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Dan has been a licensed electrician at the travel level for 17 years. He has extensive experience in most areas of the electricity trade. LightingOutdoor Motion Sensor Motion Lighting Sensor will enhance safety and save energy while providing light for your own needs at the same time. WildernessInstalling light motion detector is a simple task, well suited to a homeowner who is willing to put in a few minutes to improve their home. The task depicted in the photos here, showing the replacement of faulty light, took only about 15 minutes and no special tools. These nifty lights are becoming more common as they provide an extra layer of security around the house without lighting the area in vain all night. They are designed to come on only when movement is detected outside when it is dark. They will not come during the day or when there is no one, ensuring the safety of the illuminated yard without the cost of working light all night long. These lights can also be part of a home automation system, automatically providing outdoor lighting as needed. To install a new motion detector light, start by removing the old lamp. No contact voltage detectors These are neat little testers that don't require bare wire (which can be hot) to check for voltage. As a professional electrician there is always one in my pocket and it is used before touching any wires if there is any possibility at all that they can be hot. A great tool for handymen to do any electrical work, they are inexpensive and a good tool for your own safety. I highly recommend them. Removing the Old World The first step in any electrical project is to turn off power. Don't try to replace the light with power, get a nasty shock is no fun at all and can turn a beautiful day into a very ugly one. Turn off the switch and turn off the switch. Once the wiring behind the light is exposed, check it with a voltmeter or contactless voltage detector to make sure the power is off. If you replace the current light motion sensor, it will not light in the day, making it difficult to know that it is off. The light bulb could be burned even if it worked last night. You could turn off the wrong switch. Someone else might turn the switch back on, or you could turn on the wrong switch. Check and make sure the power is off! Lights are most often held to the wall with two screws or small bolts with decorative nuts. If the device is large or heavy, it may be useful to have an assistant that can keep the light power testing and re-mounting. Light fixtures can hang from wires for short periods without harm, but heavy lights must be supported by some means while the work is completed behind them. With screws or bolts removed, pull From the wall carefully; The old wiring can be loose in wire nuts and the splicing can disperse, leaving bare wires that can be hot. Safety first! With the wires exposed, check for the last time to make sure the power is off with a voltmeter or voltage detector. If black and white wires from light do not go to black and white wires in an open box, pay attention to which wire they go to; old houses (until 1950) may have wires that do not follow current color codes. Remove any wire nuts or, if necessary, cut the wire to an old lamp. If you need to cut the wire, cut it out for as long as possible and strip the insulation from the last 1/2 with a stripper wire or a knife. There may or may not be a ground, bare, wire attached to the light; If there is disable it as well and lay the old appliance aside to remove. There will probably be a small bracket behind the fixture, through the window that the fixture is attached to. This light is still on! Install the new LightAlthough motion sensor there are literally thousands of features for outdoor motion sensor lights and they will be assembled in different ways, they will all be attached to the wall of the box and wire in the same way. In fact, these lights are often easier to install than conventional indoor fixtures. Most fixtures will come with a bracket that must be attached to the box, with light attached to this bracket. This allows some adjustment to get the lamp upright and allow the attachments to different box sizes. Read and understand the direction of the montage for your light before proceeding as some lights may need a minor build, and the mounting brackets are somewhat different. The device shows that it is difficult to replace the lamp, and it was screwed before the installation of light, while the device was still on the table. Consider doing so if it turns out that it will be difficult to install a new light bulb later; It's always possible, of course, but often easier if you can turn and twist the fixture by inserting your hand into a hole too small for it and screwing into the lamp. Attach any braces you need for your light. They should come with screws for this purpose, but if not the box will take 8/32 screws machine. If the screw holes are stripped, then #8 or #10 sheet metal screws can usually be used. It will be useful at this point to work the wires because of the bracket so that the light wires can be easily attached, just make sure that the wires can be stacked back behind the bracket to install light. Splice the wires together with the wire nuts. All black wires usually together, and the white wires are splicing together, though this is not a firm rule. In some cases, there will be various colored wires spliced into the box that do not come out to light (they go in in Switch instead), but there should be at least one black wire and one white wire that go to the fixture. If there is a ground wire (naked insulation or green) in light it will be spliced into the ground wire in the box; If not the ground wire in the box, it will attach to the screw on the bracket. Any method is acceptable; Just make sure the device is grounded if there is a ground wire in the box. Check each wire nut, holding a nut in one hand and pulling tightly on each individual wire; Better that poor splicing break up now than as you fold the wires back into a box where you can't see them. Attach the device according to the manufacturer's instructions and install the light bulbs as needed. While it may be tempting to put in a CFL lamp (a meandering fluorescent lamp), it's probably not a good idea if it's not designed for cold temperatures; These bulbs often don't work well when the outdoor temperature drops to almost freezing. Energy savings will be minimal anyway as your new appliance will only be turned on for minutes a day and not overnight. Turn on the power and turn on the switch. The light probably won't come on (presumably it's daytime while you're working!), but most lights have a test switch on them that will turn them on regardless of movement or daylight. Make sure the light works and drops the test switch into working position; Again, most lights have a number of tweaks to how long the light will remain after the motion is detected. The sensitivity of the motion detector can be established as well, preventing light from coming as it detects passing car traffic or small animals. Final offer; You can consider LED bulbs for your new light. Unlike CFL they will work in the cold (most motion sensors are lights installed outdoors) and will save plenty of energy on old incandescent bulbs. The price of these bulbs has dropped significantly, making them a viable option. Congratulations! You have installed your own light motion sensor, and without calling an electrician to do a simple 15-minute job. It feels good, doesn't it, do your own project to improve the house rather than hire it to do? The bracket for the new light had to be removed from the light before installation. This article is accurate and true to the best of the author's knowledge. Content has only information or entertainment purposes and does not replace personal advice or professional advice on business, financial, legal or technical issues. The questions and answers: Why would the motion sensor light stay? Answer: If this is a new installation, it is most likely wired incorrectly. If older, the sensor is likely not They can fail in position on or off and it sounds like he's not in on position. It is also possible that the adjustments have been changed; Many sensors can be installed on on so so so Light can be tested or tested.© 2012 Dan HarmonCommentsDan Harmon (author) from Boise, Idaho February 11, 2020:@OhFrugal: It looks like you have an unearthly system. I say this because the light had no ground and you do not indicate that the box has ground in it or that it was in the metal system of the race track. If this is the case, you may have problems as some electronic devices, such as part of the motion sensor, require the ground to function. This is also due to a contactless voltage detector; In fact, these units often pick up static in the air and report voltage, where in fact there is nothing approaching 120V. In fact, it is this feature that makes them virtually useless in the trouble of shooting fluorescent lights and ballasts. You can try to connect the light of the land wire to neutral; certainly not the preferred method, but can help. OhFrugal on February 11, 2020:I am not a licensed electrician, but a professor of electrical engineering and computer engineering and has all the necessary knowledge of the subject (not day-to-day codes), tools and understanding of security needs, etc. I changed the external light flood to the LED light motion sensor. The old fixture mounted on the docking box (as well as wires other from the switch to the connection box) had only black and white wires (live and neural) and had no ground wire (a house built in the 1960s). The new fixture came with three wires: black, white and green/yellow (supposed to be the ground) and the crossroads window mounting a bracket with a ground screw on it. I powered it and first tested around the device with a contactless voltage sensor. The voltage sensor signals next to the motion sensor block, but not two lamps. I looked around the internet to see if I was making any mistakes as there is a lot of confusion on grounding and their rules but not found. I'm just wondering if the device is defective, since the beep sensor is only near one of the three units (you know when the wires are connected and the units can rotate, something could go wrong - I bought it from a post order firm). Any thoughts you can give? I don't want a good unit to go into the trash unnecessarily. Kristen Howe, center, September 16, 2015: Great Center, Dan. It is so helpful to have this center to measure security for your own home. At home. motion sensor projects using arduino. arduino pir motion sensor projects. pir motion sensor projects. leap motion sensor projects. raspberry pi motion sensor projects. ultrasonic motion sensor projects. motion sensor iot projects. motion sensor circuit design projects

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