

SERVICE MANUAL OF: **MA10LED** LIGHT FITTING

Dear customers, thank you for choosing **MariTeam Polska sp. z o.o.** products.

Before using the device, read carefully the Service Manual, Data Sheet and General Warranty Conditions documents.

01 Technical data

- ▶ Power supply: 230V \pm 10%, 0, 50 - 60Hz
- ▶ Connection terminals: 3 x 6mm² (PE)
- ▶ Cable external diameter: 6 – 13mm (cable glands), 6 – 10 (grommets)

02 Installation remarks

- ▶ For direct ceiling installation use appropriate 4 pcs of screws.
- ▶ Make sure not to damage paint coating during installation.
- ▶ Make sure no any works with using of grinding means are made in the area of lamp installation. Grinded pieces can damage the device plastic parts: diffuser, cable inlets and painting cover. This may results deterioration of protection degree (IP) and corrosion resistance of paint coating.

03 Power connection steps/ remarks

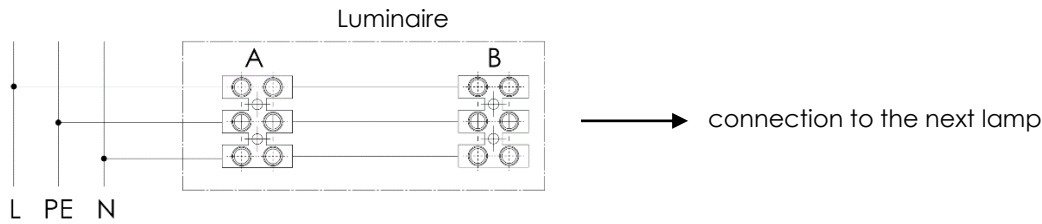
- ▶ The power connection can be made by technicians with appropriate electrical qualifications only.
- ▶ Use 3-wire (for standard version) flexible cable with appropriate wires cross section and external insulation diameter (given in point 1) for connection performance.
- ▶ Never bend the power cord to right angles.
- ▶ For safety reasons earthing effectiveness has to be controlled when wires connection is completed.

For power connection proceed as following:

- ▶ Open the diffuser by releasing clamps.
- ▶ Remove the mounting tray assembly by releasing 4 pcs of fixing screws (just loose the screws, do not unscrew them completely).
- ▶ Put the power cord through the cable gland.
- ▶ Carefully remove ~9mm of wire insulation (ensure not to damage the conductor and other section of insulation), connect conductor to terminal block and safely fix with screws (be sure not to fix with terminal screws insulation instead of conductor).
- ▶ Tighten the cable gland using 2pcs of flat wrench (6Nm – plastic, 12Nm – metal) it is necessary to use one wrench for tightening the gland and another to secure the cable gland nut against rotation).
- ▶ If grommet inlets are used, carefully puncture membrane to put the cable through the device. Make sure the membrane correctly tighten the cable. Inappropriate cable gland tightening or grommets membrane preparation may result lowering the device protection degree index, which may consequence the device damage and loss of producer warranty.

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04 Electric connection scheme



Due to the specificity of electrical installations used on ships, the designations of supply lines change as follows: L-> L1, N-> L2

A→ end connection, from single power line

B→ through connection to another light fitting

1,5mm² wires are used for cross section wiring. Maximum through wiring current is 16A.

05 Maintenance and service remarks

- ▶ Never carry out the device maintenance and/or service works when it stays under voltage.
- ▶ It is not allowed to use uncompleted device or if any part of the device is damaged or in bad shape.
- ▶ In accordance with current regulations every light fitting was equipped with name plate. Every light fitting has included service manual which has to be kept in well accessible place for the entire light fitting lifetime.
- ▶ All repairs (including LED module and/or driver replacement) can be carried out with authorised by manufacturer service only! Every unauthorised modifications or repairs of the device are not allowed and can result in damage of the product, series injury and/or death of users. In this instance all manufacturer's responsibility and warranty is empty. For more information contact with your distributor.

06 Cleaning

- ▶ Do not allow dust and dirt deposition on the lamp. This may cause worse temperature dissipation and result in lifetime shortening or even damage of the device.
- ▶ Avoid soiling the light fitting with paint or grease as they can damage the device or deteriorate its properties (lumen output, corrosion resistance). Any accidental soiling should be removed immediately.
- ▶ Use hot water and soft cloth for lamp cleaning. Use neutral detergent if necessary.
- ▶ It is not allowed using high pressure water jet means for cleaning.

07 Inspections and maintenance

	MINIMUM RATIO	CONDITIONS/ RANGE TO DO
Routine	1/month	Without device deinstallation. Condition of all visible parts (diffuser, cable inlets, paint coating, power cord, name plate readability) check up.

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Maintenance	1/ year	Device deinstalled and opened. Conditions of paint coating, metal parts, sealers, cable inlets, diffuser and optic covers, insulating and carrying current materials (wires insulation, connectors) name plates check up.
Major	2/ year	Device deinstalled and opened. Maintenance inspection like above plus electric tests: power consumption, insulation strenght, earthing effectiveness.

- ▶ All inspections and maintenance work has to be carried out without power supply of the device.
- ▶ Every damage and/or anomaly noticed has to be eliminated immediately.
- ▶ If any special conditions (egz. vibrations, chemical substances, temporary high/low ambient temperature influence) in the place of device installation occurs inspection range and ratio has to be defined individually and cover activities necessary to ensure safe and reliable device operation.

08 Storage conditions

- ▶ Roofed rooms, free of gases causing corrosion; temperature: +5°C - +35°C, humidity<75%.

09 Recycling

- ▶ According to applicable law on Used Electrical And Electronic Equipment, the device is prohibited to be placed together with other/general wastes and therefore has to be forwarded to a company specializing in utilization of this type of equipment.

10 Safety remarks


- ▶ Use the product strictly according to instructions and within limits given in both Data Sheet and Service Manual. Not complying with general safety rules and points given in mentioned documents releases the manufacturer from his warranty obligations and can lead to device damage, serious bodily injury or even death of users.
- ▶ The manufacturer is not liable for damages resulting from improper installation device, not maintaining the proper technical condition and use incorrectly with its destiny.
- ▶ Light fitting are for fixed installations only.
- ▶ Material properties (egz. chemical resistance) has to be considered with respect to light fitting application area. Unsuitable application may cause damage of the device and cause serious bodily injury or even death of users.
- ▶ Original parts coming or specified (in special cases) by a Producer can be used as spare parts only.

DECLARATION OF CONFORMITY EU

The MariTeam Polska sp. z o.o. company declares that the product: MA10LED light fittings meets the requirements of following directives:

DIRECTIVES	STANDARDS
<p>► Directive 2014/30/EU of the European Parliament and of the Council of 26 February 2014 on the harmonisation of the laws of the Member States relating to electromagnetic compatibility</p>	<p>► EN 55015:2013-10 Limits and methods of measurement of radio disturbance characteristics of electrical lighting and similar equipment;</p> <p>► EN 61000-3-2:2014 Electromagnetic compatibility (EMC). Limits. Limits for harmonic current emissions (equipment input current ≤ 16 A per phase);</p> <p>► EN 61547:2009 Equipment for general lighting purposes. EMC immunity requirements;</p>
<p>► Directive 2014/35/EU of the European Parliament and of the Council of 26 February 2014 on the harmonisation of the laws of the Member States relating to the making available on the market of electrical equipment designed for use within certain voltage limits</p>	<p>► EN 60598-1:2015 Luminaires. General requirements and tests</p>
<p>► ROHS Directive 2011/65/EU, Restriction of the Use of Certain Hazardous Substances in Electronic and Electrical Equipment</p>	

The declaration is issued under the sole responsibility of the manufacturer.

Company adress:	Hutnicza 34, 81-061 Gdynia, Poland phone: + 48 58 664 12 52 www.mariteam.pl
Year of affixing the CE marking on the product:	2019
Date and place of issue of the declaration:	15.05.2019 Polska
A signature of the company's Chairman:	 <p>MariTeam Polska Sp. z o.o. 81-061 Gdynia, ul. Hutnicza 34 lok. 48 NIP 585-0-33-41, REGON 191541463 tel. 58 664 12 52, fax 58 664 12 53</p>