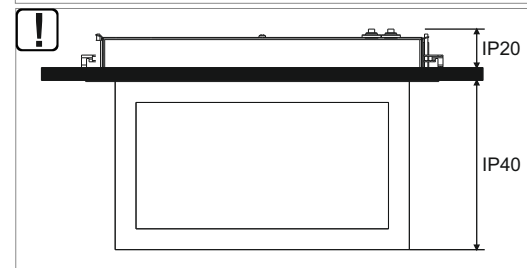
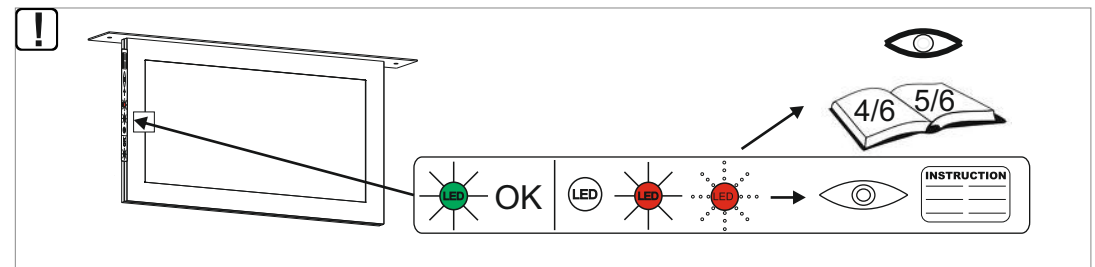
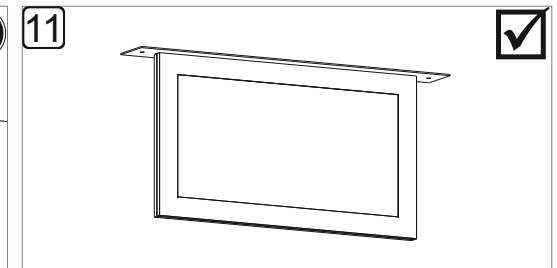
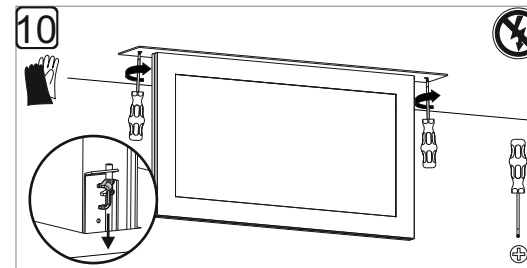
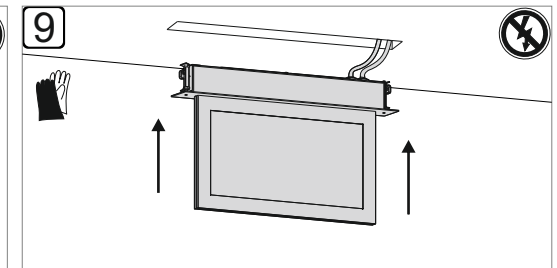
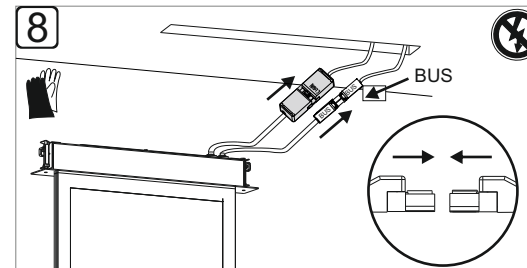
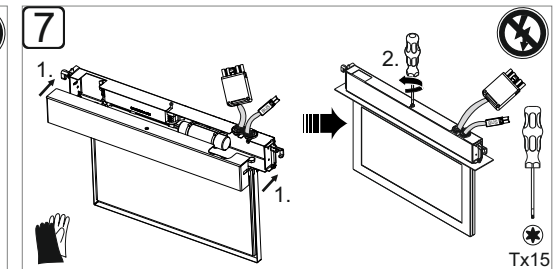
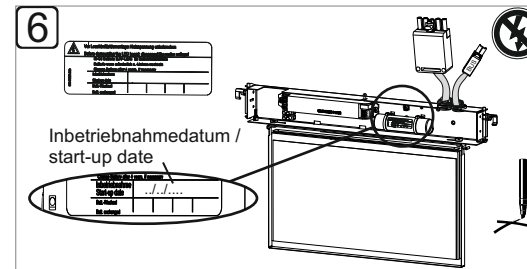
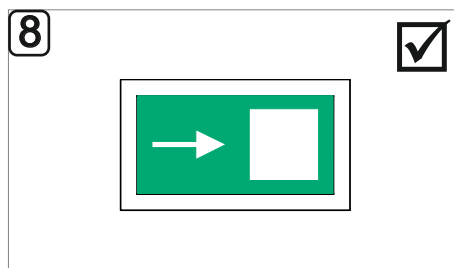
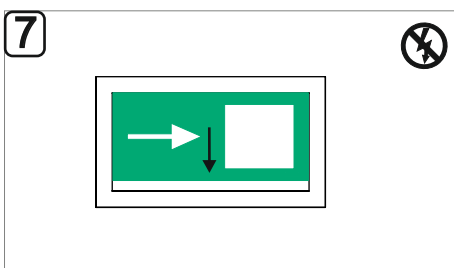
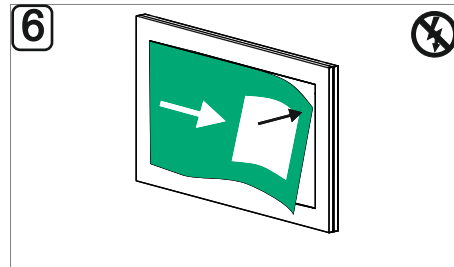
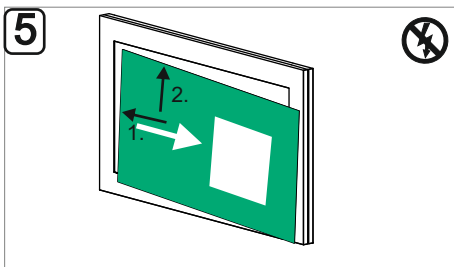
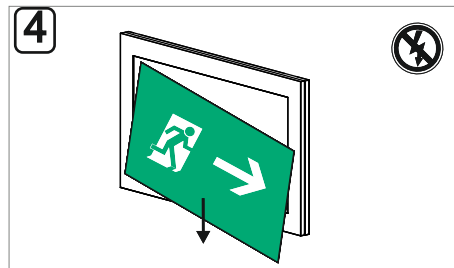
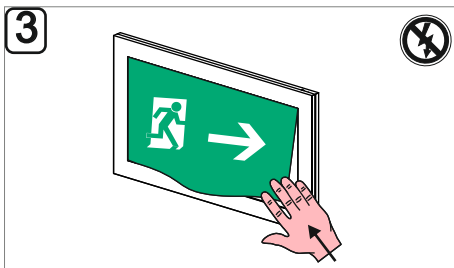
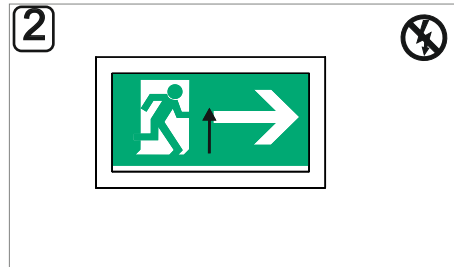
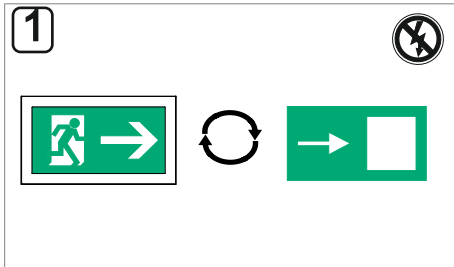
Our safety luminaires are marked according to the currently valid
construction standards.
The type of marking can be seen in the following example.

X 1 A 480

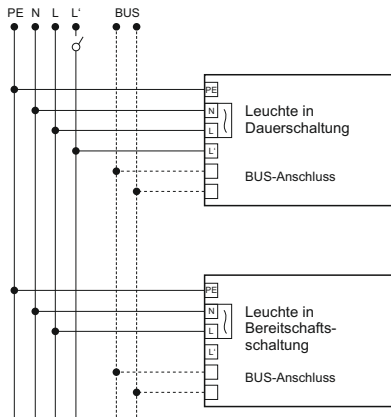
Field 1: Type of construction, Field 2: Type of operation,
Field 3: Additional features such as self test etc., Field 4: Time of autonomy
Our single-battery emergency light fittings can be operated either in
maintained or non-maintained mode. If you change the mode of
operating to non-maintained you will have to change the entry in field 2.
Please change the "1" to "0" for luminaires equipped with 1 lamp and
"3" to "2" for luminaires equipped with more than one lamp.

! Die Sicherheitsleuchten werden generell mit entladenen oder teil-
entladenen Akkus geliefert und müssen für die volle Funktions-
fähigkeit mindestens 24 Stunden am Netz angeschlossen sein.
The emergency luminaires are delivered with either discharged or
only partially charged batteries and need to be connected for at
least 24 hours before reaching their full operability.



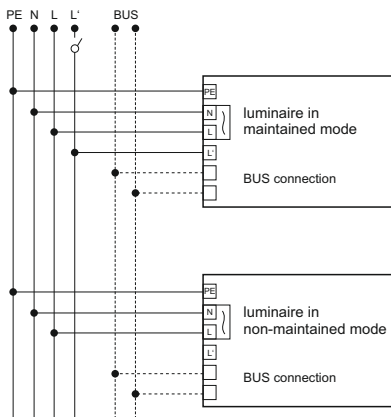


Anschlussplan Einzelbatterie-Sicherheitsleuchten



PE	=	Schutzleiter
N	=	Nullleiter
L	=	Dauerphase (Akkuladung)
L'	=	Geschaltete Phase für Dauerschaltung. Leuchten können mit der Allgemeinbeleuchtung geschaltet werden.
BUS	=	.07 System DALI Kennzeichnung DA Signalstandard < 23 Volt. BUS-Anschlussleitungen dürfen vertauscht werden.

Wiring diagram for self-contained safety luminaires



PE	=	protective earthing conductor
N	=	neutral conductor
L	=	maintained Phase (back-up battery)
L'	=	Connected phase for maintained operation. Luminaires can also be operated with the fittings for the general lighting
BUS	=	.07 System DALI Marking DA Signal standard < 23 Volt. BUS-Connection wires may be exchanged.

Kontrolle nach der Installation

Wenn die LED nicht leuchtet, ist die Ladung durch fehlende Netzspannung, unterbrochene Leitung zum Akku oder defekte Ladeeinheit nicht gewährleistet.

Prüfungen

Einzelbatterieleuchten sind gemäß den Vorschriften am Montageort zu testen. Mängel sind sofort zu beheben. Prüfergebnisse sind im Prüfbuch zu dokumentieren.

Selbsttest

Diese Leuchte ist mit einem automatischen Selbsttestsystem ausgestattet und überprüft die Leuchte eigenständig. Bei den Leuchten wird wöchentlich die Einsatzbereitschaft der Elektronik, der Lampe und des Akkus geprüft. Zusätzlich wird jährlich die Kapazität des Akkus durch Simulation eines Netzausfalls gemessen. Der erste Test erfolgt 24 Stunden nach der Installation oder einer Fehlerbehebung. Danach wird der Akku erneut für 24 Stunden geladen. Während der Zeit blinkt die Ladeanzeige (LED) grün. Nach Ablauf der Zeit muss die Ladeanzeige (LED) kontrolliert werden. Die Anzeige an der Leuchte erfolgt, wie nachstehend beschrieben.

	aus: LED leuchtet nicht		LED aus, leuchtet nicht: Netzspannung fehlt oder die Notlichtelektronik ist defekt.
	grün:		LED grün, 10 Sekunden Impuls: keine Störung
	grün: schnell blinkend	Test	LED grün, schnell blinkend: Funktionstest
	grün: langsam blinkend	Test	LED grün, langsam blinkend: Bemessungsbetriebsdauerstest
	rot: schnell blinkend		LED rot, schnell blinkend: Lampe defekt. Die Alarmrückstellung erfolgt bis zu ca. 1 Minute nach der Fehlerbehebung.
	rot: langsam blinkend		LED rot, langsam blinkend: Der Akku hat eine ungenügende Kapazität oder die Akkuzuleitung ist unterbrochen. Die Alarmrückstellung erfolgt sofort nach der Fehlerbehebung.

Check after installation

If the LED is not lit, it must be ascertained that the charging is not inhibited due to a missing voltage supply, due to a line interruption to the battery or due to a defective charging unit.

Tests

Self-contained safety luminaires are to be tested at their mounting location in compliance with the regulations. Any defects have to be repaired immediately. Test results need to be documented in the test log.

Luminaires with automatic self-test

This luminaire is assembled with an automatic self-test system, testing the luminaire independently. Weekly tested are the electronic system, the emergency-lighting lamp and the battery. Additionally, every year the battery capacity is measured by simulating a mains power failure. The first capacity test is performed 24 hours after installation or fault repair. After this test, the battery is charged for 24 hours again. During this time the load control (LED) is blinking green. The load control (LED) must be checked after this time, shown on the luminaire as described here after:

	off: LED is not lit		LED off, LED is not lit: No mains connection or the emergency electronic gear is damaged.
	green:		LED green, 10 Seconds pulse: No fault
	green: blinking fast flash	Test	LED green, blinking fast flash: Functional test in progress
	green: blinking slow flash	Test	LED green, blinking slow flash: duration test in progress
	red: blinking fast flash		LED red, blinking fast flash: The lamp is damaged. The alarm is reset approximately 1 minute after the fault is repaired.
	red: blinking slow flash		LED red, blinking slow flash: The capacity of the battery is low or the battery connector is interrupted. The alarm is reset immediately after the fault is repaired.