



NS-45PA Installation Guide

Thanks for choosing a Night Sabre, in this box you will find a weatherproof LED light, 2 mounting clips, fixing screws and weatherproof connector kit.

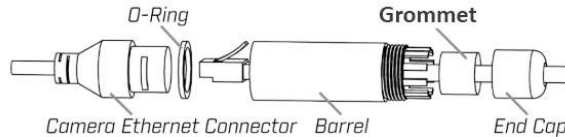


Installation

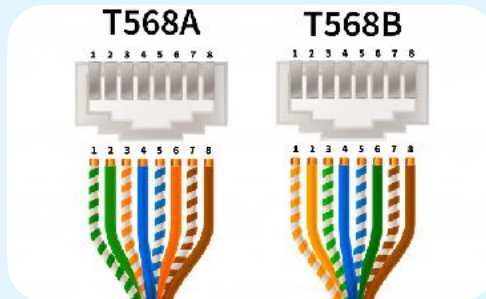
This light can be fixed underneath an overhang such as a windowsill, above a garage door or fixed directly to a wall. The mounting height should ideally be between 2-5m. The clips can be fixed vertically or horizontally. Screw the 2 mounting clips about 25cm apart to the wall (or overhang) with the supplied screws.



The distance between the clips isn't critical as they can fit on anywhere along the length of the aluminium part of the light. To mount the light simply fit one edge into the top or bottom of the clips then twist it round until it clicks into place.

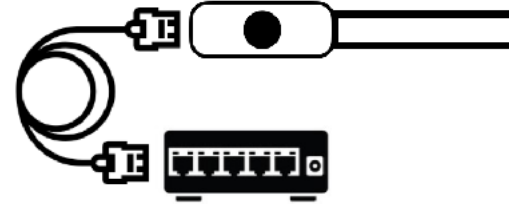


The weatherproof RJ-45 connector kit should be assembled as per the diagram, pass the CAT5/6 cable through the end cap, grommet and barrel before terminating with the male RJ45 crimp connector. Plug the connector into the socket of the light's cable then twist the barrel onto the connector to seal the joint.



Pin outs TS568A or TS568B can be used

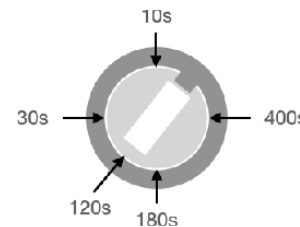
This PoE light requires connection to a PoE switch capable or providing 13.5w (802.3af) or a PoE injector (sold separately) it is also compatible with PoE+ (802.3at) switches and some IP CCTV cameras with PoE pass thru. Recommended maximum cable run between the switch and the light is 90m.



Adjustment

The default dwell time is for the light to remain on for 90 seconds after last activation, if this needs to be adjusted it's easiest to do that before installation as the rear cover has to be removed. There is an internal rotary adjuster to increase or decrease the dwell time, remove the sensor end cap rear cover, taking care not to lose the 4 screws.

Use a small flat blade screwdriver or potentiometer adjuster to increase the dwell time by rotating anti-clockwise or decrease the dwell time by rotating clockwise. Maximum dwell time is 400 seconds after last detection. Minimum dwell time is 10 seconds.

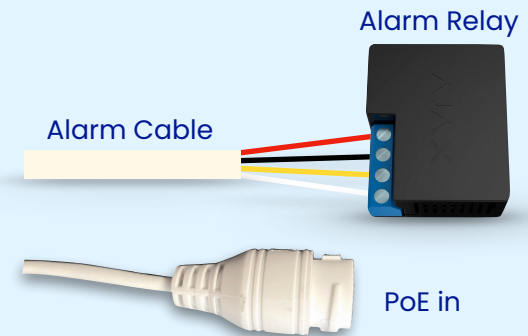


External Strobe Alarm Input

The yellow and white wires at the end of the cable allow the blue/red strobe alarm feature to be triggered by an external source such as a CCTV camera or alarm relay. The input is a digital input and requires a state change to "closed" to activate. It will strobe for as long as the input state is "closed". The dwell setting of the Night Sabre has no bearing on the external trigger input neither does the dusk/dawn sensor. When the alarm input is triggered the white LEDs will turn off.

13vDC Output

The red and black wires at the end of the PoE cable supply 13vDC to power a wireless relay. It is constantly powered and provides 100mA..



RG-45	- PoE Power 802.3af
Yellow	- Alarm input GND
White	- Alarm input N/O
Red	- 13vDC output +
Black	- 13vDC output GND

Operation

The Night Sabre security light has a flashing blue LED to let you know it's powered on and ready.

The floodlight will only come on when it is dark and the PIR sensor detects motion, the light will stay on as long as there is movement and then for the set dwell time after movement has stopped.

The motion sensor covers an area very similar to the illuminated area – about 90° vertically and 120° horizontally, so as long as the light has been installed correctly the sensor will be aimed in the right direction

This light uses the latest in digital sensing technology, there are no further adjustments necessary.

To reset the sensor simply disconnect then reconnect after 10 seconds, this will recalibrate the sensor.



Trouble shooting

When you first power on the light it will illuminate for a second or so then turn off, the blue warning LED will begin to flash.

No flashing blue LED:

- Check the PoE switch to see if the PoE light is indicating connection (no data is sent to the Night Sabre so no other network switch LED indicators will light)
- Check that the RJ-45 is correctly crimped and pushed into the socket. Use a network cable tester to ensure the crimping is correct.
- Make sure the power cable has not been damaged during the installation

Light not turning on:

- Check that the blue LED is flashing - so we know the light is powered and ready
- Is it dark enough? The light only works when the light level falls below 20 lux – this is night time but perhaps there is another light source that is affecting the sensor?
- Is the motion sensor able to see the movement – is there anything blocking the sensor that might prevent it from detecting human movement? Try waving your hand directly in front of the light when it's dark
- Are there any CCTV cameras close that are pointing at the light? Some cameras have built in Infra-red lights that will reduce the performance of the motion sensor.

Light stays on or is on most of the time at night:

- Is the dwell time set too long?
- Is there something that is constantly moving in front of the sensor?
- Are there other heat sources moving within 9m of the light? A hot air vent, road traffic or some other moving object that could be triggering the sensor?

Alarm Strobe not working

- Are the correct wires be used? Yellow and white
- Are the wires being shorted (N/O)?

Maintenance

The Night Sabre light uses very efficient LEDs that are designed to last for more than 35,000 hours – that's over 20 years at an average of 4 hours each night. So there are no bulbs to replace.

Like any light you will get the best performance if it's clean, the motion sensor lens should also be kept clean and free of cobwebs or dust - use a damp cloth to wipe the front of the light down every so often.

More advice? Try the FAQ section on our website www.nightsabre.com or email us at info@devicesmart.uk

This manual is available in other languages at www.nightsabre.com

NIGHT SABRE™ NS-45PA Specifications

Power	802.3af/at 45V
Light Power	1400 Lumens
Power Output	13vDC 100mA
Energy	11w A++
PIR Range	9m
Detection Zone	120° H x 90° V
Dusk/dawn Point	20 Lux
Weatherproof	IP-65
Operating Temp	-20°C to +50°C
LED Lifetime	35,000 Hours
Dimensions	475 x 30 x 30mm
Weight	400g

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Designed in the UK by Device Smart Ltd

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Made in China

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