Technor TNAML- 80.000 hour maintenance free fluo fixture

Technor RMS Fluorescent fixtures Glamox MIX-Z Fluorescent fixtures Glamox Max-Z Fluorescent fixtures





management less firefighting

Techned TNAML maintenance free luminiares

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 anaodized 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 Nucleair Generating Stations.

Certificates on request available.

General specifications are:

Modes of protection: Ex e mb, Ex tD A21 Group II Category 2 G D ATEX classification:

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

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

Visual inspection in accordance with Inspection:

EN/IEC 60079-17

Product specifications are:

Ex code:

Glass:

Seawater resistant anodized (25 micron) NORSOK 121 aluminium Housing:

with tempered glass.

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

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

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

Voltage: 220-264VAC, 50/60Hz

0.5-6mm² spring terminals through integrated external Electrical connection:

junction box (sealed by resin after installation and test).

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

Glands must be ordered separately

Electronic with and of life protection. Ballast: 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.

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

Options: Upon request quantities may high due to minimum production

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

Colour 3000K Lamps:

8 meters permanent flying lead, braided. Electronic connection:

180 minutes backup LED Emergency:

4 LED's to meet requirements of IMO/DNV-OS-A101 For use in accordance with HACCP environment

(food industry) DEKRA certificate available, Zone 2 & 22.

Wiring: Through wiring (each end of the luminiare aconnection box). Zone II, Ex n, 3GD (TNAMLC) or safe area version (TNAMLD) Other area Class.:









Accessoiries:

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 Black Start function for manned/unmanned functionality.

facilities:

Indoor ceiling install. Frame for resessed installation.

Atex Zone 1-21



Number	lumber 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

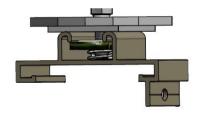
NON Atex Industrial

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	
77/8075EV	Cable gland M25 Evd with rubber scale	







Glamox Fluo fixture type MIX-Z 67 ATEX ZONE 2, II 3GD Eex nA T3

Watertight fixture for marine and offshore.

Certified by accredited certifications according to Ex n norms IEC-79-15

MIX67: 3GD Eex nA T3, IP 66/67 Ta=30°C/45°C.

Mechanical impact (EN 50 102): IK 10

Available in 230V 50 or 60 Hz, and 110V 60Hz

Body of deep Aluzink, Stove enamelled white epoxy/polyster powder finish.

Diffuser made of impact resisting polycarbonate (PK) or optionally chemical resistant (Kembest) material.

A white plate of Aluzink covers the electrical gear.

Two T8 lamps with spring loaded lamp holders.

HF electronic ballast for emergency versions (HF-E3)

Both sides one M20 gland and blind plug. Trough wiring (TW) 5x2.5 mm² is standard.

Emergency lights possible (E1) one hour (E3) three hour. In 58W only one hour possible.



GLAMO

Number	Description	Watt	Volt/Hz	L in mm	C in mm
89GL1141	MIX-Z 67 218F TW PK	2x18W	230/50	724	704
89GL1142	MIX-Z 67 236F TW PK	2x36W	230/50	1334	1314
89GL1143	MIX-Z 67 258F TW PK	2x58W	230/50	1634	1614
89GL1144	MIX-Z 67 218F E3 TW P	2x18W	230/50	858	838
89GL1145	MIX-Z 67 236F E3 TW P	2x36W	230/50	1468	1448
89GL1146	MIX-Z 67 258F E1 TW P	2x58W	230/50	1768	1748
89GL1147	MIX-Z 67 218F 3/6 TW	2x18W	230/60	724	704
89GL1148	MIX-Z 67 236F 3/6 TW	2x36W	230/60	1334	1314





Glamox Fluo fixture type MAX-Z 67 Hazardous area, zone 1 Ex edms IIC T4, IP66/67

Watertight fixture for marine and offshore.

NEMKO certificate no EX 97D184

MAX: IP66/67 Ta=45°C, Zone 1 Ex edms IIC T4

Mechanical impact (EN 50 102): IK 10

Available in 230V 50 or 60 Hz, and 110V 60Hz

Body of deep drawn Aluzink, Stove enamelled white epoxy/polyster powder finish.

Diffuser made of impact resisting polycarbonate (PK) or optionally chemical resistant (Kembest) material.

A white plate of Aluzink covers the electrical gear.

Two T8 lamps with Glamox zone 1 lamp holders.

Standard luminaire is delivered with electronic ballast (HF)

Both sides one M20 gland and blind plug. Trough wiring (TW) 6x2.5 mm² is standard.

Emergency lights possible (E1) one hour (E3) three hour. In 58W only one hour possible.

Number	Description	Watt	Volt/Hz	L in mm	C in mm
89GL1151	MAX-Z 67 218HF TW PK	2x18W	230/50	724	704
89GL1152	MAX-Z 67 236HF TW PK	2x36W	230/50	1334	1314
89GL1153	MAX-Z 67 258HF TW PK	2x58W	230/50	1634	1614
89GL1154	MAX-Z 67 218HF E3 TW	2x18W	230/50	858	838
89GL1155	MAX-Z 67 236HF E3 TW	2x36W	230/50	1468	1448
89GL1156	MAX-Z 67 258HF E1 TW	2x58W	230/50	1768	1748







The RMS range of Zone 1 fluorescent luminiares is manufactured from AISI304 stainless steel.

The body is fabricated from AISI304 stainless steel. The body is fabricated from a single sheet with no invasive mounting holes to minimize the risk of water ingress through the housing. The tempered glass window minimizes the risk of light output loss over time due to polycarbonate yellowing. The RMS range is ideally suited for on and offshore and marine environments and all kinds of industry where there is a high level of corrosion.

Specifications are:

Material: Stainless Steel AISI 304/AISI 316, 0.8 mm thickness

and transparent part in tempered glass.

IP Rating: IP66

Temperature: From -20°C to 60°C

Approvals: INERIS 01ATEX0060

Brazilian 08/UL-BRCP-0001

GOST Certificaat

Standards: EN/IEC: 60079-0. 60079-1, 60079-7

EN: 61241-0, 61241-1

Ex-code: Ex II 2 GD

Ex de IIC T6 (-20° C to 40° C) Ex de IIC T5 (-20° C to 55° C) Ex de IIC T4 (-20° C to 60° C)

Ex tD A21 IP66/67 T85° C / T 100° C / T 135° C) According to European Directive 94/9/EC (ATEX)

For Zone 1 / zone 2, zone 21 / zone 22

Gaskets: Special cross section tightness gasket, silicon rubber made

(close cells) located in housing channel between body and

window frame.

Entries: Body complete of two diam. 21mm through holes for

cable entries, one complete of metalic plug with lock nut and gasket, and the other one with plastic plug for dust

protection.

Hardware & screws: AISI304 Stainless Steel external hardware and screws

Lamp: Lampholder suitable for fluorescent two pins lamp

type PHILIPS TL-D or equivalent.

Lamps wattage: 18 / 36 Watt

Ballast: High frequence electronic ballast Rated operation 220/240 V

Rated operation Voltage (UE)

Frequence: 50-60Hz Power factor: > 0.95

Accessoiries: Suspension mounting kit G1 AISI304
On request: Wall mounting kit H1 AISI304

Pole mounting kit P12 AISI304

(not suitable for 18W emergency version)

Emergency service: Available for emergency service see RMS 560 PNL/LE-P

Number	Description
020100	RMS560 1x18W, stainless steel, 230V
020101	RMS560 2x18W, stainless steel, 230V
020102	RMS560 1x36W, stainless steel, 230V
020103	RMS560 2x36W, stainless steel, 230V

 $\mbox{\it With Micro Switch}$: When opening the frame-window the micro-switch will cut out the power supply.

020104	RMS560 MS 1x18W, stainless steel, 230V
020105	RMS560 MS 2x18W, stainless steel, 230V
020106	RMS560 MS 1x36W, stainless steel, 230V
020107	RMS560 MS 2x36W, stainless steel, 230V

With emergency service on one lamp for 60 with constant lighting output **With emergency service** on one lamp for 90 with lighting output decreasing

020110	RMS560 EM 1x18W, stainless steel, 230V
020111	RMS560 EM 2x18W, stainless steel, 230V
020112	RMS560 EM 1x36W, stainless steel, 230V
020113	RMS560 EM 2x36W, stainless steel, 230V
020119	Wall mounting kit H1 AISI304
020120	Pole mounting kit P2 AISI304



