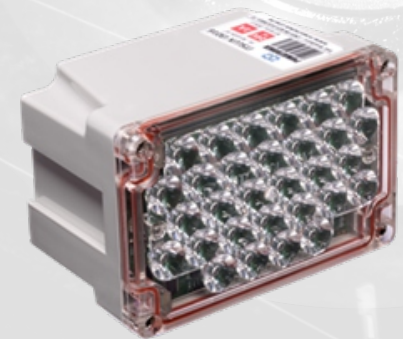


ITSLUX

HIGH POWER, LOW CONSUMPTION AND INTENSITY CONTROL

| Installation

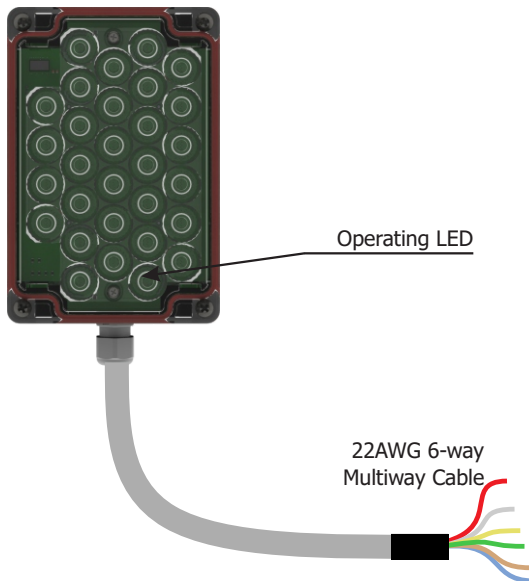


MODELS

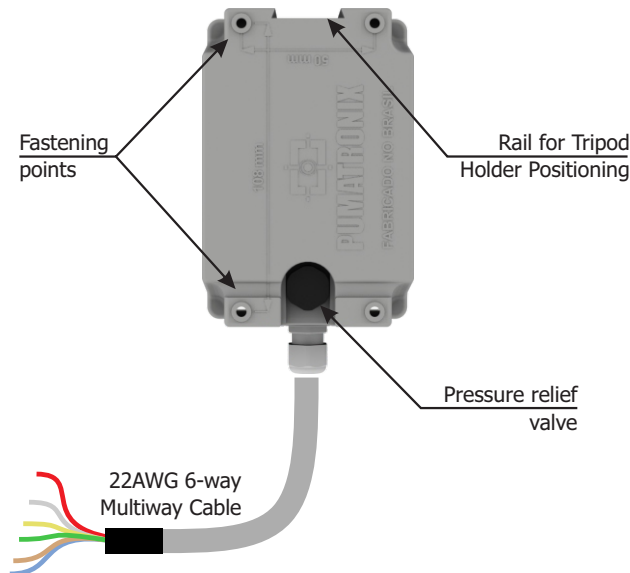


MODELS	I1516	I3016	I3022	I2090	I6022
Emission Angle	16°	16°	22°	90 °	22 °
Recommended distance	15 a 21 m	15 a 28 m	4 a 15 m	3 a 7 m	4 a 21 m
Supply Voltage	12 or 24 Vdc				
Consumption	1w				

FRONT INTERFACE VIEW



REAR INTERFACE VIEW



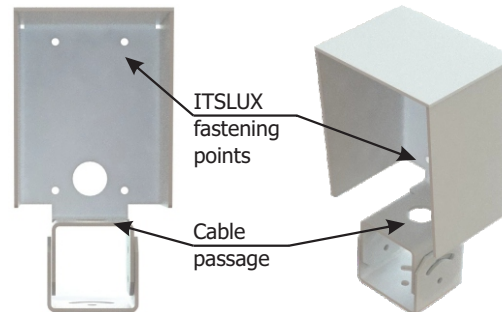
Pressure valve: Keep the pressure equalizer device unobstructed at the ITSLUX installation site.



It is recommended to install the ITSLUX illuminator in conjunction with the ITSLUX Bracket for the vandalism protection function and the direct sunlight on the housing. This can extend the service life of the equipment well beyond the warranty period.

FASTENING ITSLUX BRACKET

1. Route the cable and cable gland to the bottom of *ITSLUX Bracket*.
2. Attach ITSLUX internally to the bracket in the existing holes, using 4 self-tapping screws stainless steel pan head 4.8x13mm.

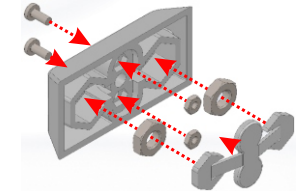


FASTENING WITH TRIPOD CLAMPING MECHANISM

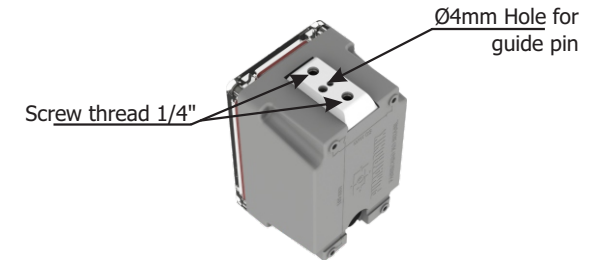


ITSLUX is designed to be installed outdoors, however protection using ITSLUX Bracket is recommended, which increases product durability.

3. Reassemble the *clamping mechanism* following the sequence indicated in the image, if it detaches from the ITSLUX housing:



4. Insert the *clamping mechanism* into the rail located at the top of the illuminator housing, keeping the screws loose or open enough for the assembly to slide on the rail:

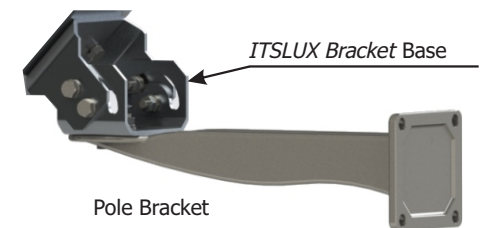


5. Secure the *clamping mechanism* assembly to the illuminator by screwing simultaneously, ensuring that it is perpendicular to the installation surface.

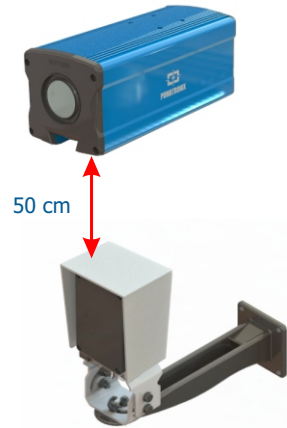
6. Secure the illuminator to the desired surface using two screws with a diameter of 1/4" and the guide pin.

ITSLUX POSITIONING

7. Attach the *Pole Bracket* to the base of the *ITSLUX Bracket* with illuminator fixed, for the installation of the equipment on poles or gantries.



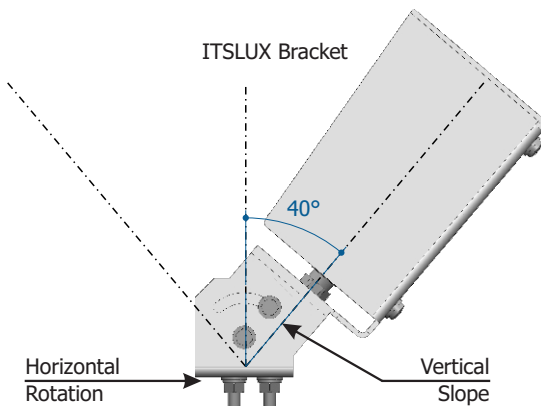
8. Select the same structure of the pole or gantry in which ITSCAM device is fixed, when possible, for the installation of ITSLUX using the *Pole Bracket*, observing the minimum distance between the equipment:



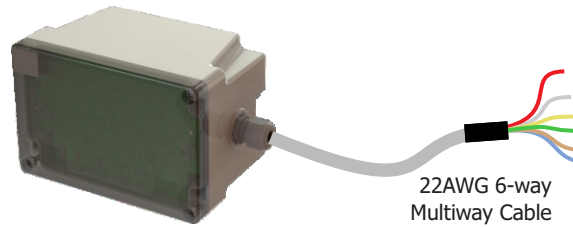
9. Position the illuminator in such a way as to avoid concealment of the luminous flux by objects such as trees or existing structures on site.

10. Direct ITSLUX to the same focal point as the ITSCAM device by rotating horizontally, slightly loosening the screws on the base of the *ITSLUX Bracket*.

11. Direct ITSLUX to the same focal point of the ITSCAM device by tilting vertically, lightly sliding the screws on the base of the *ITSLUX Bracket*, observing the maximum possible angle.



SIGNAL CONNECTIONS



TERMINAL	SINAL
Red	V+
Gray	GND
Yellow	RS-232_Tx
Green	RS-232_Rx
Brown	IN+
Blue	IN-



The electrical and signal connections made in the ITSLUX bundle must be protected in a terminal box or similar structure to avoid oxidation of the connections and unwanted infiltration of liquids in the bundle and consequently in ITSLUX. Examples of structures:



Junction Box Ip67



Splice Connector Ip67

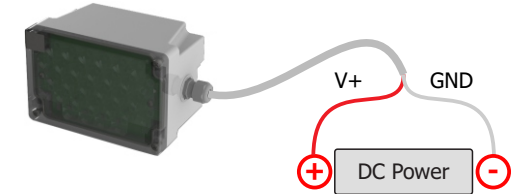


The ITSLUX opening, the cable gland and the exposure of the equipment to moisture through the unprotected cable tip imply the loss of the product warranty.

POWER SUPPLY

12. Use a 12 VDC or 24 VDC power suppl.

13. Make the power connections using the supplied bundle and considering the colors respective to the V+ and GND signals:



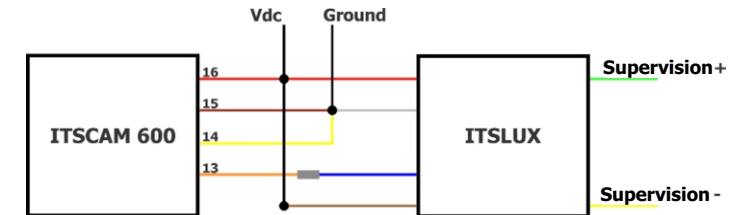
This equipment must be supplied with a direct current (DC) source with a voltage of 12 VDC or 24 VDC. Do not connect any of the inputs directly to the mains (AC)!

ITSCAM CONNECTIONS DIAGRAM

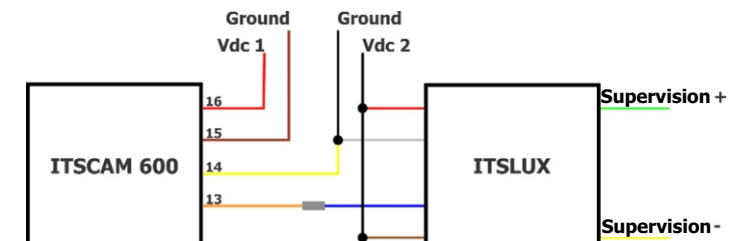
* The connections of the RS-232_Tx (yellow) and RS-232_Rx (green) signals of ITSLUX are used to activate the flash through the RS-232 serial interface, and allows the supervision of the state of the equipment with each shot. Refer to ITSLUX Manuals for more information on operation.

CONNECTIONS USING ITSCAM 600

Connection using only one power supply:

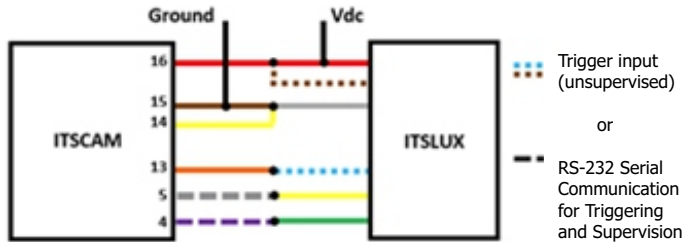


Connection using independent power supplies:

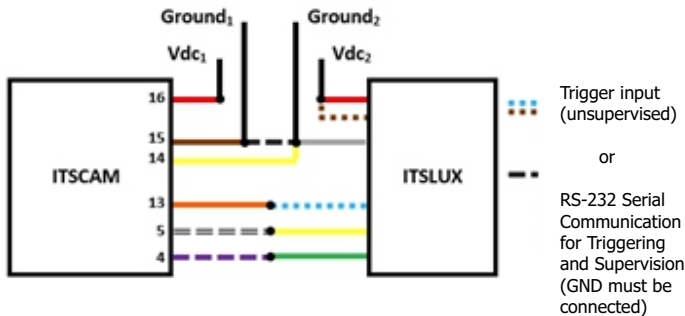


CONNECTIONS USING ITSCAM 400

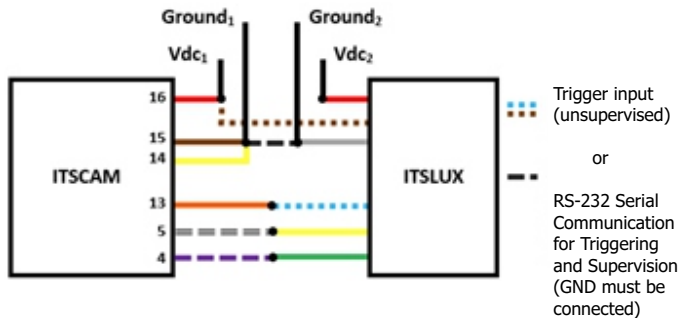
Connection using only one power supply:



Connection using independent power supplies:



Connection option using independent power supplies:



INSTALLING ITSLUX WITH ITSCAM 600

14. Turn of/deenergize the power supply for ITSCAM 600 and the illuminator.

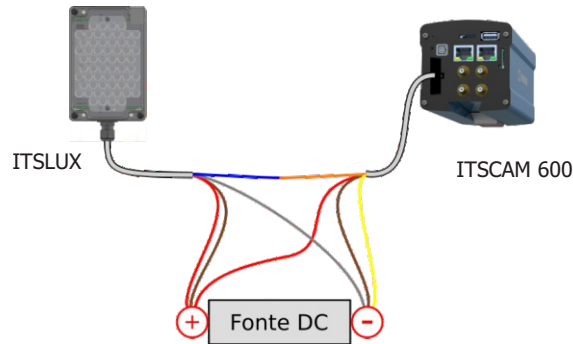
15. Connect ITSCAM 600 **orange** (OUT1+) wire to the Negative (IN-) **blue** wire from ITSLUX bundle.

16. Connect the **yellow** wire (OUT1-) of ITSCAM 600 to the Negative (GND) of the power supply.

17. Connect the **brown** wire of the ITSLUX (IN+) bundle to the source Positive, using the same source that powers ITSCAM 600 or a source that has common ground with the source of ITSCAM 600.

18. Connect the **red** wire (V+) of the ITSLUX bundle to the Positive of the power supply.

19. Connect the **gray** wire (GND) of the ITSLUX bundle to the Negative (GND) of the power supply.



20. Secure connections with splice connector or similar structures.

21. Protect all DC power bundle ways.

22. Isolate unused ways from the Microfit connector bundle and ITSCAM 600 bundle.

23. Check through the web interface that the position of the illuminator correctly illuminates the focal point of the images generated. Access the ITSCAM 600 Integration Manual for more information.

INSTALLING ITSLUX WITH ITSCAM 400

24. Turn of/deenergize the power supply for ITSCAM 400 and the illuminator.

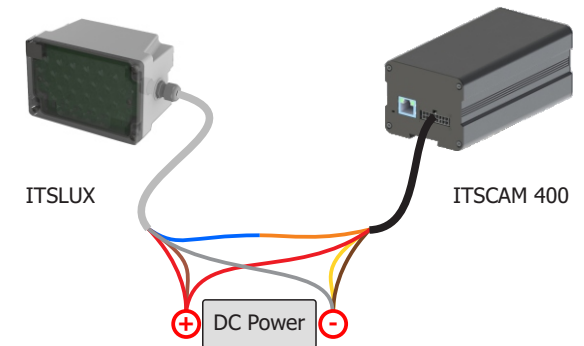
25. Connect ITSCAM 400 **orange** (OUT1+) wire to the Negative (IN-) **blue** wire from ITSLUX bundle.

26. Connect the **yellow** wire (OUT1-) of ITSCAM 400 to the Negative (GND) of the power supply.

27. Connect the **brown** wire of the ITSLUX (IN+) bundle to the source Positive, using the same source that powers ITSCAM 400 or a source that has common ground with the source of ITSCAM 400.

28. Connect the **red** wire (V+) of the ITSLUX bundle to the Positive of the power supply.

29. Connect the **gray** wire (GND) of the ITSLUX bundle to the Negative (GND) of the power supply.



30. Secure connections with splice connector or similar structures.

31. Protect all DC power bundle ways.

32. Isolate unused ways from the Microfit connector bundle and ITSCAM 400 bundle.

33. Check through the web interface that the position of the illuminator correctly illuminates the focal point of the images generated. Access the ITSCAM 400 Integration Manual for more information.

CARE AND MAINTENANCE

- Periodically check the situation of installations as a measure of preventive maintenance;
- Confirm that the illuminator is aligned towards the vehicle capture point, correcting the alignment when necessary;
- periodically inspect the state of preservation of the polycarbonate front cover, as fragments resulting from vehicle movement on the runway or vandalism may collide and cause damage to the quality of lighting;
- Remove excess dirt sticking to the surface when needed.

WARRANTY TERM

Pumatronix guarantees the product against any defect in material or manufacturing process for a period of 1 year from the date of issue of the invoice, provided that, at the discretion of its authorized technicians, a defect is found under normal conditions of use.

The replacement of defective parts and the performance of services resulting from this Warranty will only be carried out at the Authorized Technical Assistance of Pumatronix or a third party expressly indicated by it, where the product must be delivered for repair.

This Warranty will only be valid if the product is accompanied by a Maintenance Form duly completed and without erasures and accompanied by an Invoice.

SITUATIONS IN WHICH THE PRODUCT LOSES ITS WARRANTY

- 1) Use of software/hardware not compatible with the specifications in the Manual;
- 2) Connecting the product to the power grid outside the standards established in the product manual and installations that present excessive voltage variation;
- 3) Infiltration of liquids from opening/closing of the product;
- 4) Damage caused by natural agents (electric discharge, flood, sea fog, excessive exposure to climate variations, among other factors) or excessive exposure to heat (beyond the limits established in the Manual);
- 5) Use of the product in environments subject to corrosive gases, with excessive humidity and/or dust;
- 6) Show signs of tampering with safety seals;
- 7) Show signs of opening and modification made by the customer in places of the product not authorized by Pumatronix;
- 8) Damage caused by accidents/falls/vandalism;
- 9) Display adulterated and/or removed serial number;
- 10) Damage resulting from transportation and packaging of the product by the customer in conditions incompatible with it;
- 11) Bad use and in disagreement with the Instruction Manual.

PRIVACY POLICY

In compliance with the General Law on Data Protection (LGPD) - Law No. 13,709, of August 14, 2018, this product has programmable functions for capturing and processing images that may infringe the LGPD when used, together with other equipment, to capture personal data.

Pumatronix is not responsible for the finalities, use and treatment of the images captured, and the control of the information and forms of operation of the product are the exclusive decision of the user or purchaser of the product.



*** For additional information, access the product manual at www.pumatronix.com.br.**

TECHNICAL SUPPORT

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Movement in Focus.

