PLASSON®
Livestock

CONTROL PAN LIGHTING SYSTEM
Installation Guide

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Global Presence - Local Commitment

Feeding Drinking Climate Housing

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1. Safety

This chapter contains an overview of the pan feeder system safety concerns and includes:

- Safety Overview
- Safety Conventions
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1.1 Safety Overview

Plasson's pan feeder system has been designed to meet all known safety requirements. During normal operation, the pan feeder system presents no hazards to the operator or other personnel. However, in certain circumstances, the following potential hazards to operators and maintenance team personnel exist:

- Electrical shock (220 VAC)
- Mechanical hazard (moving parts, pinch points, etc.)
- Overhead hazard
- Heavy object hazard

The information and instructions presented in this document are intended to help personnel work with the pan feeder system in a safe, effective, and efficient manner.

1.2 Safety Conventions

Safety information is presented as follows:

⚠ CAUTION

Caution is the signal word used to indicate a potentially hazardous situation which, if not avoided, could result in minor or moderate injury. It may also be used alert against unsafe practices.

⚠ WARNING

Warning is the signal word used to indicate a potentially hazardous situation which, if not avoided, could result in death or severe injury.

⚠ DANGER

Danger is the signal word used to indicate an imminently hazardous situation which, if not avoided, will result in death or severe injury. This signal word is limited to the most extreme situations.

1.3 Cautions and Warnings

The following instructions and guidelines are necessary to ensure safe operation and long system life. Before performing any work on the system, become familiar with the following safety sections:

1.3.1 General Safety Cautions

⚠ CAUTION

- Read the installation and operation instructions prior to installing or before servicing the system.
- Before working on the system, read all safety standards and instructions to avoid injury or damage to equipment or property.
- Electrical connections must be serviced by a qualified electrician, using certified components only, and according to local regulations and standards.
- Shut off the system before conducting system maintenance.
- Proper operation of the system is not guaranteed if unauthorized parts are used.
- In case of unusual or irregular noise or vibration, it is necessary to switch off the system.

1.3.2 General Warnings

⚠ WARNING

- **Hazardous Voltage:** Contact with electrical equipment can cause electric shock or burn if the power supply is turned on. Before starting any work on electrical equipment, disconnect the machine from the power socket.

1.4 Storage, Transport, and Installation

⚠ CAUTION

Installation safety:

- The operator is responsible for the equipment and must not allow unauthorized persons to use the system or be in its vicinity.
- Whenever you handle or repair the equipment, turn off the power supply first.
- Maintenance and repairs must be carried out by qualified technicians authorized by Plasson.
- Always use Plasson components when replacing any defective components.
- All electrical parts must be grounded and installed by a qualified electrician.
- Pay close attention to the safety symbols on the components, as carelessness can lead to serious injury and even death.

⚠ CAUTION

Storage safety:

- Ambient temperature must be between 5°C and 60°C.
- System must not be exposed to humidity, rain, condensation, dust, or direct sunlight during storage.

Transport safety:

- Move the system using appropriate lifting equipment.
- Avoid heavy vibration during transport.

1.5 EMC Safety

All pan feeder system components comply with IEC EN 61000-6-3, the emission standard for residential, commercial, and light industrial environments.

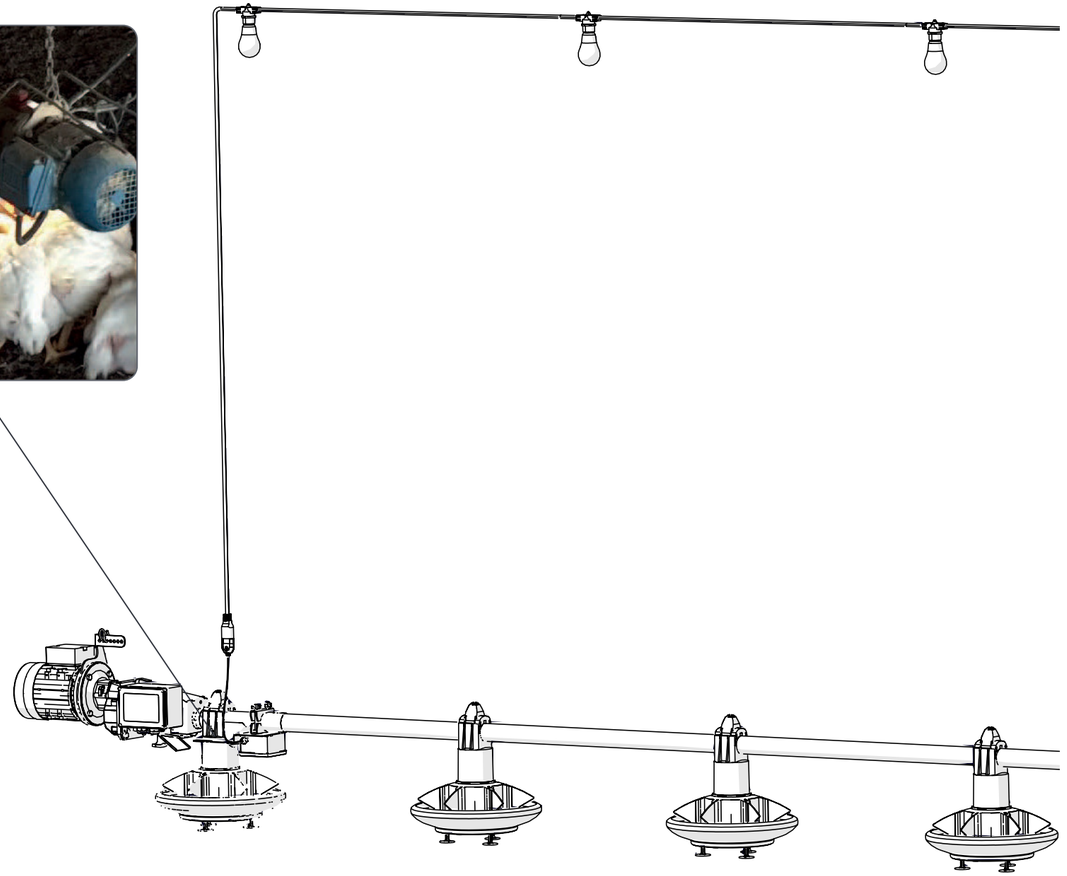
2. Introduction

The control pan lighting system functions as follows:

1. *A bright light attracts the birds to the control pan, increasing feeding at the pan*

2. *The control pan is emptied of feed quicker than the other pans on the line*

3. *The motor starts to operate as soon as the feed level in the control pan is lower than the level sensor*



4. *Fresh feed is delivered to all pans on the line more frequently*

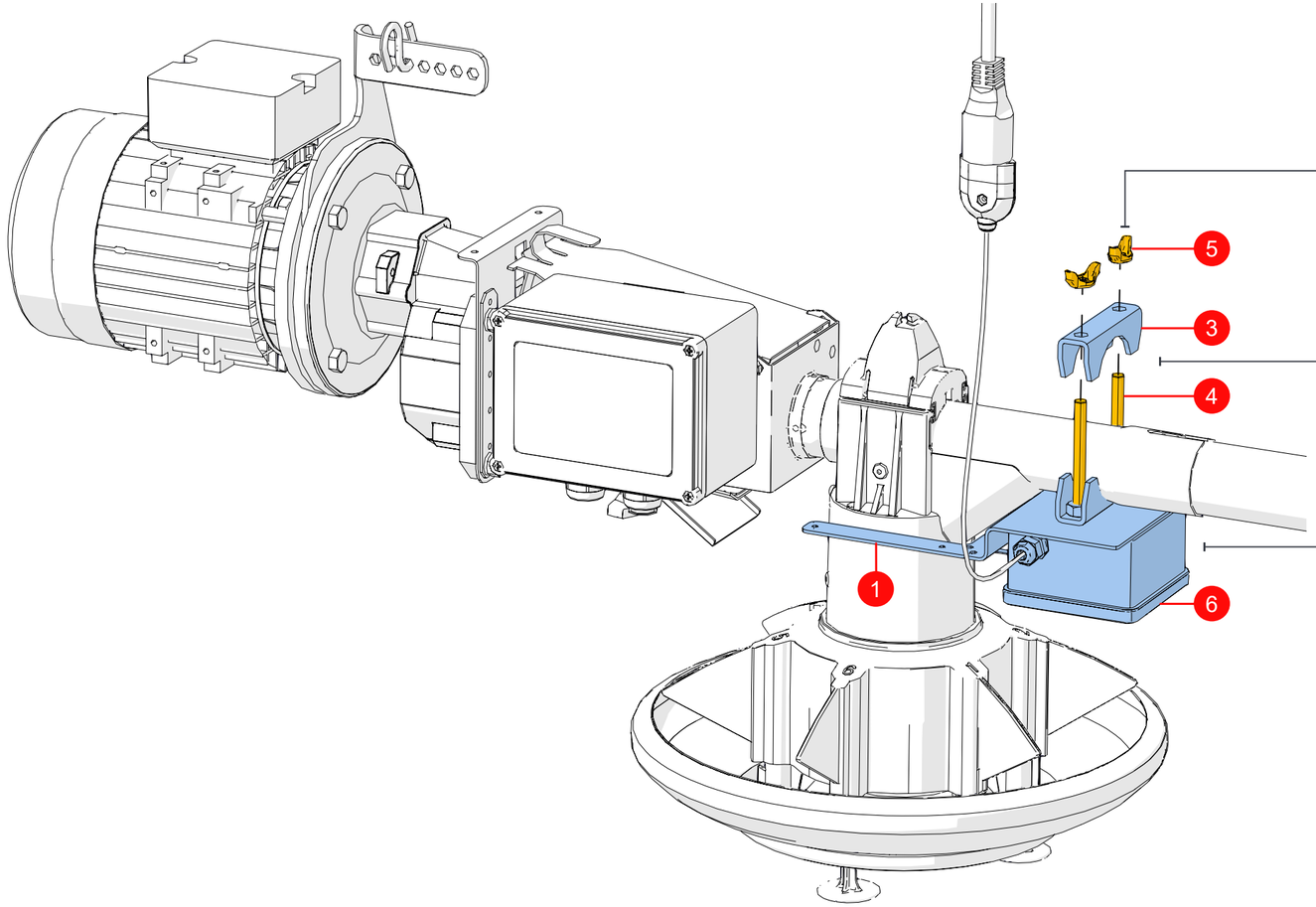
NOTE:

The control pan lighting system schedule can be configured in one of the following ways:

1. Turns on/off together with the house lights. See Wiring to House Lights.
2. Remains on continuously. See Wiring to Electrical Cabinet.
3. Turns off a short time after the house lights turn off. See Wiring to Electrical Cabinet.
4. Turns off on a preset schedule (when connected to the house controller).

3. Assembly Instructions

Perform the following steps to install the control pan lighting system:



1. *Release the two butterfly nuts (5) and remove the upper section of the pipe clamp (3)*

3. *Insert the upper section of the pipe clamp onto the screws (4) and tighten the butterfly nuts*

2. *Place the power box (6) and LED lights (1) above the control pan*

4. Wiring Instructions

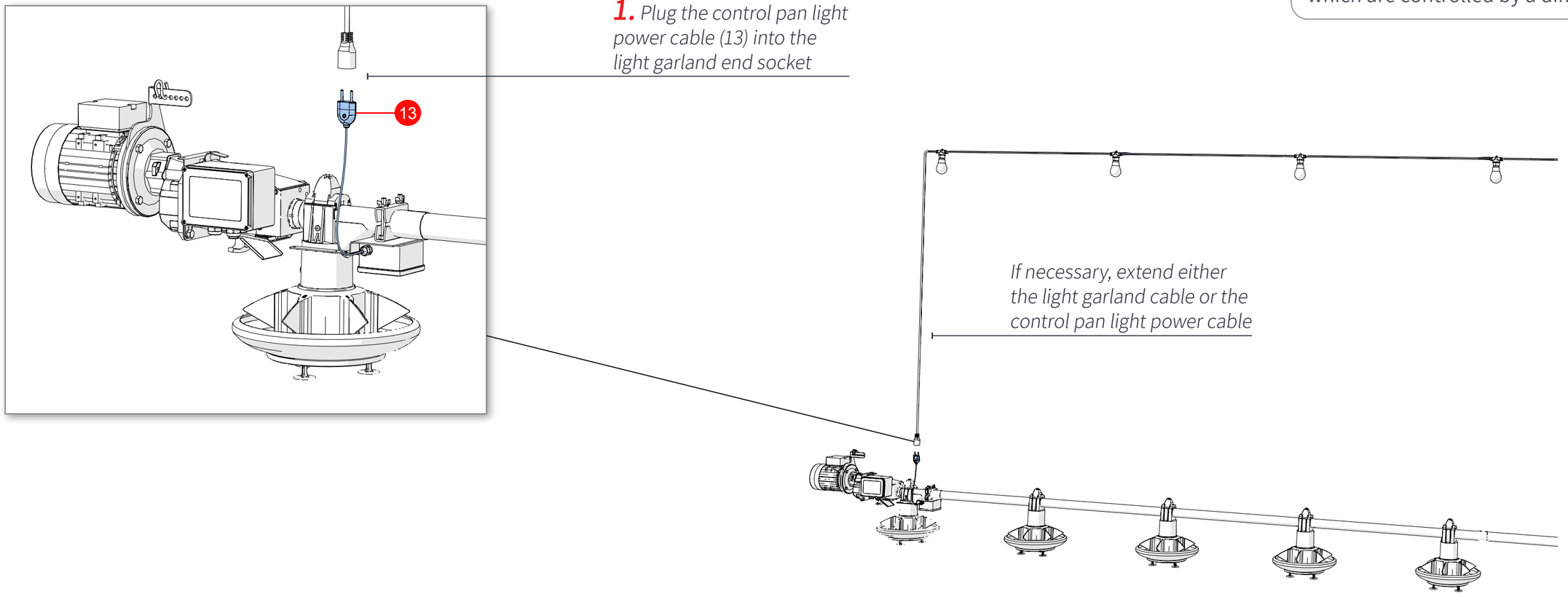
This section reviews wiring the control pan lighting system and includes:

- Wiring to House Lights
- Wiring to Electrical Cabinet

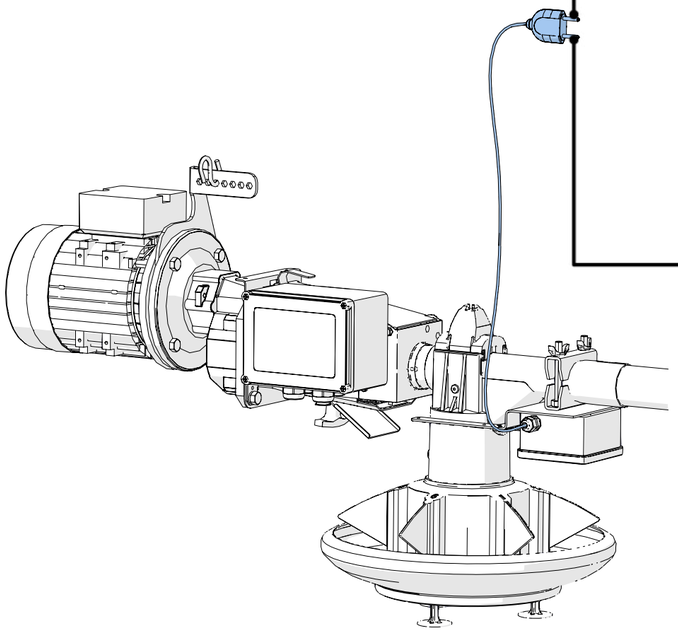
4.1 Wiring to House Lights

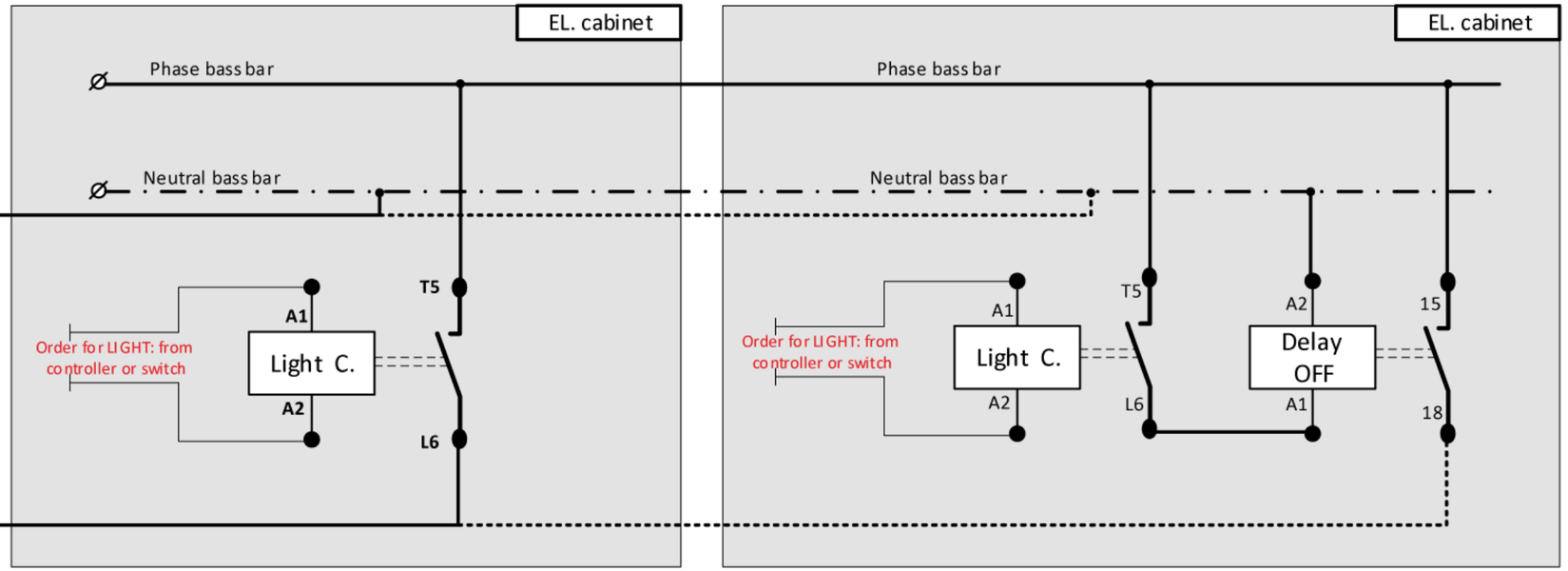
Perform the following step to wire the control pan lighting system to the house lights:

NOTE:
The control pan lighting system can't be connected to lighting garlands which are controlled by a dimmer.



4.2 Wiring to Electrical Cabinet





The diagram above illustrates wiring of the control pan lighting system directly to the light relay in the electrical cabinet. This option can be used if the light garlands are connected to a dimmer.

The diagram above illustrates wiring of the control pan lighting system to the light relay in the electrical cabinet with the addition of an OFF delay timer. This enables extending the time the control pan lighting system remains on after the house lights turn off.

NOTE:
The control pan lighting system can also be wired to a free relay or timer in the house controller. This enables independent control of the system's on/off times.

5. Components List

The following table displays the list of parts included with the control pan lighting system:

ID#	P/N	Description	QTY
1	B2701377	CONTROL PAN SYSTEM LIGHTNING SUPPORT PAINTED	1
2	2382045	CLAMP 10MM W/RUBBER	2
3	2310511	ANTI/PERCH CLAMP SUPPORT	2
4	2310516	HEXAGONAL HEAD SCREW TOTAL THREAD M8X80 (8.8) ZINC.	2
5	2310267	BUTTERFLY NUT STAMPED M6. ZINC.	2
6	B2701376	PLASTIC CONECTION BOX 80X80X50 FOR CONTROL PAN LIGHTNING SYSTEM	1
7	B2701374	LED TAPE 100MM 12V IP65 WHITE ILUMINATI	2
8	2360160	PLASTIC BUSHING 1/4'' GREY	1
9	29999982817	ENCAPSULATED POWER SUPPLY 110/220VCA 12VCC 3W W/ CABLE	1
10	2310053	HEXAGONAL NUT M8 ZINC.	2
11	2310051	ELECTRIC PLUG (MALE)	1
12	2310779	CLAMP T18R	2
13	2360101	ELECTRIC CABLE 2 X 0.5MM FLEXIBLE	0.6
14	2360420	THERMOSHRINK PIPE OD 3.2MM (1)	0.2

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Plasson Livestock
Maagan Michael, D.N. Menashe
3780500 Israel

info@plassonlivestock.com

+972-73-2413001

https://www.plassonlivestock.com

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