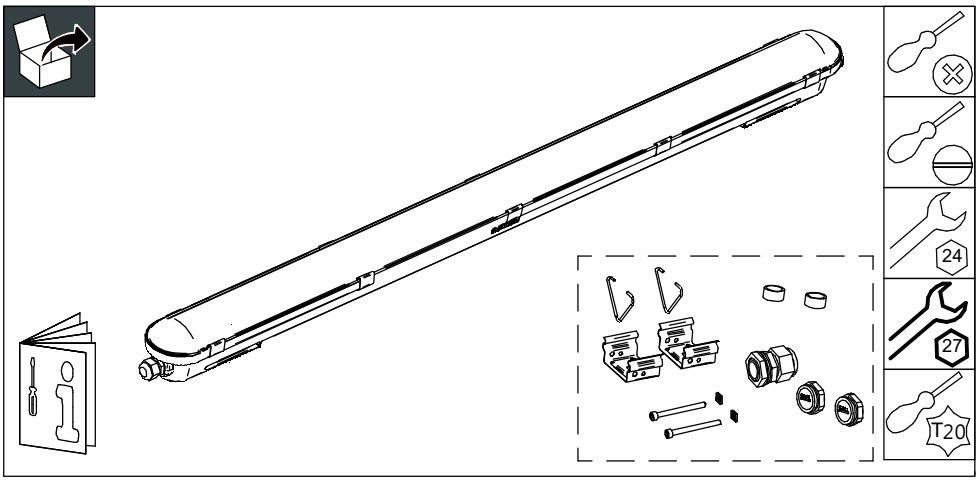
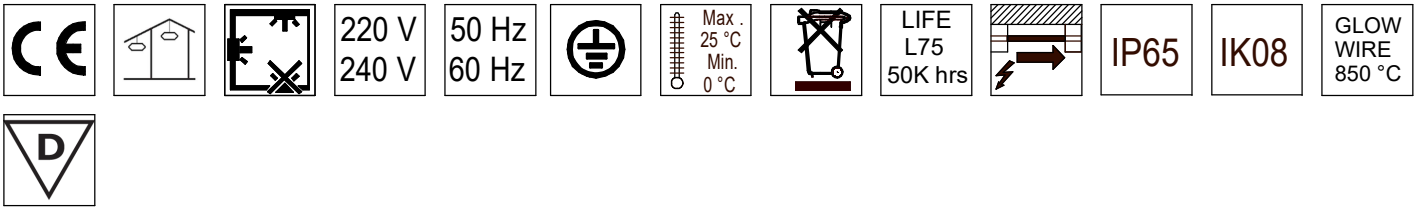
PHILIPS

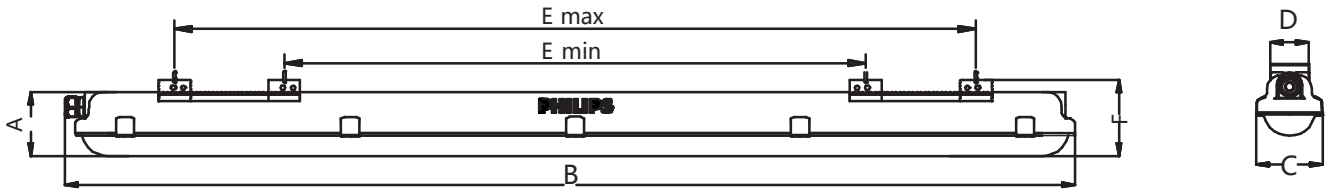
CoreLine
Waterproof

WT120C G2 EL MDU



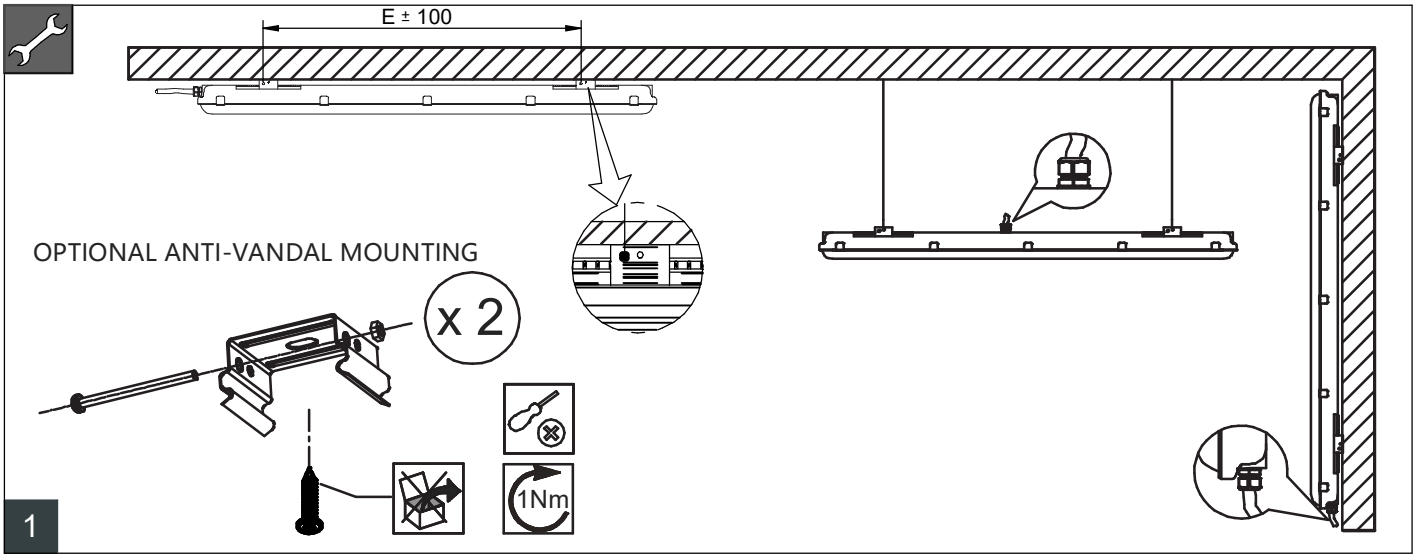


	System light output (Lm)	System light output Emergency mode (Lm)	kg
WT120C G2 LED27S/840 PSU MDU ELB3 L1200	2700	900	1,6
WT120C G2 LED40S/840 PSU MDU ELB3 L1200	4000	900	1,6
WT120C G2 LED34S/840 PSU MDU ELB3 L1500	3400	900	1,9
WT120C G2 LED60S/840 PSU MDU ELB3 L1500	6000	900	1,9

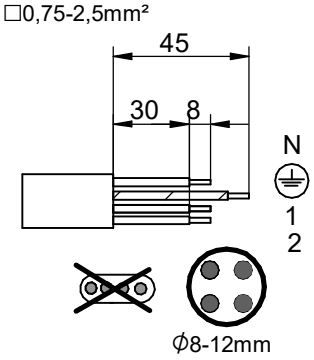


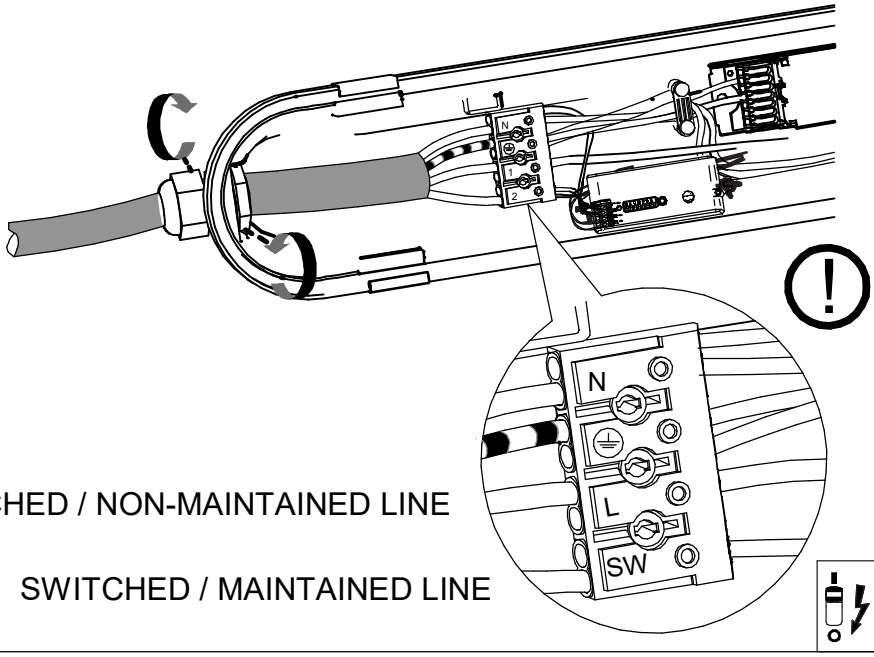
Type	Dimension (mm)							Nr. of clips
	A	B	C	D	E_{min}	E_{max}	F	
WT120C G2 LED27S L1200	76	1215	80	38	538	1062	85	10
WT120C G2 LED40S L1200								
WT120C G2 LED34S L1500		1515			838	1362		12
WT120C G2 LED60S L1500								
WT120C G2 LED80S L1500								

Printed in Hungary
Data subject to change without notice
Keep for future reference: www.philips.com/lighting



PSU versions



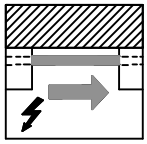


UN-SWITCHED / NON-MAINTAINED LINE

SWITCHED / MAINTAINED LINE

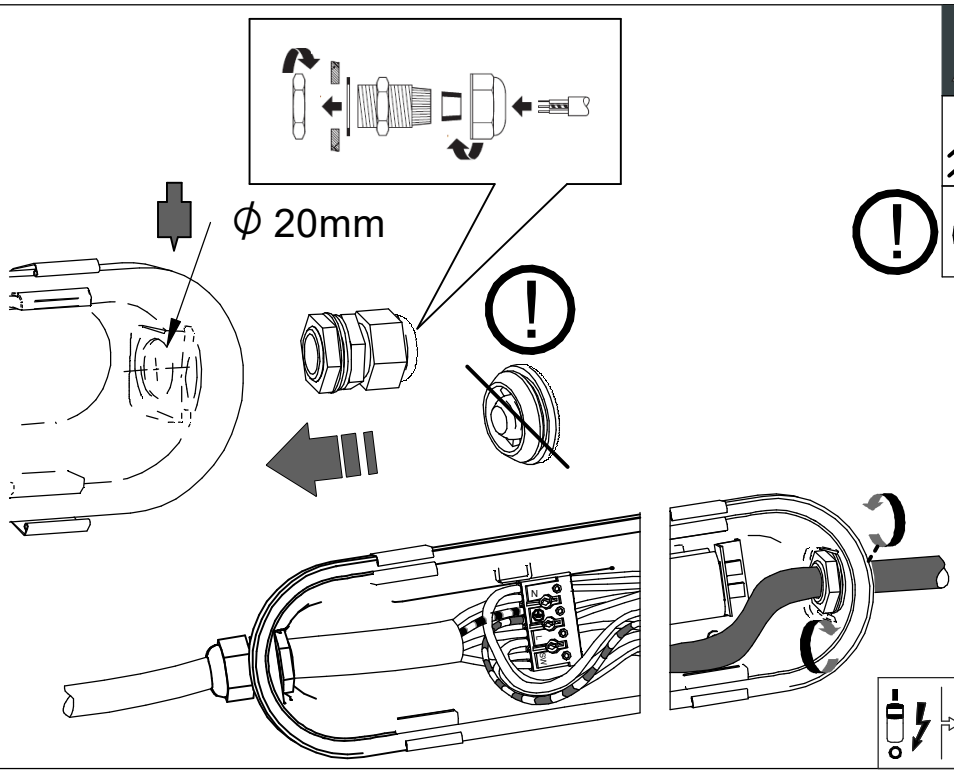
2a

Through wiring



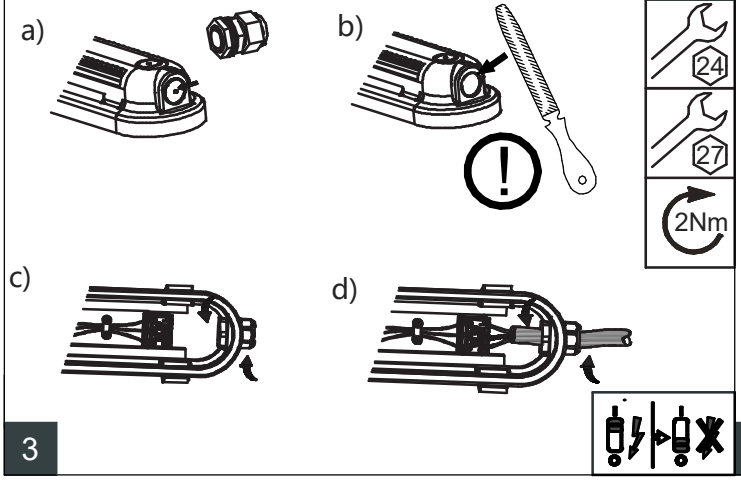
Emergency luminaires are suitable for through wiring.

Connection sceme is same as for standard TW3 versions



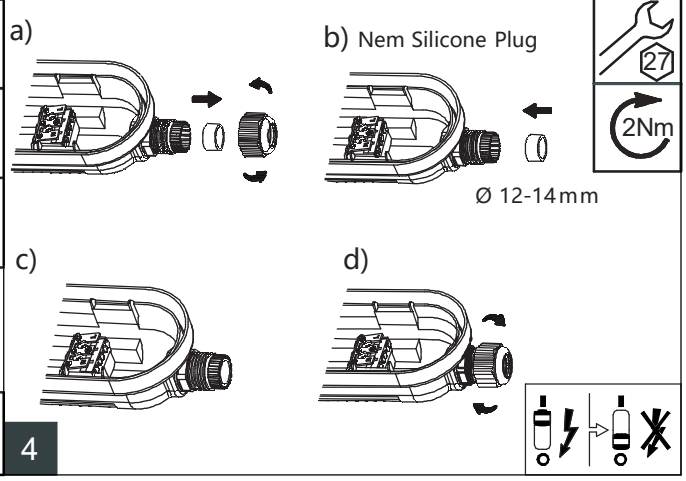
2b

Install cable in other location (optional)

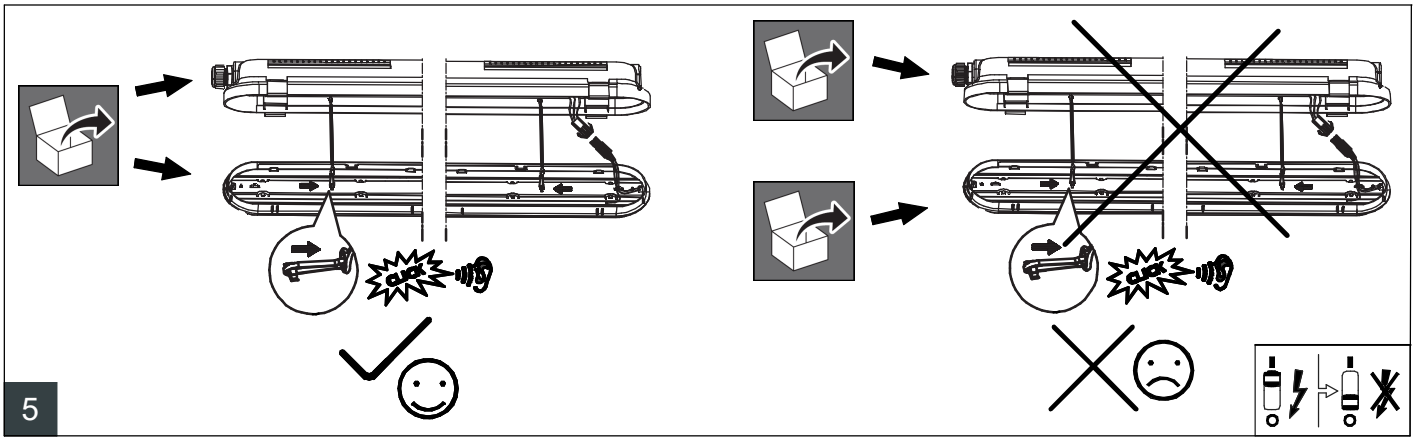


3

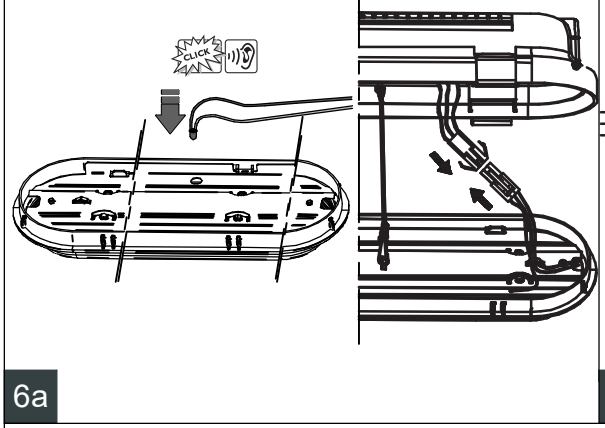
Replacement of Silicon Plug (optional)



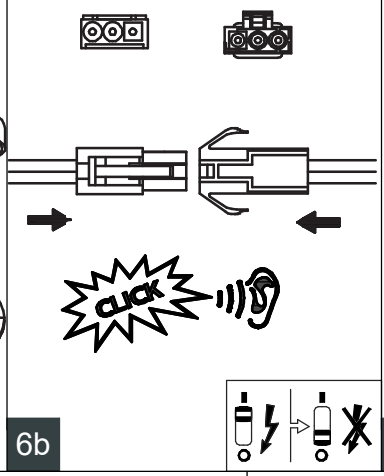
4



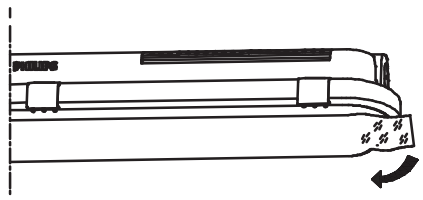
5



6a

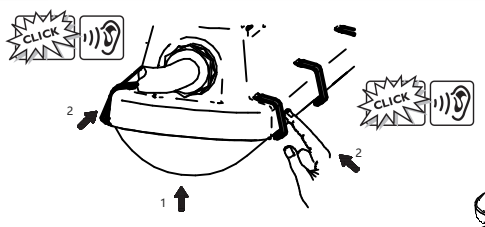


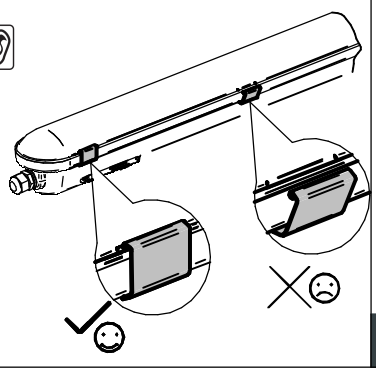
6b



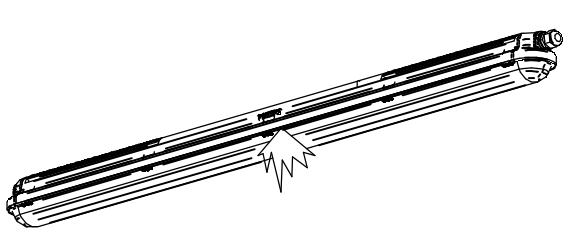
Remove protection foil after installation and before usage!

7





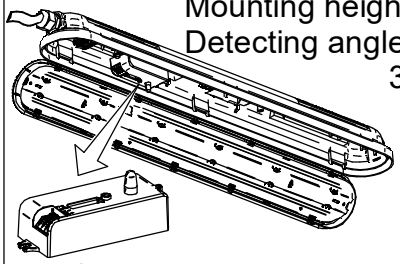
8



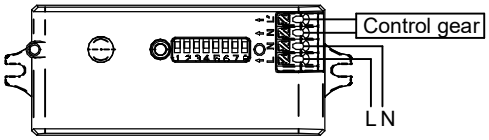
Status LED indication shown on page 6

9

Microwave Motion Sensor



Mounting height: 4m max.
Detecting angle: 150° (wall mounted)
360° (ceiling mounted)

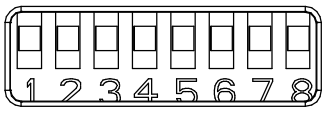


The sensor is designed to connect one load only.
Connecting more than one load may damage the sensor.

DIP Switch settings:

Detection area
(default 100%)
Detection area can be reduced by selecting the combination on the DIP switches to fit precisely each application.
Detection radius: 6-8m (mounting height 3m)

	1	2	
I	ON	ON	100%
II	-	ON	75%
III	ON	-	50%
IV	-	-	25%



Hold time (default 5 min.)
Refers to the time period the lamp remains at 100% illumination after no motion detected.

	3	4	5	
I	ON	ON	ON	5 sec
II	-	ON	ON	30 sec
III	ON	-	ON	90 sec
IV	-	-	ON	5 min
V	ON	ON	-	20 min
VI	-	-	-	30 min

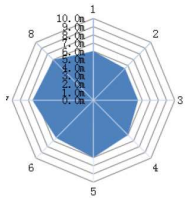
Daylight sensor (default disabled)
The sensor can be set to only allow the luminaire to illuminate below a defined ambient brightness threshold.
When set to Disable mode, the daylight sensor will switch on the luminaire when motion is detected regardless of ambient light level. 40 lux, 30 lux: twilight operation, 10 lux, 2 lux: darkness operation only.

	6	7	8	
I	ON	ON	ON	2 Lux
II	ON	ON	-	10 Lux
III	-	ON	-	30 Lux
IV	ON	-	-	40 Lux
V	-	-	-	Disable

10a

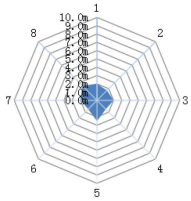
Radiation pattern

Ceiling mounted height: 4m
Sensitivity: 100%/75%/50%/25%



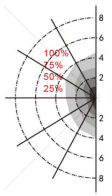
Normal moving (Speed:0,3m/s)

Ceiling mounted height: 4m(*)
Sensitivity:100%

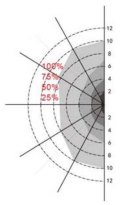


Normal moving (Speed:1m/s)

Horizon mounted height: 2.5m
Sensitivity: 100%/75%/50%/25%



Normal moving (Speed：1m/s)



Slow moving (Speed 0,3m/s)

* Only 100% detection sensitivity is workable when installed at 4m mounting height. 25%/50%/75% sensitivity is not able to detect motion signal.

10b

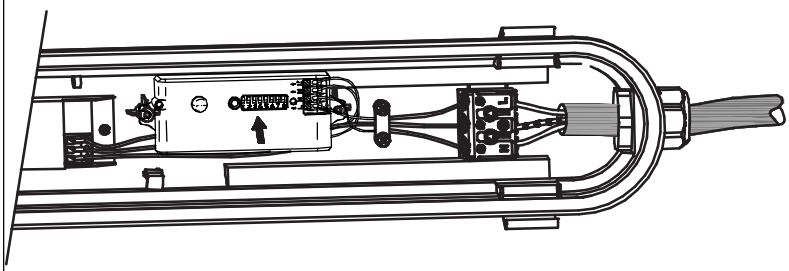
Initialization:

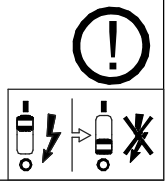
After power on, the sensor automatically turns on light at 100% brightness. After 10sec, it turns off the light. During the initialization, the sensor is not able to detect movement.

Override function:

- quick switch ON/OFF 3 times within 2 sec to override sensor function. Light will switch on regardless of motion. Power off and on again to recover sensor function

10c

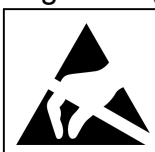


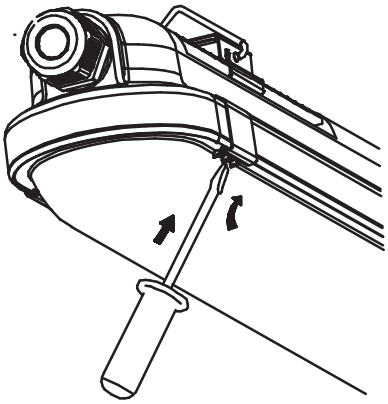


11

SERVICE

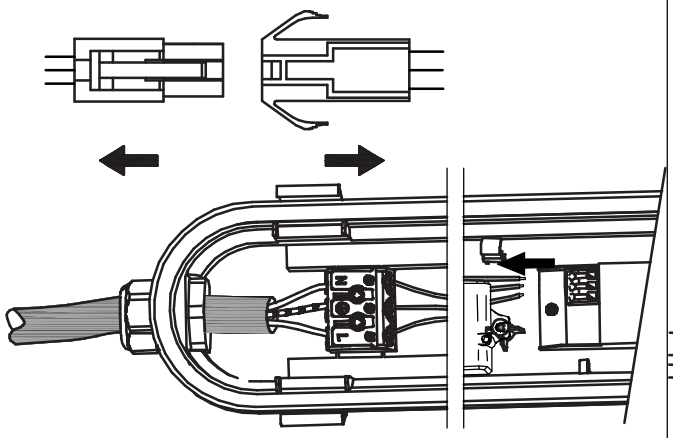
Light source (LED) is non-user replaceable.
The light source contained in this luminaire shall only be replaced by the manufacturer or his agent or a similar qualified person.
Do not touch electronic components!
Electronic components maybe under high voltage.
Caution, risk of electric shock



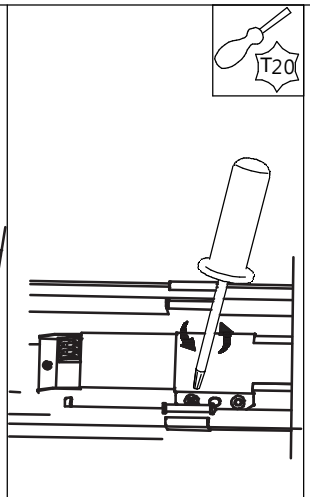


12a

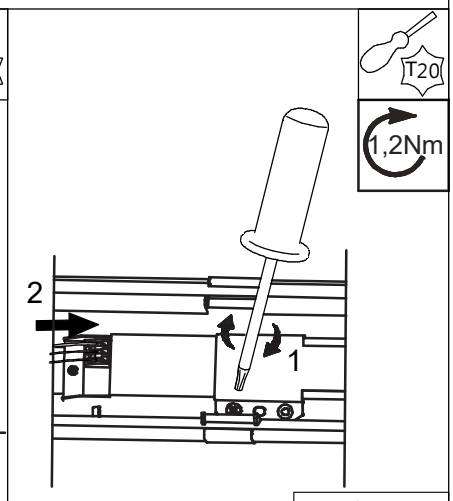
Driver replacement



12b

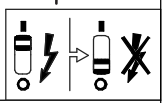


12c

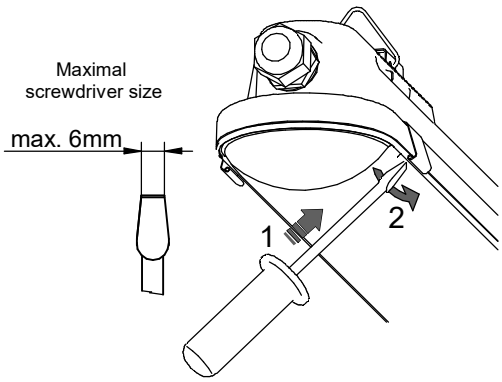


12d

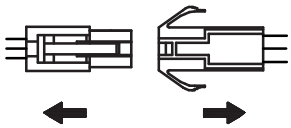
New driver



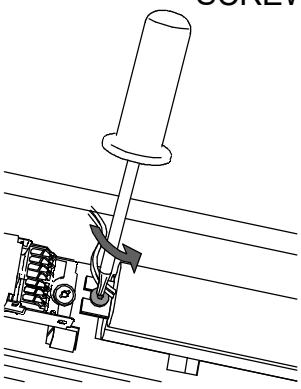
A) OPEN LUMINAIRE

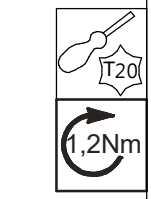


B) DECOUPLE WIRES



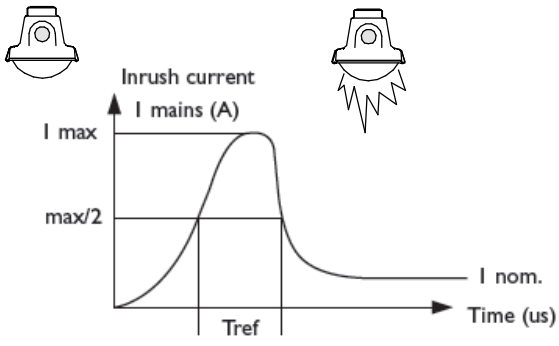
C) UNTIGHT BATTERY SCREWS





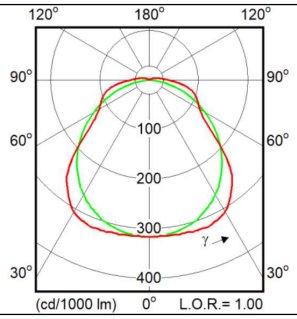
The batteries have a life time expectancy of 4 years.
Do not touch electronic components!
Electronic components may be under high voltage.

12e



	LED27S	LED34S	LED40S	LED60S
Driver type	PSU	PSU	PSU	PSU
Ipeak [A]	3,58	5,16	5,16	5,56
Tref [µs]	40	47	47	47
	Max. Nr of products			
Drivers / MCB 16A type B [max.]	80	60	60	45
Drivers / MCB 10A type B [max.]	50	37	37	28
Drivers / MCB 16A type C [max.]	136	102	102	76
Drivers / MCB 10A type C [max.]	80	62	62	46

Light intensity distribution curves
Emergency mode



* Do not stare into LED light beam.

* The luminaire shall be installed by a qualified electrician and wired in accordance with the latest IEE electrical regulations or the national requirements.

Functional Notice for Emergency Lighting

Automatic emergency time selection

After installation and power up the driver will detect the battery and start the automatic detection process.

• During automatic detection, the indicator LED will light up with short green flashes.

• Between minimum 6 and maximum 30 seconds the TrustSight driver will set the battery type (number of cells) and will set the emergency output power accordingly.

After that, the system is defined and fully operational. The battery type definition has influence on the performance during the self-test and on the battery charge method. When the automatic battery detection process is disrupted, e.g. by switching off the permanent mains, the detection process is stopped and the TrustSight emergency driver will go into emergency mode with the lowest output power. At a next power up, the automatic detection process will start again.

Periodic testing

Periodic tests of emergency lighting luminaires must be performed according to EN50172 clause 7.2.3 and 7.2.4. Switch on in the emergency mode each month by simulation of a failure of the supply to the normal lighting for a period sufficient to ensure that each lamp is illuminated. Twice per year, each luminaire shall be tested for its full rated duration (at least 3hrs).

For more information please consult the TrustSight Gen 3 Design in guide. The latest version is available online.

LED indicator status

LED indicator *(color / flashing)*	***Error condition***	***Cause***	***Solution***
Green / no flashing		*System OK, battery fully charged*	
Off		*Mains off, EM mode, Rest mode, test in progress*	
Green / slow (0.25s on, 1.25s off)		*System OK, battery is charging*	
Green / fast (0.25s on, 0.25s off)		*System OK, recently tested (< 5 days, Australia mode only)*	
Red / no flashing	*Battery voltage too high or too low*	*No battery connected*	*Connect battery*
		Wrong or bad battery connected	*Replace battery*
Red / fast (0.25s on, 0.25s off)	*Output voltage too low or too high*	*Wrong LED load connected*	*Connect right load and perform functional test*
	No load connected or output shorted	*Wrong connection*	*Connect right load and perform functional test*
Red / slow (0.25s on, 1.25s off)	*Failed test due to battery*	*Battery end of life* *Charger failure*	*Replace battery and perform duration test.* *Replace driver*
Red-green / fast *Fast flashing: (on-time = 0.25s, off-time = 0.25s)* *Slow flashing: (on-time = 0.25s, off-time = 1.25s)*		*DALI device identification*	
Green / short *on-time = 50ms, off-time = 0.95s)*		*Battery detection*	