

Manual for use and maintenance

RLS Light Sensor



Light Sensor

Climate Controller

1 Light Sensor

P/N: RLS-1/928-01-00001



To install the unit:

1. Mount the sensor in place.
2. On the female plug, remove the retaining screw from the protective cover (Figure 1).

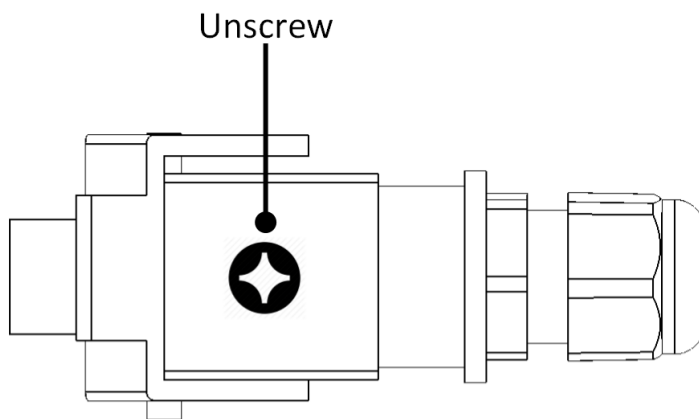


Figure 1: Protective Cover

3. Pull out the connector from the protective cover (Figure 2).

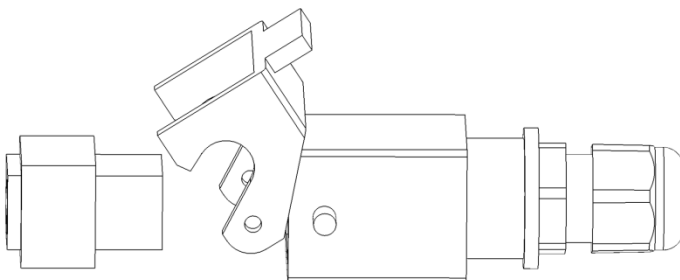


Figure 2: Remove the Connector

4. Place the cable through the protective cover (Figure 3).

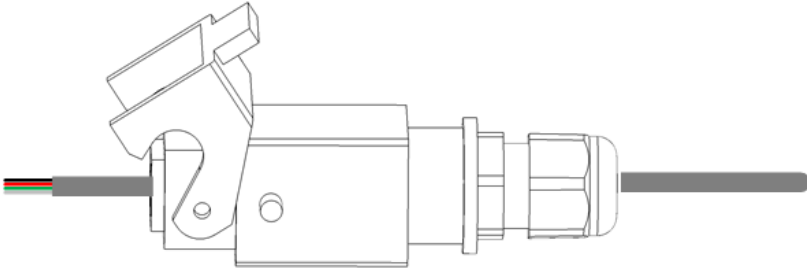


Figure 3: Threading the Cable

5. On the top of the connector are numbers (Figure 4). Each wire must be attached to the corresponding port (Table 1). Connect the four wires to the connector Figure 5.

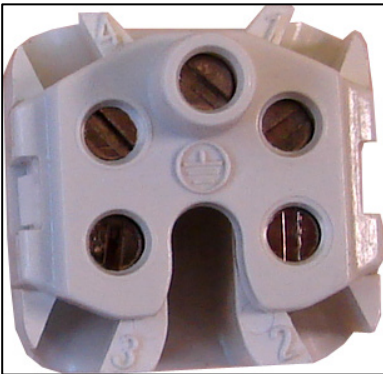


Figure 4: Connector Numbers

Table 1: Connector Port Functions

Port Number	Function	Wire Color
1	12 V +	Red
2	Signal	Black
3	Shield	Shield wire

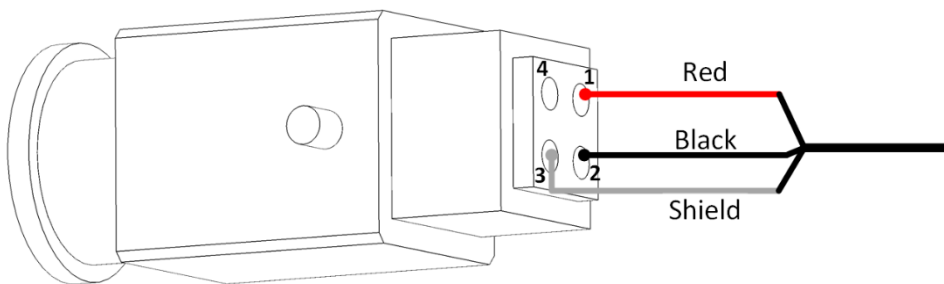


Figure 5: Wired Connector

6. Place the wired connector back into the protective cover and place the retaining screw in place (Figure 6).

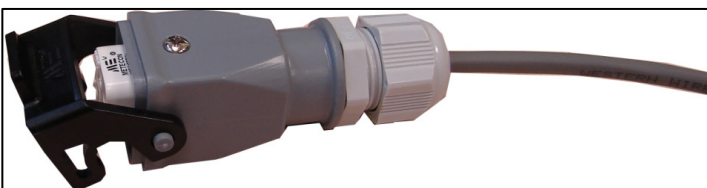


Figure 6: Wired Unit in Protective Cover

2 Platinum

When used with a Platinum controllers, Munters' Light Sensor turns off all lights when sufficient outside lights exists. Installing and employing this device reduces lighting costs.

- [Wiring the Analog Input](#)
- [Configuring the Sensor](#)
- [Notes](#)

2.1 [Wiring the Analog Input](#)

- [Platinum / Platinum XL](#)
- [Platinum Pro](#)

2.1.1 PLATINUM / PLATINUM XL

1. Connect the sensor to the analog card according to the color code on the PCB.
2. Move the T5 or T6 jumper to the 4 -20 position.

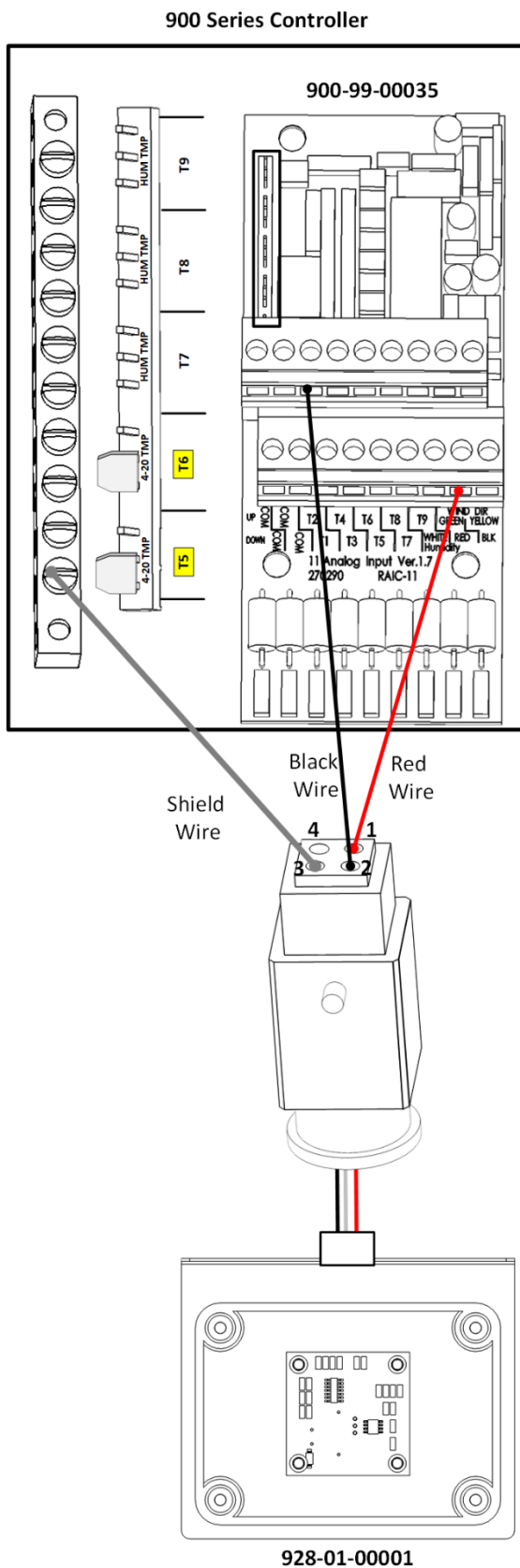


Figure 7: RLS-1 to Platinum / Platinum XL

2.1.2 PLATINUM PRO

- Connect black wire to IN1 to IN4
- Connect red to +12V
- Set Dipswitch 1 to on.

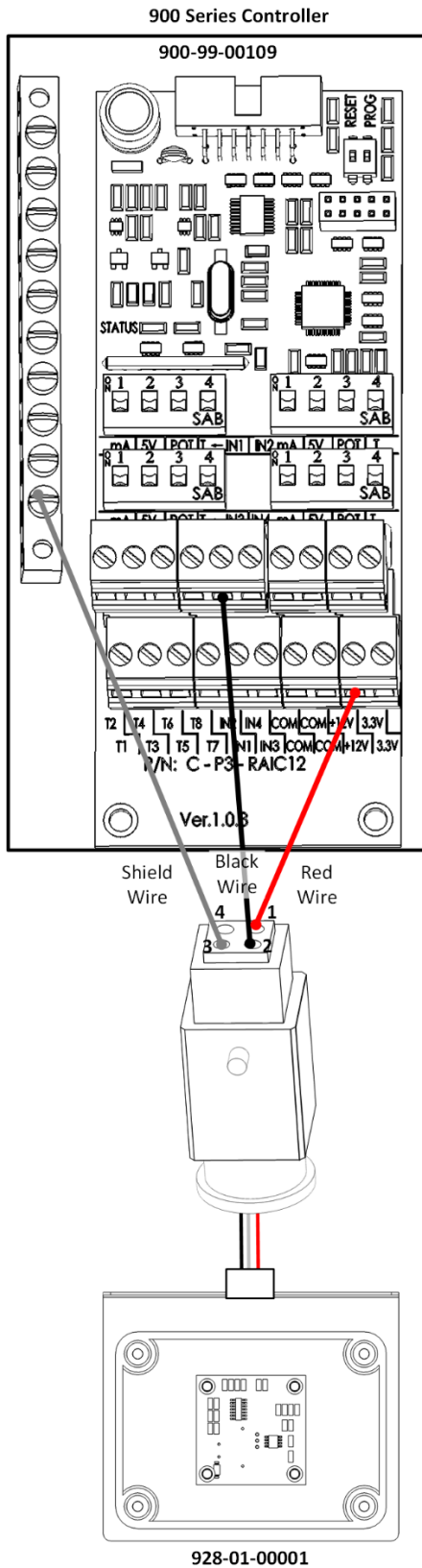


Figure 8: RLS-1 to Platinum Pro

2.2 Configuring the Sensor

1. On the Platinum screen, go to Menu > Install > Analog Sensors.
2. Define one sensor as a light sensor.
3. Go to Device > Light.
4. Press Help, highlight Set, and press Enter.
5. Scroll down to Light Sensor Active and set to Yes.
6. Place the sensor in the required location.
7. Go to Service > Light Sensor Calibration.
8. When the outside light is bright enough, press Enter.

The Light Sensor is configured.

2.3 Notes

- The amount of light measured is **relative**. This means that you can install the Light Sensor where ever you want, as long as that spot receives the required amount of light.
- Wipe the unit with a soft cloth once a week or after any weather event (for example a dust storm).
- The unit comes with mounting brackets.

3 Trio

- Wiring
- Light Settings

3.1 Wiring

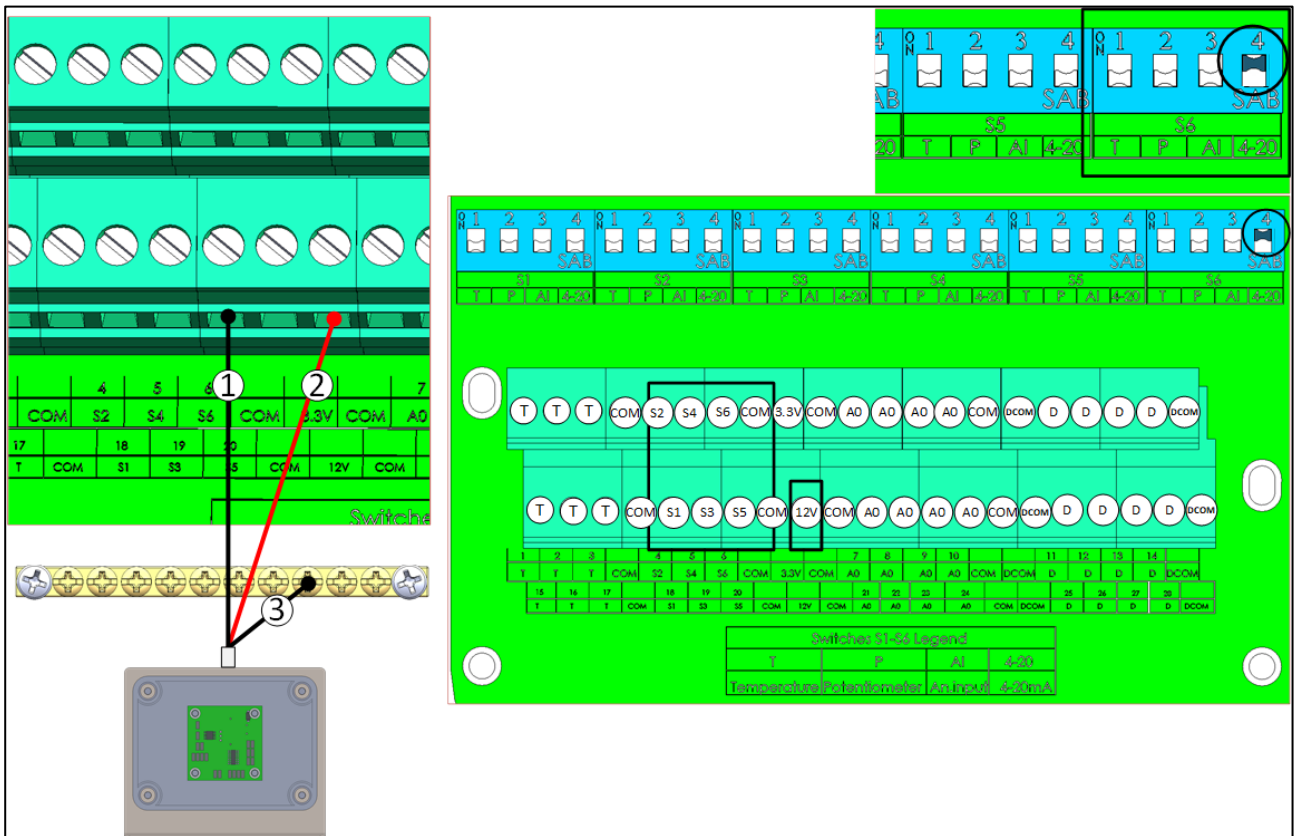


Figure 9: Light Sensor Wiring

Number	Function
1	S port (black wire)
2	12V (red wire)
3	Shield wire

- Connect each RLS sensor to a:
 - S port. In the corresponding dipswitch, raise dipswitch 4 (4 -20 mA).
 - 12VDC port.
 - Grounding strip!

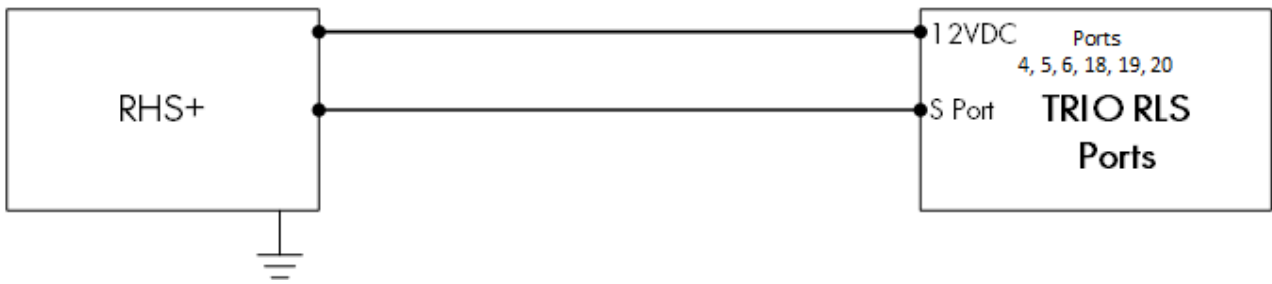
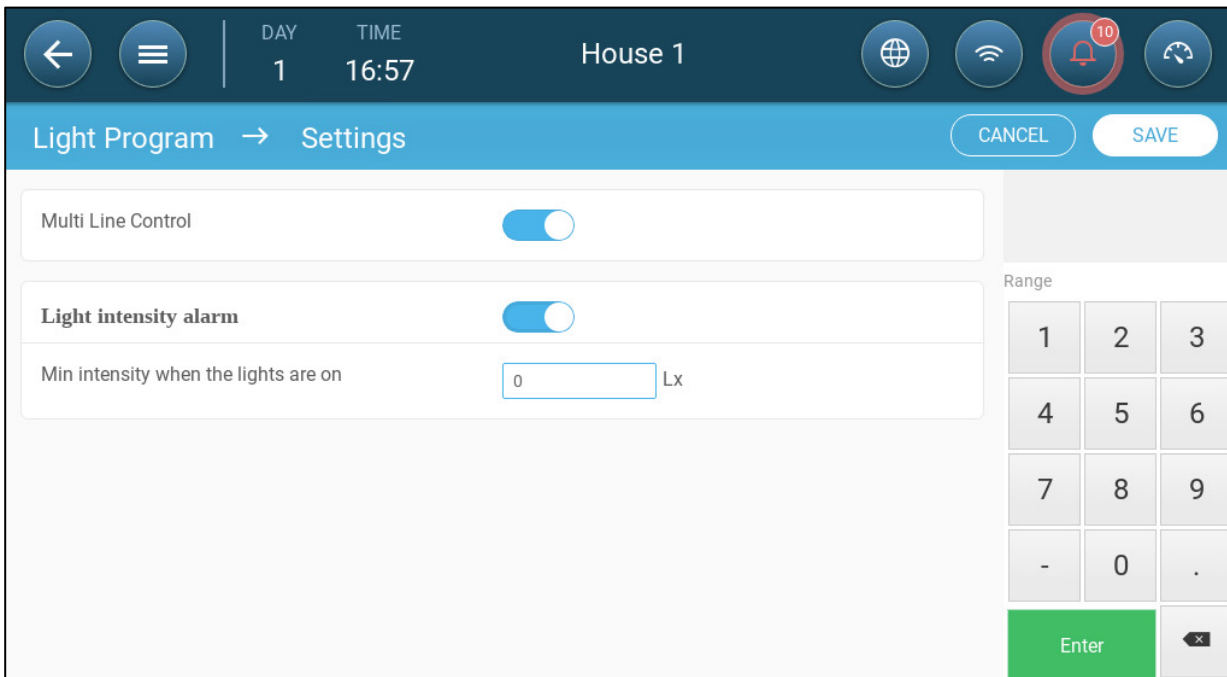


Figure 10: Light Sensor Schematic

3.2 Light Settings

TRIO can generate an alarm when lights go below a user-defined level.

1. On the Trio screen, go to System > Devices & Sensors.
2. Define one sensor as a light sensor.
3. Control > Light > Settings and enable Light intensity alarm.



4. Define the minimum light intensity that lights must achieve. Below this level, TRIO generates an alarm.

4 Warranty

Warranty and technical assistance

Munters products are designed and built to provide reliable and satisfactory performance but cannot be guaranteed free of faults; although they are reliable products they can develop unforeseeable defects and the user must take this into account and arrange adequate emergency or alarm systems if failure to operate could cause damage to the articles for which the Munters plant was required: if this is not done, the user is fully responsible for the damage which they could suffer.

Munters extends this limited warranty to the first purchaser and guarantees its products to be free from defects originating in manufacture or materials for one year from the date of delivery, provided that suitable transport, storage, installation and maintenance terms are complied with. The warranty does not apply if the products have been repaired without express authorisation from Munters, or repaired in such a way that, in Munters' judgement, their performance and reliability have been impaired, or incorrectly installed, or subjected to improper use. The user accepts total responsibility for incorrect use of the products.

The warranty on products from outside suppliers fitted to the product, (for example antennas, power supplies, cables, etc.) is limited to the conditions stated by the supplier: all claims must be made in writing within eight days of the discovery of the defect and within 12 months of the delivery of the defective product. Munters has thirty days from the date of receipt in which to take action, and has the right to examine the product at the customer's premises or at its own plant (carriage cost to be borne by the customer).

Munters at its sole discretion has the option of replacing or repairing, free of charge, products which it considers defective, and will arrange for their despatch back to the customer carriage paid. In the case of faulty parts of small commercial value which are widely available (such as bolts, etc.) for urgent despatch, where the cost of carriage would exceed the value of the parts, Munters may authorise the customer exclusively to purchase the replacement parts locally; Munters will reimburse the value of the product at its cost price.

Munters will not be liable for costs incurred in demounting the defective part, or the time required to travel to site and the associated travel costs. No agent, employee or dealer is authorised to give any further guarantees or to accept any other liability on Munters' behalf in connection with other Munters products, except in writing with the signature of one of the Company's Managers.

WARNING: In the interests of improving the quality of its products and services, Munters reserves the right at any time and without prior notice to alter the specifications in this manual.

The liability of the manufacturer Munters ceases in the event of:

- dismantling the safety devices;
- use of unauthorised materials;
- inadequate maintenance;
- use of non-original spare parts and accessories.

Barring specific contractual terms, the following are directly at the user's expense:

- preparing installation sites;
- providing an electricity supply (including the protective equipotential bonding (PE) conductor, in accordance with CEI EN 60204-1, paragraph 8.2), for correctly connecting the equipment to the mains electricity supply;
- providing ancillary services appropriate to the requirements of the plant on the basis of the information supplied with regard to installation;
- tools and consumables required for fitting and installation;
- lubricants necessary for commissioning and maintenance.

It is mandatory to purchase and use only original spare parts or those recommended by the manufacturer.

Dismantling and assembly must be performed by qualified technicians and according to the manufacturer's instructions.

The use of non-original spare parts or incorrect assembly exonerates the manufacturer from all liability.

Requests for technical assistance and spare parts can be made directly to the nearest [Munters office](#).

