



INSTALLATION & MAINTENANCE MANUAL

TORCWMST4 / TORCWMST5
TORCWMST6

GENERAL INSTRUCTIONS

These instructions should be read carefully and retained after installation by the end user for future reference and maintenance.

**These instructions should be used to aid the installation of the following products:
TORCWMST4 / TORCWMST5 / TORCWMST6**

SAFETY

- This product must be installed in accordance with the latest edition of the IEE Wiring Regulations (BS7671) and current Building Regulations. If in any doubt, consult a qualified electrician
- Please isolate mains prior to installation or maintenance
- Check the total load on the circuit (including when this luminaire is fitted) does not exceed the rating of the circuit cable, fuse, or circuit breaker
- Please note the IP (Ingress Protection) rating of this product when deciding the location for installation
- This product is Class I and must be earthed
- This product is IP65 rated

INSTALLATION

Note - Microwave sensors may not be suitable for all installations, for example, enclosed spaces, as they are able to detect movement through non-metallic surfaces like plasterboard and thin doors

- Provide power to the required point of installation (refer to BS7671 for correct cabling methods). Suitable IP rated junction boxes should be used where required
- Round cable should be used for the mains supply. The use of a flat cable will cause water to ingress into the fitting
- Using the mounting bracket as a template, mark the location for, and drill the fixing holes ensuring not to infringe with any gas/water pipes or electrical cables. Fixing centres are shown in Fig. 1

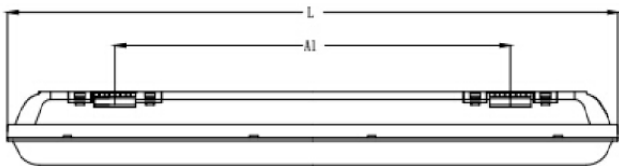


Fig. 1

Product	Length (mm)	Length (ft)	Fixings centres (mm)
TORCWMST4	1260	4	900
TORCWMST5	1560	5	1000
TORCWMST6	1820	6	1000

- Secure the brackets to the surface using suitable fixings
- Unfasten the clips on either side of the luminaire
- Remove the gear tray from the base by pinching the clips at the two locations (see Fig. 2)

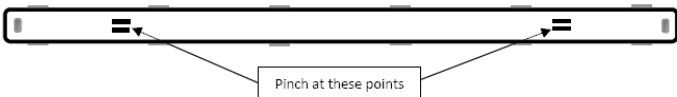


Fig. 2

- Feed the mains cable through the compression gland provided at the end of the luminaire
- Ensuring correct polarity is observed, carefully wire as shown in Fig. 3. Two cables can be inserted into the push-fit terminal block in order to achieve loop-in/loop-out wiring



Fig. 3

- Connect the battery to the inverter via the plug socket
- Select the desired colour temperature via the 3-position switch and the wattage via the switch on the side of the driver (see Fig. 4)

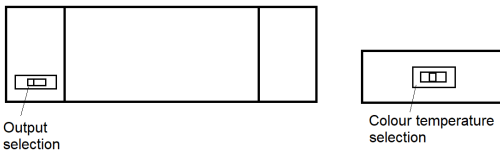
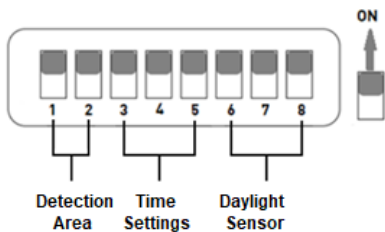


Fig. 4

- Align the body with the mounting brackets and clip it into place
- Tighten the compression gland ensuring a tight seal is made
- Reattach the gear tray to the base
- Select the desired sensor settings
- Switch on and check for correct operation ensuring the green indicator LED is illuminated
- See below for the operation of the self-test function
- We recommend, on commissioning the installation, a minimum charge period of 24 hours before carrying out an emergency duration test

SENSOR DIP SWITCH LAYOUT




Detection Range

- The detection range is the radius in which motion is detected. The below values are valid for an installation at a height of 2.5 metres

On	1	2	
	●	●	2m
	○	●	5m
	●	○	8m
	○	○	10m


Time Settings

- This is the time for which the luminaire stays on after motion has been detected. If a motion is detected before the end time, the timer will reset

On ↑ 	3	4	5	
	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	10s
	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	1min
	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	5min
	<input type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	10min
	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	15min
	<input checked="" type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	20min
	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	25min
	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	30min

Daylight Sensor

- When set to 24H, the sensor will switch on the luminaire regardless of the ambient light levels

On ↑ 	6	7	8	
	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	24H
	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	10lux
	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	20lux
	<input type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	50lux
	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	100lux
	<input checked="" type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	200lux
	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	300lux
	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	500lux

SELF-TEST FUNCTION

When first connected to the mains supply, the fitting will carry out an initial 3-second function test. Any faults will be indicated by the bi-colour LED indicator.

This product is programmed to carry out its self-test operation according to the following programme:

Every 30 days	10-second function test
Every 180 days	3-hour duration test

The test button on the side of the fitting can also be used to initiate functional testing as required – the luminaire will go into emergency mode while the test button is held in.

Following self-tests, the unit will revert to charging mode, and any faults will be indicated by the bi-colour LED indicator as follows:

LED indicator	Status
Slow flash green (3 sec on, 1 sec off)	Charging
Solid green	Fully charged
Fast flash green (0.1 sec on, 0.1 sec off)	Function test underway
Slow flash green (1 sec on, 1 sec off)	Duration test underway
Solid red	Lamp fault (open circuit / short circuit)
Slow flash red (1 sec on, 1 sec off)	Battery fault or failed duration test
Indicator off	Emergency mode

To clear a fault indication, switch off the power to the luminaire and then hold the test button for 10 seconds.

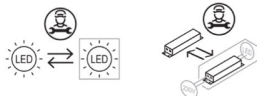
WARNING

This product must be disconnected from the circuit if subjected to any high voltage or insulation resistance testing. Irreparable damage will occur if this instruction is not followed.

GENERAL

This product contains a light source of energy efficiency class C to Regulation (EU) No. 2019/2015 and (UK) 2021 No. 1095.

This product contains an LED light source which can be replaced by a professional and a control gear which can be replaced by a professional.



Clean the external surfaces with a damp cloth using a mild solution of detergent and warm water only, do not use aggressive cleaning products or solvents that may damage the product.

Installing in areas where the temperature consistently drops below 0°C may shorten the battery life.

This product is non-dimmable.

This product should be dismantled for disposal when it reaches the end of its life. Please see website for dismantling instructions.

This product should be recycled in the correct manner when it reaches the end of its life. Check local authorities for where facilities exist.

The batteries in this luminaire are Lithium-Ion and must be disposed of correctly. Please contact the local authorities for the disposal of this toxic waste.

WARRANTY

This product has a warranty of 5 years (excluding the battery) from the date of purchase. Failure to install this product in accordance with the current edition of the IEE Wiring Regulations (BS7671), improper use, or removal of the batch code will invalidate the warranty. If this product should fail within its warranty period, it should be returned to the place of purchase for a free of charge replacement. ML Accessories does not accept responsibility for any installation costs associated with the replacement product. Your statutory rights are not affected. ML Accessories reserve the right to alter product specification without prior notice.

TEST RECORD

Recommended routine test procedure in accordance with BS5266:

- Daily check – check the status of the bi-colour LED indicator
- Monthly functional test – the luminaire will perform this function without any action from the user.
Alternatively, simulate a mains supply failure for approx. 30 seconds by operation of key switch, switching off

the circuit breaker or using test button. Ensure normal supply is restored after the test and check the status of the bi-colour LED indicator

- Every 180 days, 3-hour duration test – the luminaire will perform this function without any action from the user. Alternatively, simulate a mains supply failure for a 3-hour continuous test by operation of key switch, or switching off the circuit breaker. Ensure normal supply is restored after the test and check the status of the bi-colour LED indicator
- If the luminaire fails any of the above tests, please contact a qualified electrician. Results should be recorded, even when obtained via the self-test function. See below for the test record sheet

TEST RECORD SHEET											
INITIAL COMMISSIONING 3 HOUR TEST		SIGNED				DATE					
MONTH	TEST	FIRST YEAR		SECOND YEAR		THIRD YEAR		FOURTH YEAR		FIFTH YEAR	
		SIGNED	DATE	SIGNED	DATE	SIGNED	DATE	SIGNED	DATE	SIGNED	DATE
1	FUNCTIONAL										
2	FUNCTIONAL										
3	FUNCTIONAL										
4	FUNCTIONAL										
5	FUNCTIONAL										
6	FUNCTIONAL										
7	FUNCTIONAL										
8	FUNCTIONAL										
9	FUNCTIONAL										
10	FUNCTIONAL										
11	FUNCTIONAL										
12	3 HOUR										

Installed by:

Installation date:

Contact number:

Supplied By:

(UK) Manufacturer

ML Accessories Ltd, Unit E Chiltern Park, Boscombe Road, Dunstable LU5 4LT,
www.mlaccessories.co.uk

(EU) Authorised Representative

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Email: eprel@nnuks.com

