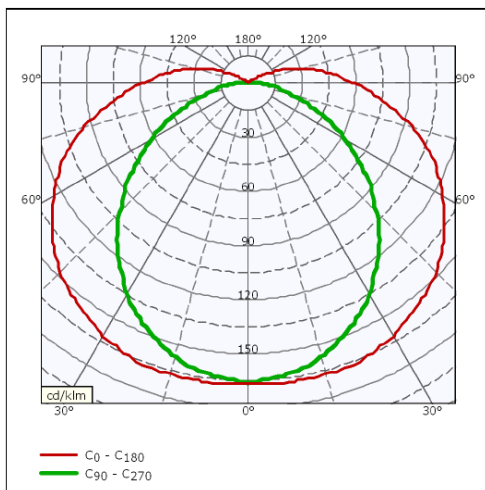


**IP65 FLUO 2X17W 2X32W****FEATURES**

- Housing made of reinforced polyester glass fiber (GRP)
- High transparent and impact resistant PC diffuser
- Both standard and emergency modes available
- Operation and survive in extremely cold temperature down to minus 40 degrees (-40°C / -40°F)
- UL electronic ballast, EEI=A2
- IP65 rating

CHARACTERISTICS

2X17W

Item No.	FL02H218-4	FL02I218-4	FL02H218-4-H	FL02J218-4
GE part number	109W1982P001	109W1982P002	109W1982P003	109W1982P004
Characteristics	2ft Light, Standard, Standard Weather (SW)	2ft Light, Emergency Backup, SW	2ft Light, Heater, Cold Weather (CW)	2ft Light, Emergency Backup and Heater, CW
Lamp type	Fluorescent Lamp T8 2x17W			
Rated voltage	120-277VAC 50/60Hz	120/277VAC 50/60Hz	120/277VAC 50/60Hz	120/277VAC 50/60Hz
Input power	34W	34W	34W	34W
	-	-	74W (Heater Works)	74W (Heater Works)
Input current	0.12-0.27A	0.13-0.28A	0.12-0.27A	0.13-0.28A
	-	-	0.27-0.62 (Heater Works)	0.27-0.62 (Heater Works)
Power factor	>0.98	>0.95	>0.98	>0.95
Battery voltage	/	1.8Ah, 4.8V	/	1.8Ah, 4.8V
Charging time	/	24H	/	24H
Discharge time	/	>90 minutes	/	>90 minutes
Operation temperature	-15~50°C	-15~50°C	-30~50°C	-30~50°C
Survival temperature	-20~60°C	-20~60°C	-40~60°C	-40~60°C
Lumen output	1800 LM			
Battery life time	/	5 years	/	5 years
Abnormal protection	short-circuit Protection with auto-reset			
Applicable standards	UL1598; CAN/CSA 22.2 No.250.0 and the Canadian country-specific requirements			

CHARACTERISTICS

2X32W

Item No	FL02H236-4	FL02I236-4	FL02H236-4-H	FL02J236-4
GE part number	-	-	108W9547P003 108W9547P007	108W9547P001 108W9547P002
Characteristics	4ft Light, Standard, Standard Weather (SW)	4ft Light, Emergency Backup, SW	4ft Light, Heater, Cold Weather (CW)	4ft Light, Emergency Backup and Heater, CW
Lamp type	Fluorescent Lamp T8 2x32W			
Input voltage	120-277VAC 50/60Hz	120/277VAC 50/60Hz	120/277VAC 50/60Hz	120/277VAC 50/60Hz
Input power	64W	70W	64W	70W
	-	-	104W (Heater Works)	110W (Heater Works)
Input current	0.23-0.53A	0.25-0.58A	0.23-0.53A	0.25-0.58A
	-	-	0.38-0.86A (Heater Works)	0.40-0.91A (Heater Works)
Power factor	>0.98	>0.95	>0.98	>0.95
Battery voltage	-	1.8Ah, 4.8V	-	1.8Ah, 4.8V
Charging time	-	24H	-	24H
Emergency time	-	>90 minutes	-	>90 minutes
Operation temperature	-15~50°C	-15~50°C	-30~50°C	-30~50°C
Survival temperature	-20~60°C	-20~60°C	-40~60°C	-40~60°C
Lumen output	3600 LM			
Battery life time	-	5 years	-	5 years
Abnormal protection	short-circuit Protection with auto-reset			
Applicable standards	UL1598; CAN/CSA 22.2 No.250.0 and the Canadian country-specific requirements			

CHARACTERISTICS



FL02H218-4/FL02H236-4: Standard Luminaire, with UL approved Philips electronic ballast

FL02H218-4-H/FL02H236-4-H: Standard + Heater Luminaire, with UL approved Philips or equivalent brand electronic ballast and automatic heating system

FL02I218-4/FL02I236-4: Emergency Luminaire, with UL approved electronic ballast and emergency module

FL02J218-4/FL02J36-4: Emergency + Heating Luminaire, with UL approved electronic ballast, emergency module and automatic heating system

Phenix Emergency module (type No.184000/184010) is UL approved. Battery pack is replaceable.



The **automatic heating system** is used to ensure the luminaire to work well under arctic weather condition. The heating system will start working automatically when the internal temperature of the luminaire is on or below $5^{\circ}\text{C} \pm 4^{\circ}\text{C}$ and will stop working when the temperature reaches up to $20^{\circ}\text{C} \pm 3^{\circ}\text{C}$.

GE product description added (without fluorescent lamps):

109W1982P001: 120V/60Hz-Standard Luminaire, 2pcs M20 cable glands

109W1982P002: 120V/60Hz-Built in emergency battery function, 90minutes, 2pcs M20 cable glands

109W1982P003: 120V/60Hz-Built in heater, 2pcs M20 cable glands

109W1982P004: 120V/60Hz-Built in emergency battery function, 90minutes, heater, 2pcs M20 cable glands

109W1982P101: Fluorescent lamp T8, 17W

108W9547P001: 120V/60Hz-Built in emergency battery function, 90minutes, heater, 1pc M20 cable gland

108W9547P002: 120V/60Hz-Built in emergency battery function, 90minutes, heater, 2pcs M20 cable glands

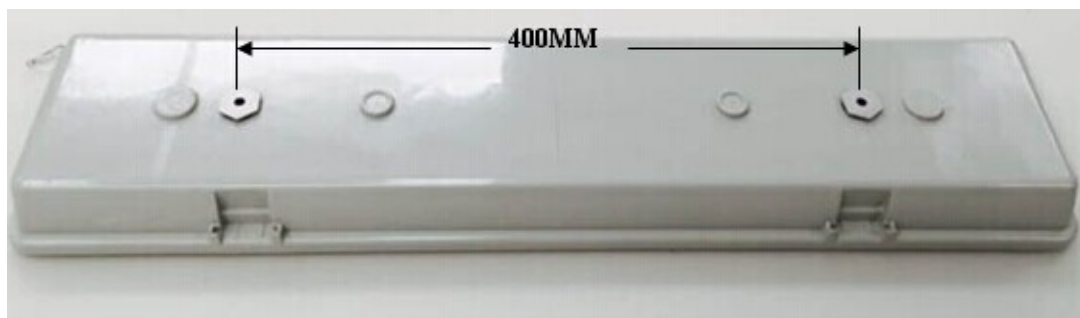
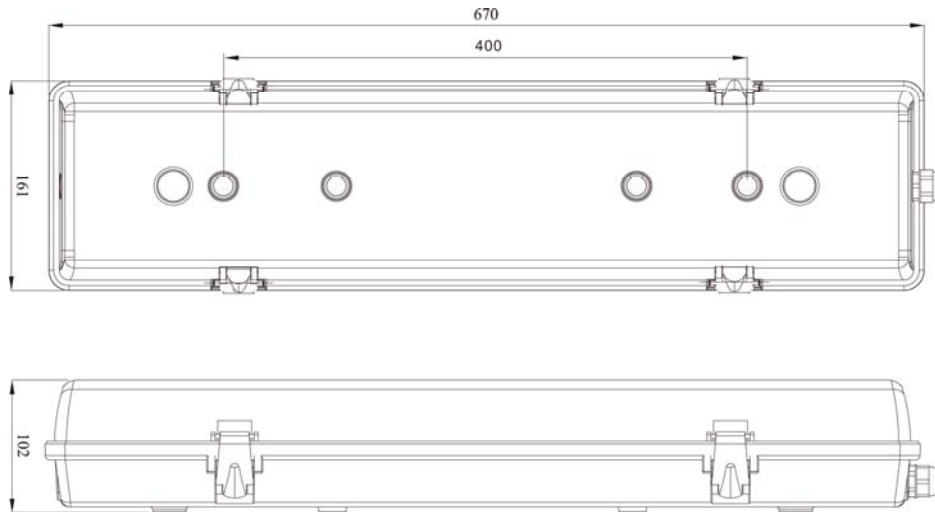
108W9547P003: 120V/60Hz-Built in heater, 2pcs M20 cable glands

108W9547P007: 120V/60Hz-Built in heater, 1pc M20 cable gland

FL02H218-4/FL02I218-4/ FL02H218-4-H/FL02J218-4:

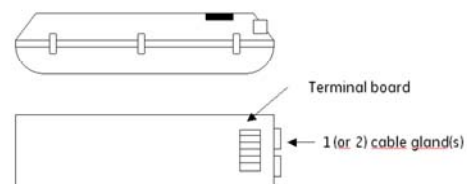
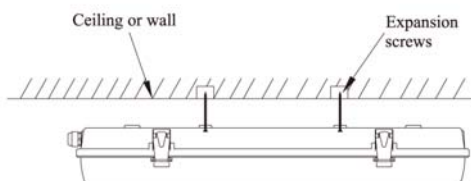
Mounting distance: 400mm

2pcs mounting holes ready for M6 crosshead or inner hexagon head bolts.

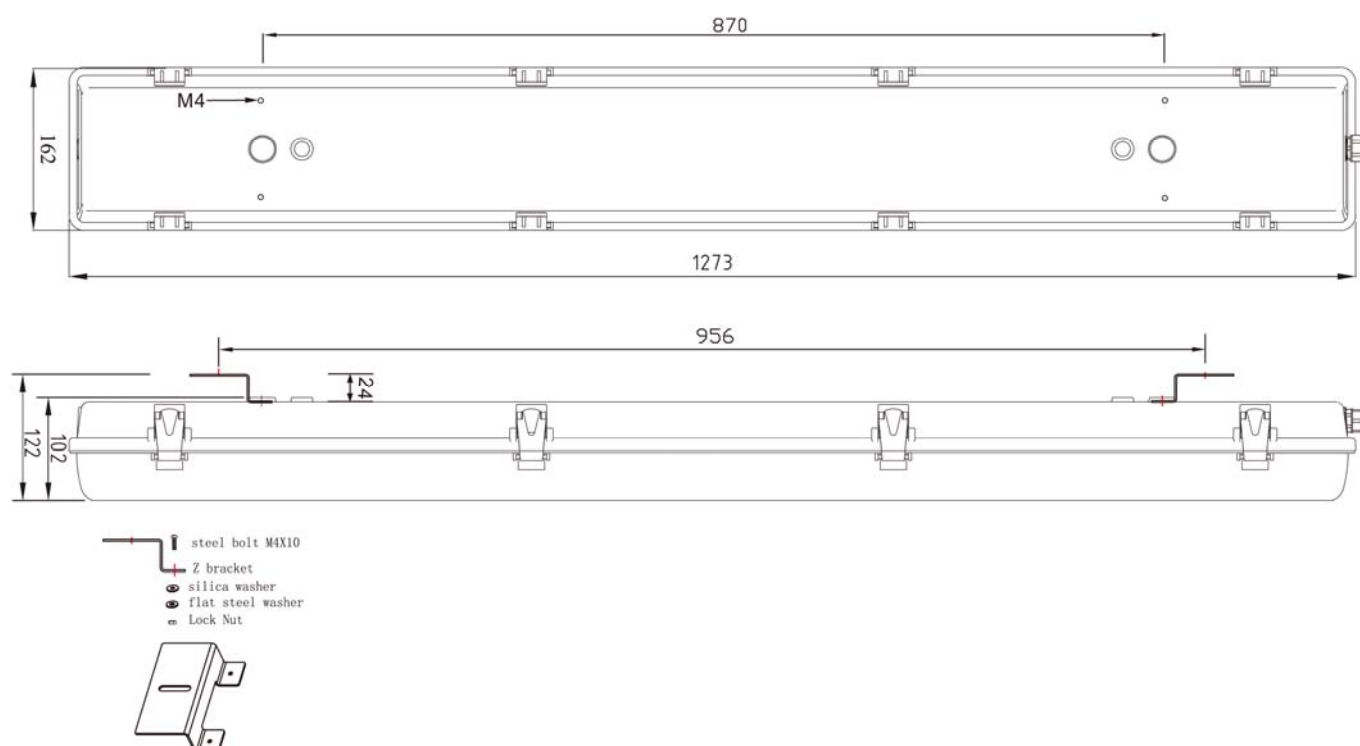


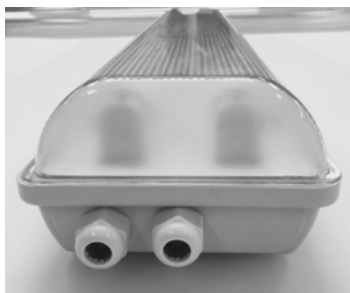
Ceiling or wall mounting:

The terminal board side shall be prepared with two openings for installing of cable glands or a dummy plug (see sketch below). The lights have to be supplied with two cable glands (M20, minimum clamping range 7 – 13 mm), two locknuts (M20) and one dummy plug (M20).

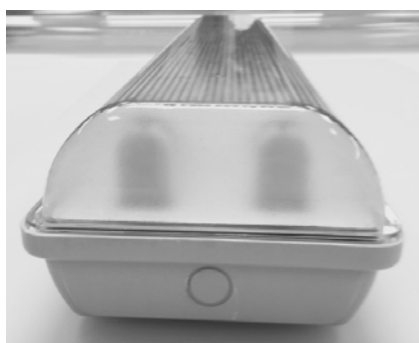


FL02H236-4/FL02I236-4/ FL02H236-4-H/FL02J236-4:

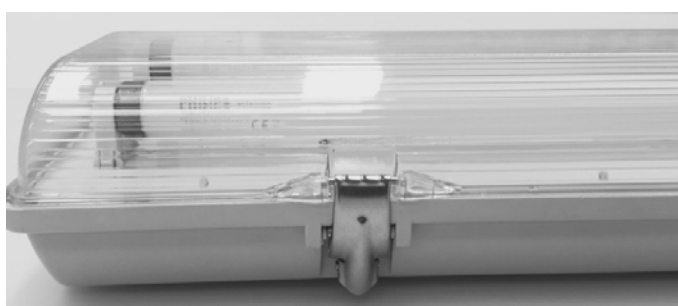
**Z brackets, 4 holes M4 for the Z brackets)**



1 or 2PCS M20 cable gland on each side



1PC M20 punching hole on other side



PC plastic or stainless steel clips with anti-falling off structure

Input Voltage: 120/277VAC**For FL02H218-4:****Input: 120-277V**

N	N: NEUTRAL
Pe	Pe: GROUND
L	L: 120V-277V

For FL02H218-4-H:**Input: 120V**

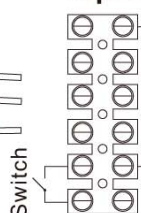
L2
L3
Pe
N
L1

L1-Pe-N(120-277V): Charging mode
 L2-Pe-N(120V): Heating system

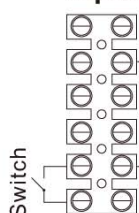
Input: 277V

L2	L2: Heating system (120V)
L3	L3: Heating system (277V)
Pe	Pe: GROUND
N	N: NEUTRAL
L1	L1: LINE Circuit(120V-277V)

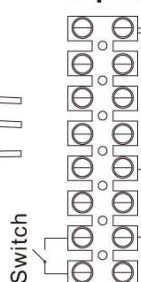
L1-Pe-N(120-277V): Charging mode
 L3-Pe-N(277V): Heating system

For FL02I218-4:**Input: 120V**

L1
L2
Pe
N
S1
S2

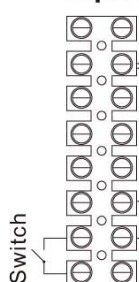
Input: 277V

L1	L1: LINE Emergency Circuit(120V)
L2	L2: LINE Emergency Circuit(277V)
Pe	Pe: GROUND
N	N: NEUTRAL
S1	
S2	

For FL02J218-4:**Input: 120V**

L1
L2
N
Pe
L3
L4
S1
S2

S1-S2(120V): Normal mode
 L1-Pe-N(120V): Charging mode
 L3-Pe-N(120V): Heating system

Input: 277V

L1	L1: LINE Emergency Circuit(120V)
L2	L2: LINE Emergency Circuit(277V)
N	N: NEUTRAL
Pe	Pe: GROUND
L3	L3: LINE Emergency Circuit(120V)(Heating system)
L4	L4: LINE Emergency Circuit(277V)(Heating system)
S1	
S2	

S1-S2(277V): Normal mode
 L2-Pe-N(277V): Charging mode
 L4-Pe-N(277V): Heating system

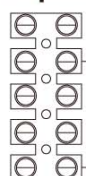
Input Voltage: 120/277VAC**For FL02H236-4:****Input: 120-277V**

N N: NEUTRAL
 Pe Pe: GROUND
 L L: 120V-277V

For FL02H236-4-H:**Input: 120V**

L2
 L3
 Pe
 N
 L1

L1-Pe-N(120-277V): Charging mode
 L2-Pe-N(120V): Heating system

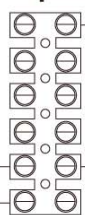
Input: 277V

L2 L2: Heating system (120V)
 L3 L3: Heating system (277V)
 Pe Pe: GROUND
 N N: NEUTRAL
 L1 L1: LINE Circuit(120V-277V)

L1-Pe-N(120-277V): Charging mode
 L3-Pe-N(277V): Heating system

For FL02I236-4:**Input: 120V**

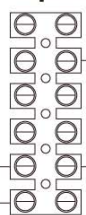
Switch



L1
 L2
 Pe
 N
 S1
 S2

Input: 277V

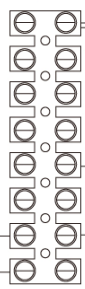
Switch



L1 L1: LINE Emergency Circuit(120V)
 L2 L2: LINE Emergency Circuit(277V)
 Pe Pe: GROUND
 N N: NEUTRAL
 S1
 S2

For FL02J236-4:**Input: 120V**

Switch

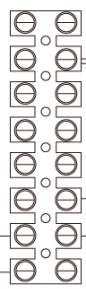


L1
 L2
 N
 Pe
 L3
 L4
 S1
 S2

S1-S2(120V): Normal mode
 L1-Pe-N(120V): Charging mode
 L3-Pe-N(120V): Heating system

Input: 277V

Switch



L1 L1: LINE Emergency Circuit(120V)
 L2 L2: LINE Emergency Circuit(277V)
 N N: NEUTRAL
 Pe Pe: GROUND
 L3 L3: LINE Emergency Circuit(120V)(Heating system)
 L4 L4: LINE Emergency Circuit(277V)(Heating system)
 S1
 S2

S1-S2(277V): Normal mode
 L2-Pe-N(277V): Charging mode
 L4-Pe-N(277V): Heating system

➤ Wind power system



➤ Ships



➤ Freezers



➤ Any other harsh indoor and outdoor locations

