

Technor TNAML- 80.000 hour maintenance free fluo fixture



Repair Management Nederland B.V.
More management less firefighting

Techned TNAML maintenance free luminares

A 10 years operational warranty gives low lifecycle cost* (conditions apply)

100% encapsulated. Maintenance free solution requiring only visual inspection from EX point of view.

Easy and flexible installation

Seawater resistant anodized aluminium.

Tempered glass. Fully recyclable.

Fully recyclable

High light efficiency (80%)

Available with 2x18W / 2x36W / 2x58W lamps

Optional incorporated battery powered LED emergency lighting

Sealed-for-life concept fit and forget.

Patented design

Vibration test.

Vibration tested by Thales

Standard IEC60721-2-3 Ed 1.0 and IEC68-2-6

Frequency range 1-150 Hz

Amplitude 5mm (1 tot 10 Hz)

Acceleration 2 gn (10 to 150 Hz)

Sweep rate 1 octave per minute

Sweep cycles 10, Directions 3

Vibration tested by Sebert Trillingstechniek BV.

Standard: IEC60068-3-3 for Nuclear Generating Stations.

Certificates on request available.



General specifications are:

Modes of protection: Ex e mb, Ex tD A21

ATEX classification: Group II Category 2 G D

Zones: Zone 1, 2, 2, 22

Applied standards EN/IEC: 60079-0, 60079-7, 60079-18
EN: 60079-31, 62262, 60598-2, 60598-2-1
600598-2-22, EN 55015, EN 61000-3-2, EN61000-3-3

Approvals:

IECEX: Dek 11.0075,
ATEX: DEKRA 11ATEX0133

Ex code: Gas Ex II 2 G Ex e mb II T5/T6

Stof Ex II 2 D Ex tD a21 IP68 T80° /100° C

Inspection: Visual inspection in accordance with
EN/IEC 60079-17

Product specifications are:

Housing: Seawater resistant anodized (25 micron) NORSOK 121 aluminium
with tempered glass.

Lamps: Pre-mounted long life lamps, colour 4000K

IP Rating; **IP68**, by DEKRA 211978700

Temperature range: From -20° C to 55° C for standard version and -20° C to +30° C for emergency version.

Voltage: 220-264VAC, 50/60Hz

Electrical connection: 0,5-6mm² spring terminals through integrated external
junction box (sealed by resin after installation and test).

Entries: 2 x M25 cable gland entries. One plugged.

Glands must be ordered separately

Ballast: Electronic with and of life protection.

Mounting: 2 x adjustable brackets on guidance rail for easy and
quick installation.

LED (Em. Version) 90 minutes battery backup on emergency version.
Disconnecting possibility during installation by "B" terminal.

Battery lifetime: 300 cycles, automatic random test each 100 days.

Options: Upon request quantities may high due to minimum production

Voltage: 110/120VAC, 50/60Hz (only for 2x18W and 2x36W)

Lamps: Colour 3000K

Electronic connection: 8 meters permanent flying lead, braided.

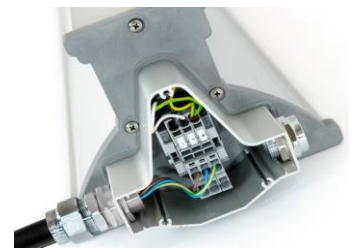
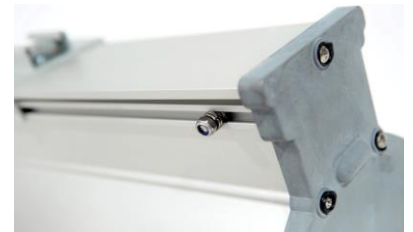
LED Emergency: 180 minutes backup

4 LED's to meet requirements of IMO/DNV-OS-A101

Glass: For use in accordance with HACCP environment
(food industry) DEKRA certificate available, Zone 2 & 22.

Wiring: Through wiring (each end of the luminaire aconnection box).

Other area Class.: Zone II, Ex n, 3GD (TNAMLC) or safe area version (TNAMLD)



Accessoires:

- Anti-corrosion set: Special set to prevent bi-metallic corrosion on the mounting bracket in salt water conditions.
(Must be ordered for use on board of vessels).
- Mounting brackets: Pole and ceiling mounting brackets
- Safety wire: For installation into a fixing arrangement on the fitting.
- Cable gland: Suitable rated cable glands can be supplied with the light fitting. (one or two per fixture)
- Manned/unmanned facilities: Black Start function for manned/unmanned functionality.
- Indoor ceiling install. Frame for recessed installation.

Atex Zone 1-21

Number	Description	Light output in Lumen:	
02TE222450	TNAML EX 2x18W	2x18W	2600 lumen
02TE222451	TNAML EX 2x36W	2x36W	6000 lumen
02TE222452	TNAML EX 2x58W	2x58W	10400 lumen
02TE222453	TNAML EX EM 2x18W Emergency backup	2x18W	2600 lumen
02TE222454	TNAML EX EM 2x36W Emergency backup	2x36W	6000 lumen
02TE222455	TNAML EX EM 2x58W Emergency backup	2x58W	10400 lumen

Atex Zone 2-22

Number	Description	Light output in Lumen:	
02TE223450	TNAML EX 2x18W	2x18W	2600 lumen
02TE223451	TNAML EX 2x36W	2x36W	6000 lumen
02TE223452	TNAML EX 2x58W	2x58W	10400 lumen
02TE223453	TNAML EX EM 2x18W Emergency backup	2x18W	2600 lumen
02TE223454	TNAML EX EM 2x36W Emergency backup	2x36W	6000 lumen
02TE223455	TNAML EX EM 2x58W Emergency backup	2x58W	10400 lumen

NON Atex Industrial

Number	Description	Light output in Lumen:	
02TE221450	TNAML EX 2x18W	2x18W	2600 lumen
02TE221451	TNAML EX 2x36W	2x36W	6000 lumen
02TE221452	TNAML EX 2x58W	2x58W	10400 lumen
02TE221453	TNAML EX EM 2x18W Emergency backup	2x18W	2600 lumen
02TE221454	TNAML EX EM 2x36W Emergency backup	2x36W	6000 lumen
02TE221455	TNAML EX EM 2x58W Emergency backup	2x58W	10400 lumen

Special installation instructions are enclosed in each box with the fixture.
A cartridge with a special sealing product for the junction box is also included.

02TE6030 Anti-corrosion connection set for marine applications

7748075EX Cable gland M25 Exd with rubber seals.

