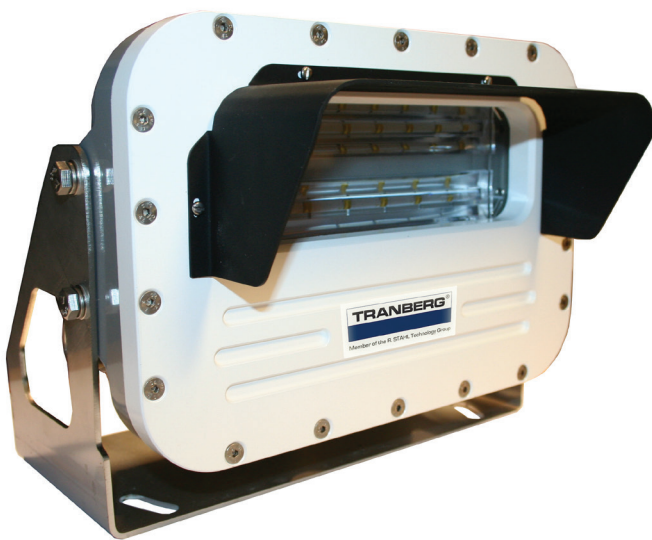


TEF 9970 LED HELIDECK FLOODLIGHT LIGHT USER MANUAL

IMPORTANT

Read this instruction carefully before installing the product



TEF 9970 LED HELIDECK FLOODLIGHT USER MANUAL

INTRODUCTION

Thank you for purchasing this product!
For installation, maintenance and assurance of a long life of this product, please follow this manual.

APPLICATIONS

- Floodlight on helideck, general Floodlighting
- Zone 1, Zone 2 and safe area

CONTENT IN BOX

The product is fully assembled, and ready for installation.

SAFETY PRECAUTIONS



Warning – DO NOT OPEN WHEN ENERGIZED

Warning – THE M8 HEXAGON SOCKET BUTTONHEAD SCREW IN THE JUNCTION BOX OF THIS LAMP SHALL NOT, UNDER ANY CIRCUMSTANCE, BE OPENED OR LOOSENED. THIS WILL AFFECT THE FLAMEPROOF PROPERTIES OF THE LAMP.

Note that changes to the product and /or installation of components which do not conform to the approval, may be a safety violation. The manufacturer will not under any circumstances be held responsible for such activity. For your health and safety, always use safety gear suited for the task. Be certain to follow codes, regulations and /or specific procedures that are related to the installation. The maximum temperature at the entry point of the cable exceeds 70°C, max temperature is 72°C. Make sure that the cables and cable glands which are used can withstand this temperature.

TOOLS REQUIRED

Regular tools required for installation.

- Tools for mounting, e.g. 13 mm wrench – to fasten the mounting bracket to the deck and adjust the angle of the lamp.
- 3 mm hexagon key (Unbraco/Allen key) for mounting the lock to the termination compartment, and to loosen the screws for the terminal assembly, if necessary.
- 32mm wrench to disassemble the blind plug and assemble the cable gland.

APPROVALS

IECEx / ATEX CERTIFIED

Ⓔ II 2 G Ex d e op is IIB + H₂ T4 Gb (T5 version available)

According to:

EN 60079-0:2012
EN 60079-7:2007
EN 60079-28:2007
EN 60079-1:2007
IEC 60079-0:2011
IEC 60079-7:2006
IEC 60079-1:2007
IEC 60079-28:2006
CE 0470

MAINTENANCE INSTRUCTIONS

The floodlight should be inspected according to Company routines. The manufacturer suggests regular check for water intrusion in the termination compartment. The light housing itself is a cemented EXd casing, so this will have no technical concern.

When cleaning, use only mild detergents. Alcohol or petroleum based products may damage the gaskets.

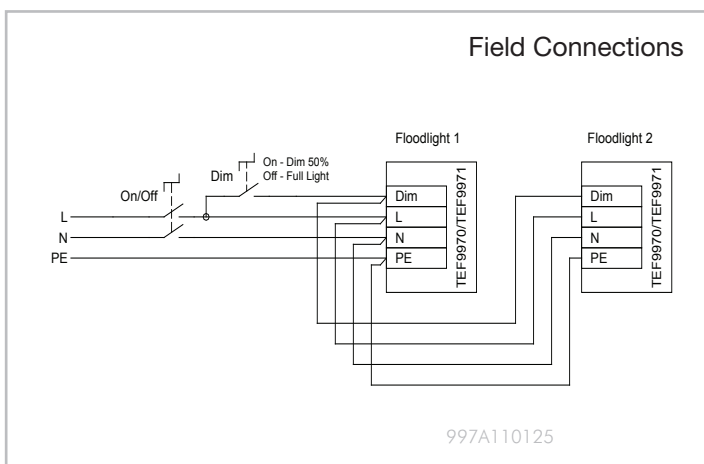
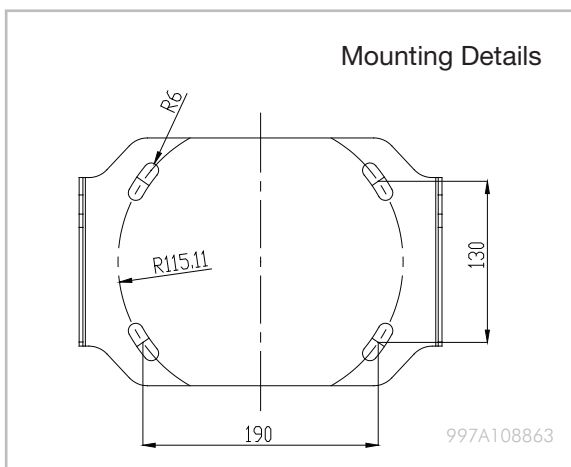
INSTALLATION INSTRUCTIONS

Only qualified personnel are allowed to perform installation and maintenance tasks to this product.

The equipment is ready for installation when leaving the production facilities of Tranberg AS. Check the condition of the equipment and the contents when unpacking. Any damage done to the equipment during transportation is not the responsibility of Tranberg AS. If the content is not complete, file a claim to the manufacturer immediately.

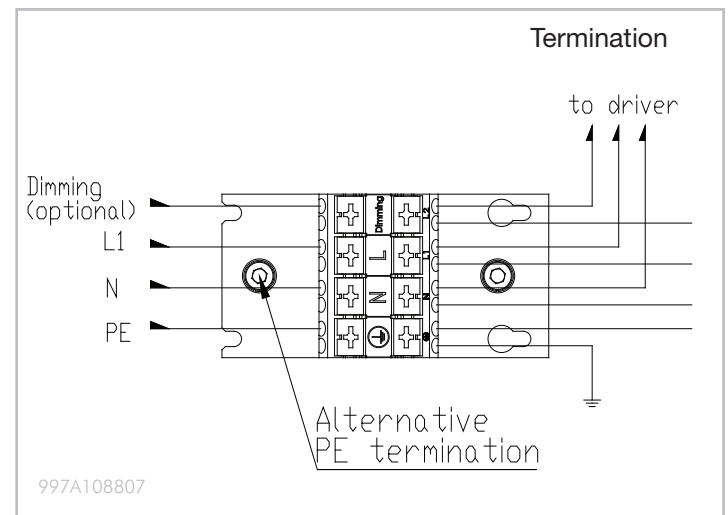
The TEF 9970 is delivered with several mounting options. A mounting bracket for flat surfaces is standard. For the light output to be in accordance with any regulations listed in this document, the helideck floodlight must be mounted on a horizontal surface coincident with the helideck.

The luminaire must always be installed in an upright position. Any other mounting positions should not be used for permanent installation, without a confirmation from Tranberg's technical department. If the luminaire is mounted on a vessel or a floating installation, movements such as roll and pitch, which moves the luminaire out of its original upright position, is not taken into account.



When mounting the lid to the connection compartment, make sure no cables or the safety wire are jammed between the two parts. Check the gasket and make sure that the gasket has no damages on the surface! This will dramatically reduce the ingress protection, and impair the mode of protection regarding hazardous areas. When mounted, there shall be no noticeable gap between the top and the connection compartment. Not following these instructions may lead to a risk of water ingress into the luminaire. The manufacturer assumes no responsibility when these guidelines are not followed.

The terminals in this luminaire consist of a terminal block for phase conductors and PE. Two M5 PE screws are fitted to accept PE cables. The terminal block is of the "Cage clamp" type, and there is no need for a tool to connect or disconnect the phase conductors. Nevertheless a large screwdriver, preferably flathead, may be a good help.



Make sure to use IECEx /ATEX approved cable glands, approved for the specific cable diameter and type, according to the relevant standards listed in "APPROVALS" for group IIB + H₂. These data can be found in the cable gland data-sheet and declaration of conformity. The cable gland shall hold an IP grade of 66 or 66/67. The max and min. temperature for the cable gland shall be over +75°C and under -55°C.

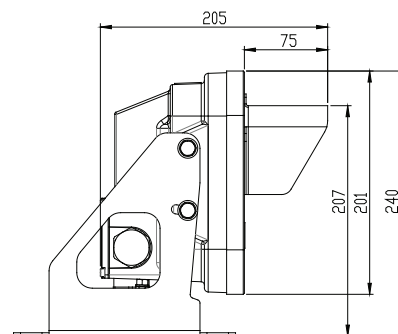
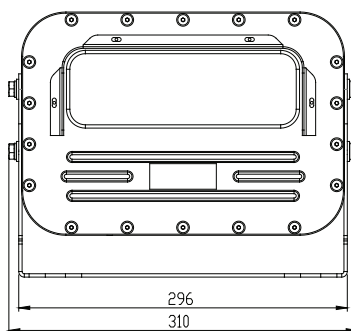
Stopping plugs and drain plug shall be IECEx/ATEX approved according to IEC 60079-0:2011, EN 60079-0:2012, IEC 60079-7:2006, EN 60079-7:2007 for group IIB + H₂ and hold an IP grade of 66 or 66/67. The max and min. temperature shall be over +75°C and under -55°C.

Any damage caused by the use of an incorrect combination of cable and cable gland is not the responsibility of Tranberg AS and is not covered by warranty.

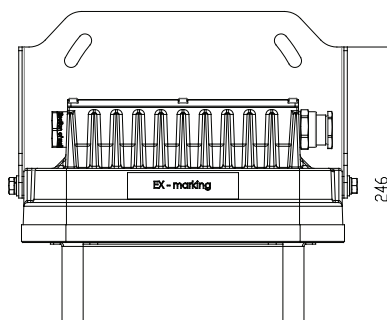
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TECHNICAL DATA

Material:	Marine Aluminum – powder coated, Borofloat safety glass
Power consumption:	Approx. 45 W
Input voltage:	100-277VAC; 140-277VDC
Short-circuit current:	1500A @ 100-254V AC 47-63Hz
Expected lifetime:	50 000 h
Weight:	11 kg
IP rating:	IP 66. (IP 67 without drain plug)
Cable entries:	2 PCS. M25 x 1.5 entries for IECEx / ATEX approved cable glands according to IEC 60079-0:2011, EN 60079-0:2012, IEC 60079-7:2006, EN 60079-7:2007 Delivered with Tranberg cable glands.
Ex classification:	Ⓔ II 2 G Ex d e op is IIB + H ₂ T4 Gb (T5 version available)
Ex certificate no.:	IECEx PRE 14.0060 Presafe 14ATEX5703
CE marking:	CE 0470
Max surface temp.:	<135°C
Tamb:	-55°C to +55°C (+40°C for T5)
Manufacturer:	Tranberg AS
Dimensions:	



997A108285



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