



User Instruction & Installation Manual

LX230 100 Watt 12/24/240v H.I.D Xenon Searchlight



Product Reference Number:

A6083/A6104 – LX230 Deck
A6085/A6106 – LX230 DP

A6084/A6105 - LX230 Cabin
A6086/A6107 - LX230 CP

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1 - Introduction

It is imperative that this manual is read carefully and understood before installing your equipment. For your future reference please keep this manual in a safe place.

Thank you for specifying a product from the Francis Searchlights range. All Francis products are designed to give complete customer satisfaction and are manufactured to the highest engineering standards in order to ensure optimum performance and service life.

The Francis Xenon range combines features proven over many years service in the most hazardous conditions in both marine and land installations.

In order to prolong the life and performance of your product, we recommend that you only specify Francis Searchlights spare parts. This will also ensure that any warranties on your equipment will not be invalidated. Information on spares ordering and parts is provided in this manual.

Should you ever need to contact Francis Searchlights Ltd. regarding your equipment, please quote the Product Serial Number at all times.

2 - Safety Precautions

The following instructions must be adhered to, in order to ensure a safe working environment and the safety of the user.

Note: When unpacking or manoeuvring the searchlight into its fixing position, suitable lifting points must be used in order to prevent damage to the equipment or personal injury.

- Because of the high internal pressure within the lamp, there is a risk of explosion in either a hot or cold state;
- During operation this lamp emits intense UV radiation which is harmful to the eyes and skin. Suitable protection should be worn;
- The high luminance of the arc can cause severe damage to the eye if viewed directly. ALWAYS wear suitable protective goggles when viewing the lamp;
- Always use protective sleeves supplied with the lamp whilst handling;
- Should it be necessary to examine the lamp with the front bezel removed, always use a protective shield and wear goggles to ensure a safe working environment;
- Searchlights get hot. Never touch the unit when lit and always allow 15 to 20 minutes for cooling down after turning the searchlight off;
- Never place anything on or cover the searchlight when in use;
- Ensure the lamp has cooled sufficiently before removal;
- If undue force appears necessary to remove the lamp, the equipment should be inspected by a competent person or contact the manufacturer;
- When disposing of lamps, return the lamp, via the supplier, to the lamp manufacturer in its complete packaging;
- Due to the vast range of lamps available it may appear possible that more powerful lamps can be used in the equipment than for which it was designed. Even when the unit will physically accept a higher wattage or voltage lamp, this substitution is not recommended and is dangerous. This action will also void any warranties on the equipment.
- Always refer to the lamp manufacturer's technical data when dealing with lamps.

3 – Technical Information

This product has been designed to operate in accordance with the product specification. The LX230 100watt H.I.D Xenon searchlight has the following features:

- All marine grade materials and fixings;
- Stove enamel painted;
- Full 360° horizontal rotation;
- Vertical movement $\pm 45^\circ$ (Deck); -25° to $+30^\circ$ (Cabin);
- Instant lamp re-strike. No cooling down time required;
- Economical 3000 hour lamp life;
- Toughened front glass;
- Colour temperature 6000K;
- Sealing to IP66.

The searchlight also performs to the following optical data:

- Xenon H.I.D light source
- Lamp Wattage - 100 Watts;
- Supply voltage – 9.5v to 30v DC;
- Peak Beam Candlepower – 3,100,00 lux;
- Range – 1,761 metres;
- Adjustable lamp focus, 5° spot to 29° flood;
- Temperature range: -40°C

In order that the searchlight operates correctly it is imperative that competent personnel are responsible for the installation, operation and servicing of this equipment. Failure to adhere to this advice may cause premature failure or incorrect operation of the searchlight, which may damage the equipment or cause personal injury.

4 - Unpacking and Installation Instructions

The following instructions should be read and fully understood prior to installing the equipment to ensure that the correct procedures are followed and all safety precautions are observed.

Note: If the equipment has been in storage for a considerable amount of time, it is advisable to conduct a routine maintenance check on all parts before installation.

Safety Precautions

This equipment should not be connected to an electrical supply before being installed. Installation procedures should be adhered to in order to ensure a safe working environment and reduce the risk of damage or personal injury.

Preparing the Mounting Position

Mark out and drill the fixing holes through the deck, using the template provided. If anti-vibration mounts are to be fitted, the fixing holes for the mounts should also be marked out and drilled. Prior to manoeuvring the searchlight into its' fixing position, the AV mounts should be fitted to the base. In the case of cabin control models, a centre hole is also required to allow the mechanism to pass through.

Fit the 'O' ring in position and bolt the searchlight down securely. On an uneven surface it is necessary to use a suitable sealant, such as silicone, to ensure a weatherproofed joint. For cabin control models it is necessary to remove the underdeck control assembly prior to installation.

Using the Allen key provided, the five grub screws on the underdeck mechanism should be loosened to allow the underdeck control assembly to be removed. The outer tube can now be positioned through the centre hole. The searchlight base can now be securely fixed as stated above.

Upon installation, re-assemble the underdeck control mechanism ensuring the grub screws are secure and the mechanism operates correctly.

Fitting Instructions for Lite Range Cabin Model

Preparing the Mounting Position

Using the template provided mark out and drill the fixing holes through the deck or cabin roof. In the case of cabin control models, a centre hole is also required to allow the mechanism to pass through.

Mounting the Searchlight

For Deck Models:

Fit the 'O' ring in position and bolt the searchlight base securely down. On an uneven surface it is necessary to use a suitable sealant, such as silicone, in order to ensure a weather proofed joint.

For Cabin/Cabin Pedestal Models:



1. Remove the Base Lock Wheel.



2. Replace Lock Wheel with M8 x 10 hexagon screw in the bottom fixing



3. Now remove the following items as these are only required on deck models Barrel Lock Wheel, Elevation Link and fixings



4. When installing the Under Deck mechanism, first separate the following items. U-Piece Assembly, M8 nyloc nut, M8 plain washer, M12 plain washer, Rubber Bellows, Bellows Top Bush and the Push Rod Top Bush



5. Remove the Blanking Plug from the Bellows Bottom Bush.



6. Insert the Under Deck through the centre hole making sure it's aligned as photos below



7. Fasten the Under Deck mechanism Using the 3 off M6 X 16 pan head screws and spring washers



8. Re-Fit the following items:
Push Rod Top Bush



9. Bellows Top Bush.



10. Bellows.



11. M12 plain washer. U-Piece Assy. M8 plain washer. M8 nyloc nut.

12. Make sure the mechanism is in this position before tightening the M5 x 8 hexagon screw onto the flat of the push rod.



13. U-Piece fixings.

14. Fix the U-Piece Assembly using U-Piece fixings make sure there is a plain washer both sides of the U-Piece Bush.



15. Completed.
Make sure the Searchlight pans and tilts correctly.

For Pedestal Models:

Mark out and drill through cabin roof using the template provided. Remove the cable gland in the base and replace with the blanking plug supplied. Secure the pedestal to the deck using appropriate fixings and then mount the searchlight to the pedestal and secure using the fixings provided. A drilled hole is also required in the deck to allow for the connection to an electrical supply. The searchlight is supplied with 3 metres of supply cable so that the installer can choose a suitable connection point.

5 - Electrical Installation

For safety purposes, only competent personnel should perform the electrical installation. All equipment should be installed to current Electrical Regulations and Standards.

In order to obtain the maximum light output from the searchlight, it is essential that the full operating voltage of the lamp fitted be applied to the lampholder contacts.

Method of Electrical Connection

- 1) Disconnect the supply before working on the electrical system;
- 2) The searchlight must be connected to a fused electrical supply, using suitably sized cable;
- 3) If the searchlight is located a considerable distance from the supply, provision must be made in the cable size in order to overcome the voltage drop.

- 4) Whenever possible cable terminations should be made below deck and with approved terminal devices;
- 5) If a spare auxiliary fuse or circuit breaker is not available, one of the correct type and rating should be fitted and connected to a positive supply. It is advisable to locate a bus bar or main connection and avoid any direct connection to the supply:

6 - Operating Instructions

This equipment is designed for use out of doors, in free air. Never place anything on, or cover the searchlight when in use as this may present a hazard.

The searchlight can be positioned using the elevation and base plate lockwheels. When in the desired position the lockwheels should be securely fastened to maintain position.

The beam of the searchlight can be adjusted to give a variety of beam types. Using the rear knob on the back panel, the desired beam can be achieved for any particular application. The beam will move through 'spot' to 'flood'. In order to fix the beam type; simply release the knob at the desired position.

The searchlight is also fitted with a breather at the rear of the searchlight which ensures a steady airflow to prevent any vacuum forming within the barrel.

This product should not be used for any purpose other than for which it was designed. Any modifications to the product should not be undertaken without consulting the manufacturer.

Setting to Work

Safe service in use necessitates the strict observance of the following precautions.

- Any article fabricated from quartz or glass is inherently fragile and care should therefore be taken, at all times, when handling lamps;
- Eye protection must be worn when handling lamps that have been removed from their packaging materials. The protective sleeve should not be removed from the lamp for safety reasons, as there is a remote possibility of the lamp shattering violently, especially if it is subjected to mechanical shock or vibration;
- Ensure that the power rating of the lamp to be fitted is suitable for the lamphouse and power supply equipment;
- Always isolate the equipment from the supply before inserting a lamp;
- Do not twist or bend the fused quartz bulb when fitting the lamp as mechanical stresses MUST be avoided;
- When inserting or removing a lamp, always hold it securely by its' base in order to prevent breakage between base and bulb;
- The lampholder must not exercise mechanical tensions on the lamp, neither during insertion or operation.
- For safety reasons, the lamp should be replaced once it has reached its' average life, and not later than 1.25 times the stated life. With continuing use the risk of the lamp exploding increases due to alterations within the quartz;
- Before the protective sleeve is removed, suitable protection must be worn i.e face mask and gloves with wrist protection;
- Never touch the quartz bulb with bare hands, as fingerprints will make the glass cloudy and cause a severe loss of light. This may also cause recrystallisation and thus weaken the bulb material. Should the bulb be inadvertently touched, remove fingerprints with methylated spirit and a clean, soft paper towel. The bulb should then be wiped with distilled water. NOTE: ALWAYS WEAR MASK AND GLOVES DURING CLEANING;
- All packaging and the protective sleeve must be retained for re-use. Whenever removing a lamp, the protective sleeve must always be used for safety reasons;

In all circumstances the lamp manufacturer's data should be referred to when dealing with lamps.

7- Fault Finding

All fault finding must be conducted by a competent person or qualified Electrical Engineer.

Please refer to the following table for the trouble-shooting of Xenon lamps.

Failure of Lamp to ignite

In the event of the lamp failing to light the following steps should be taken:

- 1) Check that the supply is connected to the input of the Ballast and check all connections as per the wiring diagram C25888 or C26207. On operation if the lamp does not light, switch off supply and check all fuses;

Any further tests to be carried out with regards to lamp failure must be conducted by a competent electrical engineer and should not be carried out in an explosive atmosphere.

- 1) Before a xenon lamp will ignite, the electrically insulated gas between the electrodes must be ionised. This is done by the ignitor which produces a high frequency voltage (up to 25,000 volts or higher). Switching the lamp on activates the ignitor. A cracking or hissing noise should be heard. The ignitor is housed within the rear of the searchlight barrel. If found to be faulty a new ignitor must be fitted.

8 - Maintenance and Servicing

In order to prolong the service life and performance of your searchlight, the following maintenance guidelines are recommended:

- Maintenance checks should be conducted before every voyage or at least every three months;
- Before checking, disconnect the equipment from the supply;
- Visually inspect the condition of the equipment;
- Any major or minor structural damage should be rectified immediately in order to reduce sympathetic wear;
- After inspection it may be necessary to clean the inside of the searchlight. The following procedure should be adhered to:
 - Remove the front bezel;
 - Clean the front glass inside and out using a proprietary glass cleaner or metal polish;
 - Clean the reflector if required;
 - Ensure that the lampholder is free from corrosion or other damage;
- It is advisable to check all seals and gaskets for signs of degradation. Renew if necessary;
- Upon completing all maintenance requirements the searchlight should be tested for full working order (approximately 20 minutes).

If in any doubt as to the correct servicing procedures to adopt please contact your distributor/agent or the manufacturer who will be able to advise the best course of action for your product.

Notes for Lamp Fitting/Removal for LX230 100w H.I.D Xenon

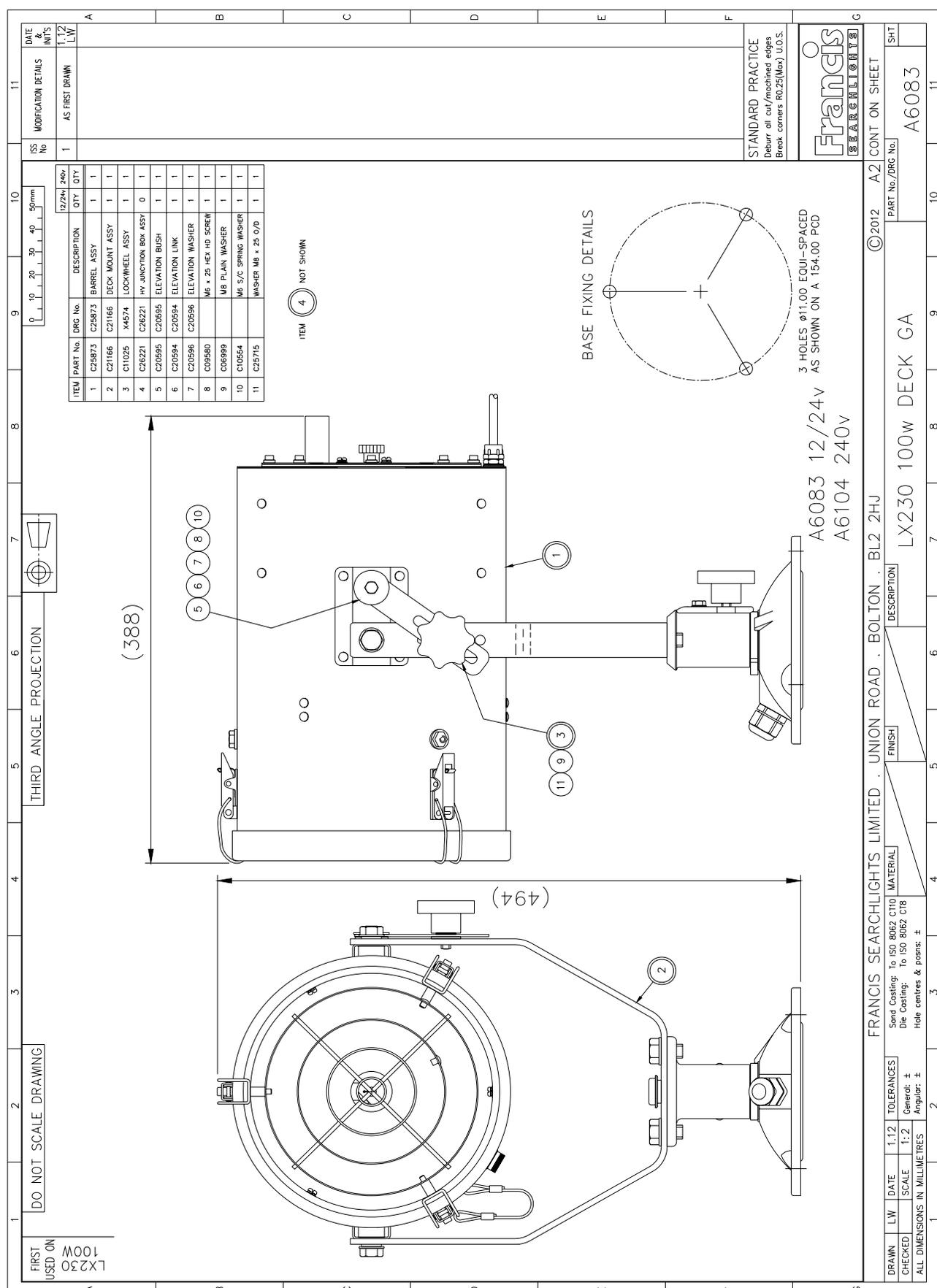
To fit lamp:

- Remove lamp from packaging, ensuring protective jacket is still in place;
- Remove rear panel from searchlight by unfastening the eight cap head screws. Care should be taken when removing the rear panel assembly so that no damage to the lamp is incurred;
- Loosen the two M3 screws on the lamp holder & disconnect the two lamp leads.
- Remove lamp from protective packaging.
- Replace the lamp by reconnecting the lamp leads & nipping up the M3 screws
- Replace the rear panel and fasten down the M4 cap head screws securely, ensuring a good seal is achieved;

Note: Retain jacket for future use.

9 – General Assembly and Wiring Diagrams

Drawing Number	Description
A6083	LX230 100w Deck G.A
A6084	LX230 100w Cabin G.A
A6085	LX230 100w Deck Ped G.A
A6086	LX230 100w Cabin Ped G.A
C26221	HV Junction Box Assembly (240v Only)
C25888	Wiring Diagram LV
C26207	Wiring Diagram HV



DO NOT SCALE DRAWING

THIRD ANGLE PROJECTION

0 10 20 30 40 50mm

11 10 9 8 7 6 5 4 3 2 1

DATE & UNITS

1.12 LW

MODIFICATION DETAILS

1 AS FIRST DRAWN

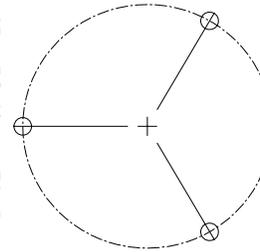
FIRST USED ON

LX230 100W

ITEM	PART No.	DRG No.	DESCRIPTION	QTY	12/24V 240V
1	C25873		BARREL ASSY	1	1
2	C21166		DECK MOUNT ASSY	1	1
3	C11025	X4574	LOCKWHEEL ASSY	1	1
4	C26221		HV JUNCTION BOX ASSY	0	1
5	C20595		ELEVATION BUSH	1	1
6	C20594		ELEVATION LINK	1	1
7	C20596		ELEVATION WASHER	1	1
8	C09580		M6 x 25 HEX HD SCREW	1	1
9	C06999		M6 PLAIN WASHER	1	1
10	C10564		M6 S/C SPRING WASHER	1	1
11	C25715		WASHER M6 x 25 5/2	1	1

ITEM (4) NOT SHOWN

BASE FIXING DETAILS



A6083 12/24V
A6104 240V

3 HOLES Ø11.00 EQUI-SPACED
AS SHOWN ON A 154.00 PCD

STANDARD PRACTICE

Deburr all cut/machined edges

Break corners R0.25(Max) U.O.S.



DRAWN	LW	DATE	1.12	TOLERANCES	General: ±	Angular: ±
CHECKED	SCALE	1:2		Surface Coating: To ISO 8062 CT10	Die Coating: To ISO 8062 CT8	Hole centres & points: ±
ALL DIMENSIONS IN MILLIMETRES						
FRANCIS SEARCHLIGHTS LIMITED · UNION ROAD · BOLTON · BL2 2HJ						
PART No./DRG No.			DESCRIPTION			
A6083			LX230 100W DECK GA			
PART No./DRG No.			FINISH			
A2			MATERIAL			
CONT ON SHEET			SHT			
© 2012			A6083			

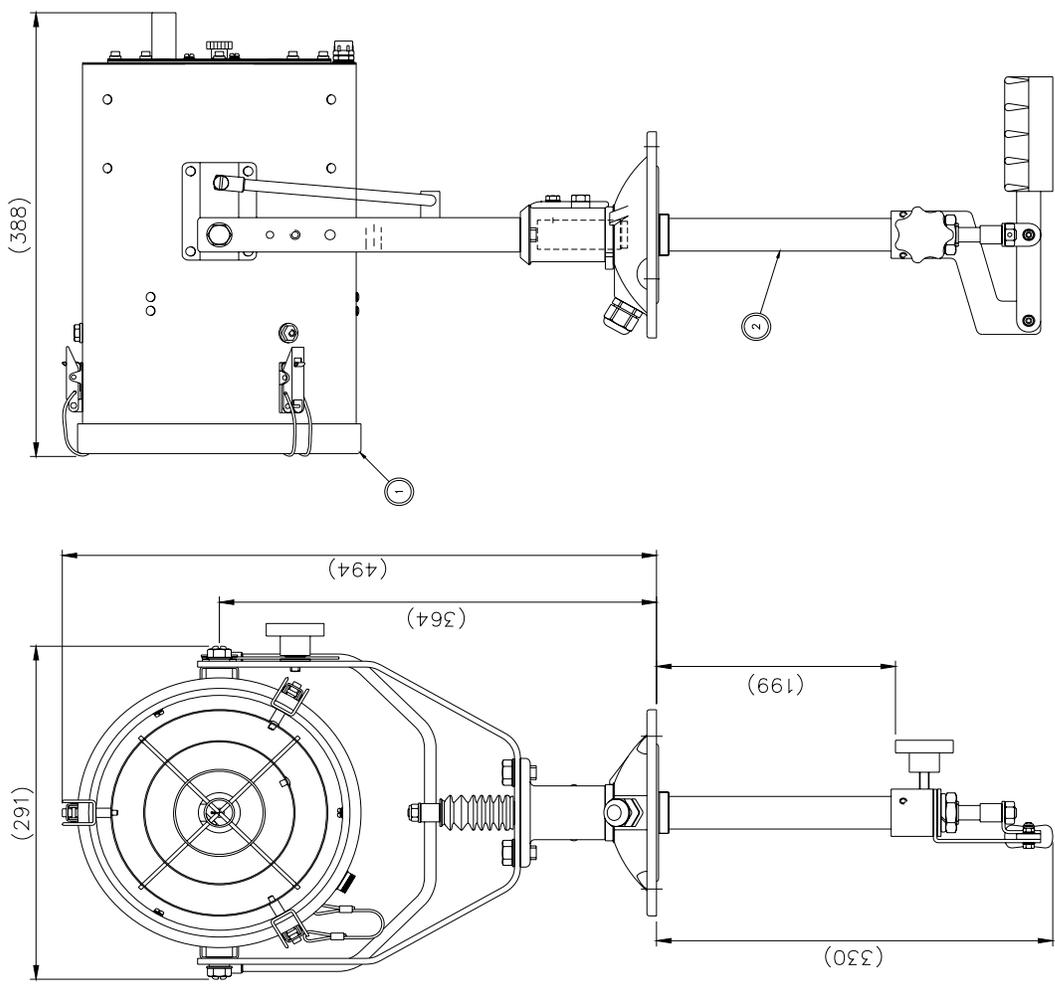
ISS No	1
MODIFICATION DETAILS	AS FIRST DRAWN

DATE	12/24
BY	240v

ITEM PART No.	DRG No.	DESCRIPTION	QTY	QTY
1	A6083	LX230D G.A.	1	1
2	C2168	TRAINER MOUNT CONVERSION	1	1
3	C20746	CABIN CONVERSION KIT	1	1
4	C26221	HV JUNCTION BOX ASSY	0	1

12/24	240v
QTY	QTY
1	1
1	1
1	1
0	1

FOR SCREW FIXINGS SEE (3)
ITEM (4) NOT SHOWN



DO NOT SCALE DRAWING

FIRST USED ON LX230C

STANDARD PRACTICE
Refer to cut/section notes
before commencing work.

Francis
SEARCHLIGHTS

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PART No/200: 161
A6084 1

FRANCIS SEARCHLIGHTS LIMITED, UNION ROAD, BOLTON, BL2 2HJ
LX230C 100W 12/24/240V G.A.

DRW	LW	DATE	2/12	TOLERANCES	Scale Conforms to ISO 8032 OTD
CHECKED	SCALE	1:2	General	to ISO 8032 C18	Dim Conforms to ISO 8032 C18
			Angular	±	Hole centres & points ±
ALL DIMENSIONS IN MILLIMETRES					

MATERIAL

FINISH

DESCRIPTION

FRANCIS SEARCHLIGHTS LIMITED . UNION ROAD . BOLTON . BL2 2HU

DESCRIPTION LX230DP 100w 12/24/240v G.A.

FINISH

MATERIAL

FRANCIS SEARCHLIGHTS LIMITED . UNION ROAD . BOLTON . BL2 2HU

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STANDARD PRACTICE
Debur all cut/machined edges.
Break corners R0.25(Min) U.O.S.

FRANCIS SEARCHLIGHTS LIMITED

PART No./REV. No. A6085 1

SHT 1

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DO NOT SCALE DRAWING

THIRD ANGLE PROJECTION

4 HOLES ϕ 12.50 EQUI-SPACED AS SHOWN ON A 190.00 PCD

BASE FIXING DETAILS

FOR SCREW FIXING KIT SEE (3)
ITEM (4) NOT SHOWN

ITEM	PART No.	DRG No.	DESCRIPTION	QTY	QTY
1	A6085	A6085	LX230DP G.A.	1	1
2	C20719	C20719	PEDESTAL ASSY	1	1
3	C20747	C20747	DECK PED CONVERSION KIT	1	1
4	C26221	C26221	HV JUNCTION BOX ASSY	0	1

ITEM	PART No.	DRG No.	DESCRIPTION	QTY	QTY
1	A6085	A6085	LX230DP G.A.	1	1
2	C20719	C20719	PEDESTAL ASSY	1	1
3	C20747	C20747	DECK PED CONVERSION KIT	1	1
4	C26221	C26221	HV JUNCTION BOX ASSY	0	1

16

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(388)

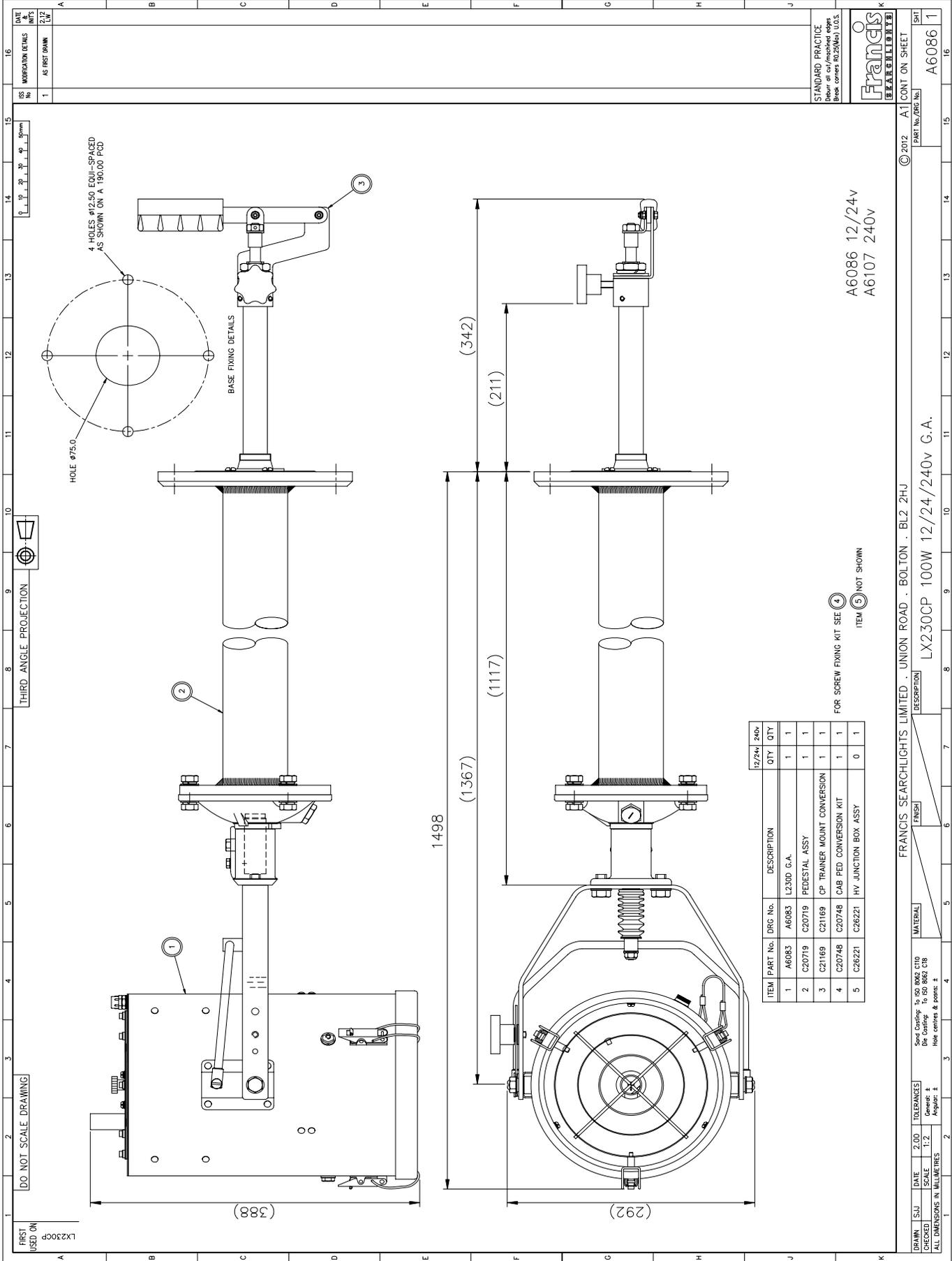
(1498)

(1368)

(1117)

(309)

A6085 12/24v
A6106 240v



DATE	NO.	DESCRIPTION
12/17	1	AS FIRST DRAWN

STANDARD PRACTICE
 Debur all cut/machined edges
 Break corners R0.25(Min) U.O.S.



© 2012	A1	CONT ON SHEET
PART No./DRE No.	A6086 1	
SHT	1	

ITEM	PART No.	DRG No.	DESCRIPTION	QTY	12/24v	240v
1	A6083	L2300	G.A.	1	1	
2	C20719		PEDESTAL ASSY	1	1	
3	C21169		CP TRAINER MOUNT CONVERSION	1	1	
4	C20748		CAB PED CONVERSION KIT	1	1	
5	C26221		HV JUNCTION BOX ASSY	0	1	

FOR SCREW FIXING KIT SEE (4)
 ITEM (5) NOT SHOWN

A6086 12/24V
 A6107 240V

FRANCIS SEARCHLIGHTS LIMITED · UNION ROAD · BOLTON · BL2 2HU
 LX230CP 100W 12/24/240v G.A.

DRAWN	SJU	DATE	2.00	TOLERANCES
CHECKED		SCALE	1:2	General: ±
				Angular: ±
ALL DIMENSIONS IN MILLIMETRES				

Send Coatings to ISO 8062 C110
 Die Coatings to ISO 8062 C18
 Hole centres & posns: ±

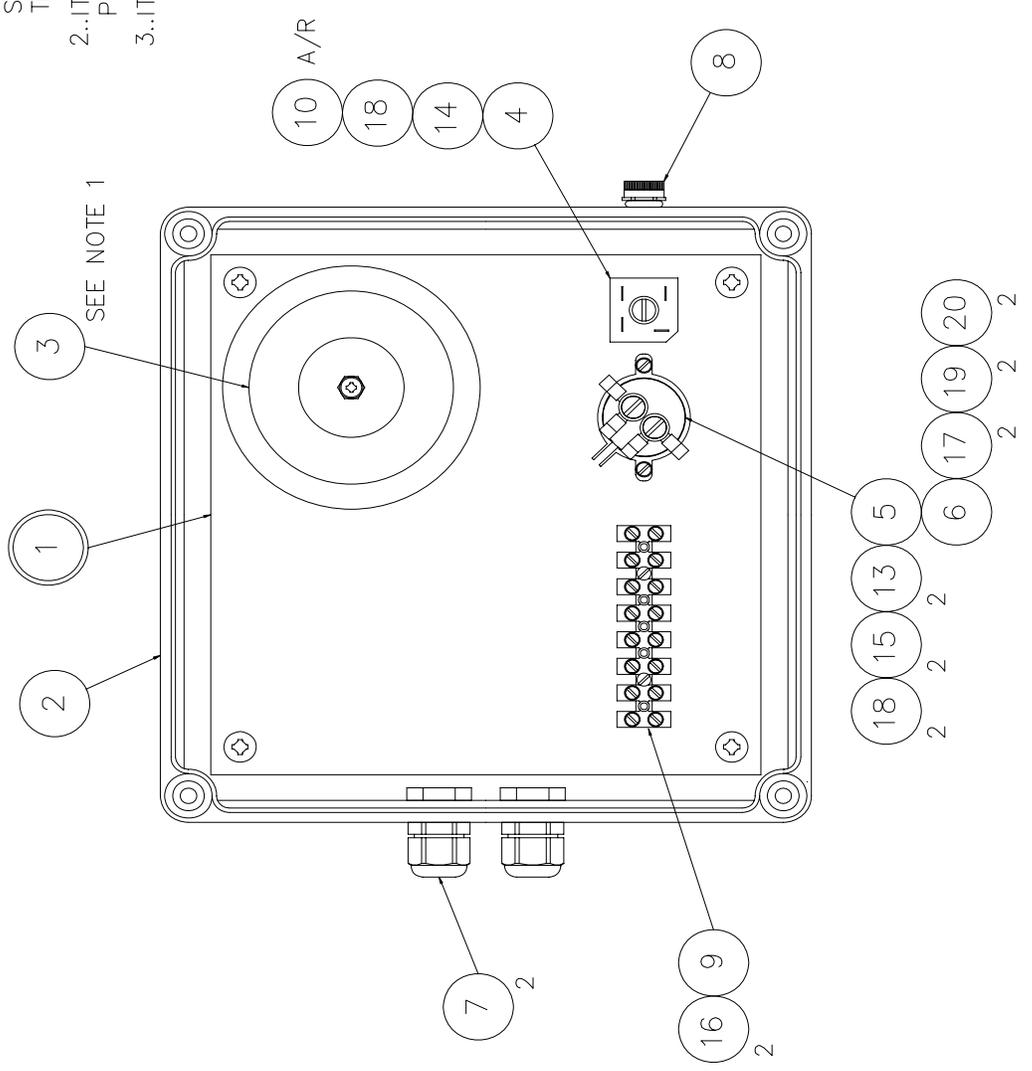
FINISH DESCRIPTION

NOTE

- 1.. USE SCREW & FIXINGS PROVIDED
SCREW NUT FULLY ONTO SCREW
SO SCREW DOES NOT PROTRUDE
THROUGH CHASSI PLATE
- 2..ITEMS 11 & 12 NOT SHOWN
POSITION CENTRAL ON LID
- 3..ITEMS 21, 22 & 23 NOT SHOWN

ITEM	PART No.	DRG No.	DESCRIPTION	QTY
1	C26218	C26218	CHASSIS PLATE ASSY	1
2	C26217	C26217	ENCLOSURE	1
3	C24813		TRANSFORMER	1
4	C24072		RECTIFIER	1
5	C24823		CAPACITOR	1
6	C25946		CAPACITOR CLIP	1
7	C10158		GLAND	2
8	C22268		BREATHER ASSY	1
9	C15133		TERMINAL STRIP 32A	1 (8 WAY)
10	C14232		HEAT-SINK COMPOUND	A/R
11	C21484		LABEL DANGER 230V	1
12	C22036		LABEL ISOLATE SUPPLY	1
13	C14685		RING TAG	4
14	C10620		SCREW M5 x 16 PN HD	1
15	C10206		SCREW M5 x 12 PN HD	2
16	C10203		SCREW M3 x 16 PN HD	2
17	C10131		SCREW M3 x 10 PN HD	2
18	C08392		WASHER M5 PLAIN	3
19	C08028		WASHER M3 PLAIN	2
20	C10747		WASHER M3 5/8 SPRING	2
21	C13572		CABLE 1.5mm RED	A/R
22	C13873		CABLE 1.5mm BLACK	A/R
23	C15112		CABLE 1.5mm G/Y	A/R

BOX DIM'N 180 x 180 x 130



11 10 9 8 7 6 5 4 3 2 1

ISS No	MODIFICATION DETAILS	DATE & INTS
1	AS FIRST DRAWN	1.12 LW
2	RESISTOR & THERMO SWITCH ADDED (EC15-56)	3.14 LW

DO NOT SCALE DRAWING

THIRD ANGLE PROJECTION



12/24v SUPPLY

SEARCHLIGHT HEAD

25W 10R

STAT 5-15°C

CONNECTOR

TERMINAL BLOCK

BROWN BLUE

BLACK WHITE

CLIP THIS SIDE

H.I.D LAMP BALLEST

100W

BALLAST

IGNITOR

CONNECTORS

LAMP

STANDARD PRACTICE

Debur all cut/machined edges
Break corners R0.25(Max) U.O.S.

Francis SEARCHLIGHTS

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PART No./DRG No. LX230 12/24v WIRING SCHEMATIC

SHT C25888 1

DESCRIPTION LX230 12/24v WIRING SCHEMATIC (100W H1 XENON H.I.D UNIT)

FINISH

MATERIAL

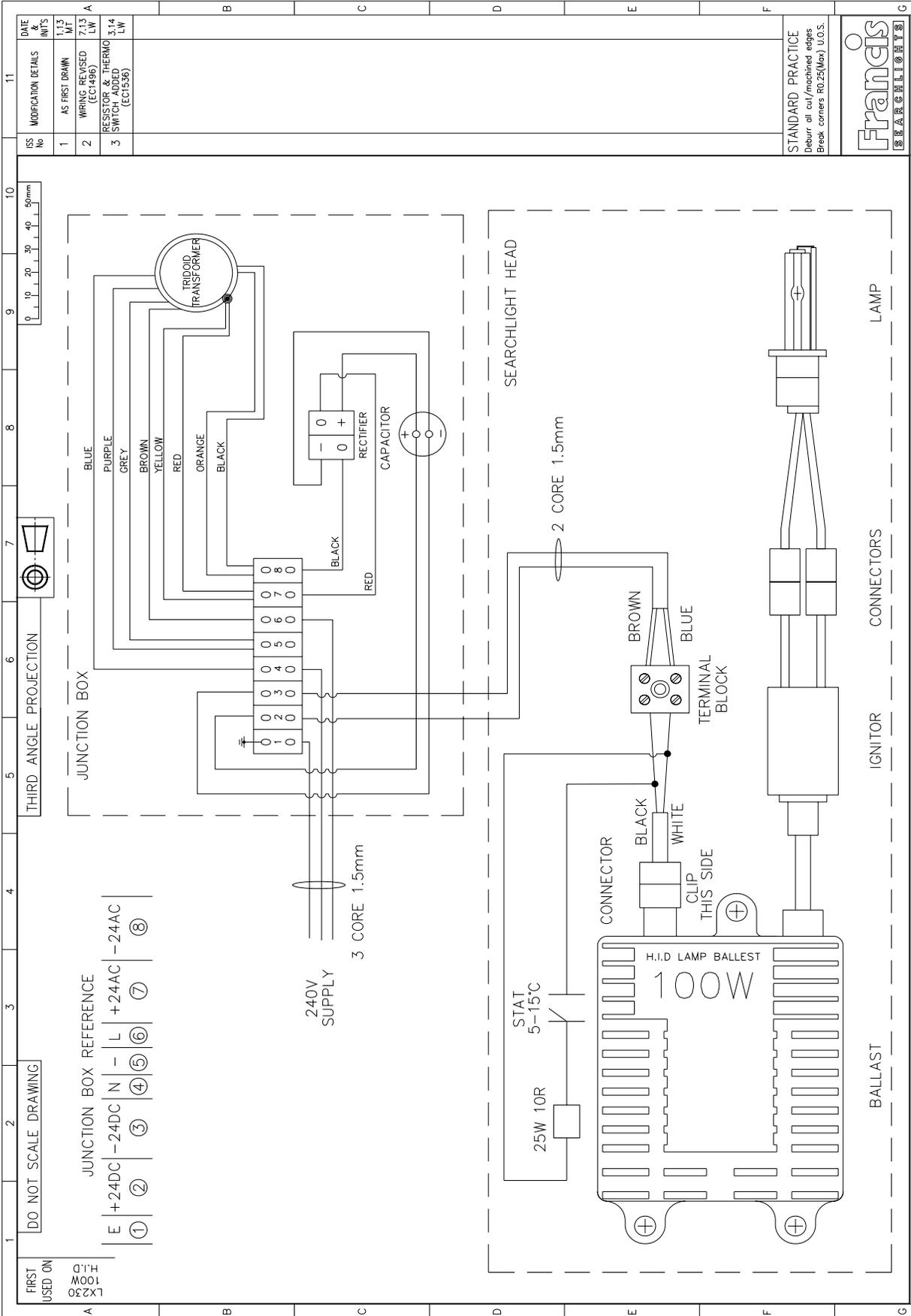
Send Coasting: To ISO 8862 CT10
Die Coasting: To ISO 8862 C18
Hole centres & posns: ±

1.12 TOLERANCES
General: ±
Angular: ±

SCALE 1:1
ALL DIMENSIONS IN MILLIMETRES

1 2 3 4 5 6 7 8 9 10 11

FIRST USED ON
LX230
H.I.D
100W



1	2	3	4	5	6	7	8	9	10	11	
DO NOT SCALE DRAWING		JUNCTION BOX REFERENCE		THIRD ANGLE PROJECTION		JUNCTION BOX		SEARCHLIGHT HEAD		STANDARD PRACTICE	
FIRST USED ON		E +24DC -24DC N - L +24AC -24AC		0 10 20 30 40 50mm		TRIDIOD TRANSFORMER		25W 10R		Debur all cut/machined edges	
03		① ② ③ ④ ⑤ ⑥ ⑦ ⑧		0 10 20 30 40 50mm		RECTIFIER		STAT 5-15°C		Break corners R0.25(Max) U.O.S.	
02		① ② ③ ④ ⑤ ⑥ ⑦ ⑧		0 10 20 30 40 50mm		CAPACITOR		H.I.D. LAMP BALLEST		© 2012 A2 CONT. ON SHEET	
01		① ② ③ ④ ⑤ ⑥ ⑦ ⑧		0 10 20 30 40 50mm		LAMP		100W		FRANCIS SEARCHLIGHTS LIMITED · UNION ROAD · BOLTON · BL2 2HJ	
X		① ② ③ ④ ⑤ ⑥ ⑦ ⑧		0 10 20 30 40 50mm		CONNECTORS		CLIP THIS SIDE		Sand Casting: To ISO 8062 CT10	
I		① ② ③ ④ ⑤ ⑥ ⑦ ⑧		0 10 20 30 40 50mm		IGNITOR		TERMINAL BLOCK		Die Casting: To ISO 8062 CT8	
A		① ② ③ ④ ⑤ ⑥ ⑦ ⑧		0 10 20 30 40 50mm		BALLAST		CONNECTORS		Hole centres & posns: ±	
B		① ② ③ ④ ⑤ ⑥ ⑦ ⑧		0 10 20 30 40 50mm		SEARCHLIGHT HEAD		CONNECTORS		ALL DIMENSIONS IN MILLIMETRES	
C		① ② ③ ④ ⑤ ⑥ ⑦ ⑧		0 10 20 30 40 50mm		SEARCHLIGHT HEAD		CONNECTORS		DRAWN MT DATE 1.13 TOLERANCES	
D		① ② ③ ④ ⑤ ⑥ ⑦ ⑧		0 10 20 30 40 50mm		SEARCHLIGHT HEAD		CONNECTORS		CHECKED SCALE 1:1 Gener: ±	
E		① ② ③ ④ ⑤ ⑥ ⑦ ⑧		0 10 20 30 40 50mm		SEARCHLIGHT HEAD		CONNECTORS		Angular: ±	
F		① ② ③ ④ ⑤ ⑥ ⑦ ⑧		0 10 20 30 40 50mm		SEARCHLIGHT HEAD		CONNECTORS		FINISH	
G		① ② ③ ④ ⑤ ⑥ ⑦ ⑧		0 10 20 30 40 50mm		SEARCHLIGHT HEAD		CONNECTORS		MATERIAL	
A		① ② ③ ④ ⑤ ⑥ ⑦ ⑧		0 10 20 30 40 50mm		SEARCHLIGHT HEAD		CONNECTORS		LX230 240V WIRING SCHEMATIC	
B		① ② ③ ④ ⑤ ⑥ ⑦ ⑧		0 10 20 30 40 50mm		SEARCHLIGHT HEAD		CONNECTORS		(100W H1 XENON H.I.D UNIT)	
C		① ② ③ ④ ⑤ ⑥ ⑦ ⑧		0 10 20 30 40 50mm		SEARCHLIGHT HEAD		CONNECTORS		PART No./DRG No.	
D		① ② ③ ④ ⑤ ⑥ ⑦ ⑧		0 10 20 30 40 50mm		SEARCHLIGHT HEAD		CONNECTORS		C26207	
E		① ② ③ ④ ⑤ ⑥ ⑦ ⑧		0 10 20 30 40 50mm		SEARCHLIGHT HEAD		CONNECTORS		SHT	
F		① ② ③ ④ ⑤ ⑥ ⑦ ⑧		0 10 20 30 40 50mm		SEARCHLIGHT HEAD		CONNECTORS		1	
G		① ② ③ ④ ⑤ ⑥ ⑦ ⑧		0 10 20 30 40 50mm		SEARCHLIGHT HEAD		CONNECTORS		1	



10 – Spare Parts List

The following spare parts can be ordered directly from the manufacturer:

Part Number	Description
D25858	100w Xenon Lamp
C25857-01	100w Ballast & Ignitor Unit
C08865-00	Front glass
C12888-00	Front Glass Infra Red (Optional)
C08835-00	Front glass gasket
C25859-00	Rear Plate Gasket
C22268-01	Breather Assembly
C15929-00	Reflector
C26404-00	Resistor (Heater)
C24889-00	Thermal Switch

In order to prolong the life and performance of your product, we recommend that you only specify Francis Searchlights spare parts. This will ensure that any warranties on your equipment will not be invalidated.

When ordering spare parts please contact the Sales Department at Francis Searchlights Limited. Please quote searchlight model and serial number at all times. This will enable a fast response to your spares' requirements.