NAPCO®
333 Bayview Avenue
Amityville, New York 11701
For Sales and Repairs, (800) 645-9445
For Technical Service, (800) 645-9440
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F-GDMS
GARAGE DOOR MOTOR SENSOR INSTALLATION INSTRUCTIONS

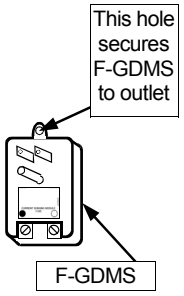
WI1452 10/05

The NAPCO Freedom F-GDMS Garage Door Motor Sensor is an electrical device used to measure the current of an appliance plugged into a 110VAC output. The two output terminals supply a low current limited AC voltage, proportional to the current (amperage) supplied to the appliance. The output of the terminals is approximately 1Vpp to 1 ampere of appliance current. The F-GDMS requires a duplex receptacle outlet with a center cover screw to secure the module to the outlet, as illustrated below.

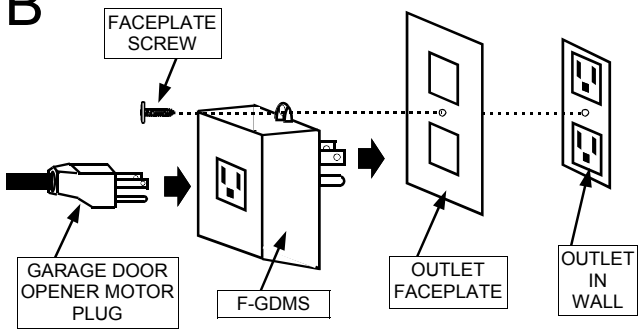
INSTALLATION:

Note: Before installing the F-GDMS, be sure to power down the garage door motor according to its manufacturer's specifications.

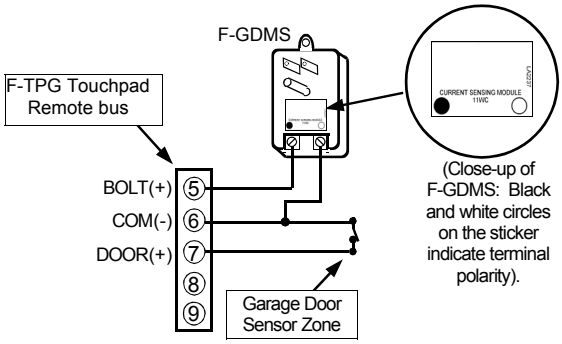
A **Install the F-GDMS.** Unplug the existing garage door opener motor electrical cord from its 110VAC outlet. Remove the outlet center faceplate screw. Holding the faceplate in place, plug the F-GDMS into the 110VAC outlet and replace the center faceplate screw through the hole at the top of the GMS, securing the F-GDMS to the outlet. Plug the garage door opener motor power cord into the 3-prong outlet in front of the F-GDMS. See Step B for exploded view.



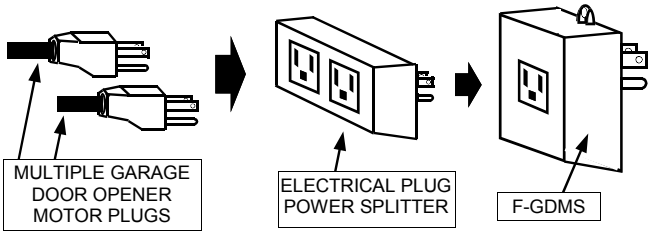
B



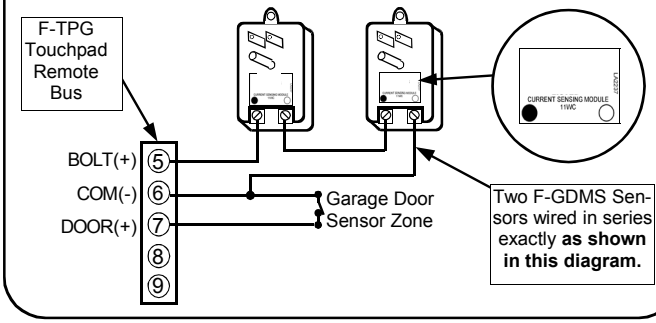
C **For a single garage door,** wire the F-GDMS as shown:



D **For Multiple Garage Door Openers using one outlet**, you must use a simple electrical plug power splitter. (BOTH motors must run through the F-GDMS). For two motors using two outlets, go to step E.

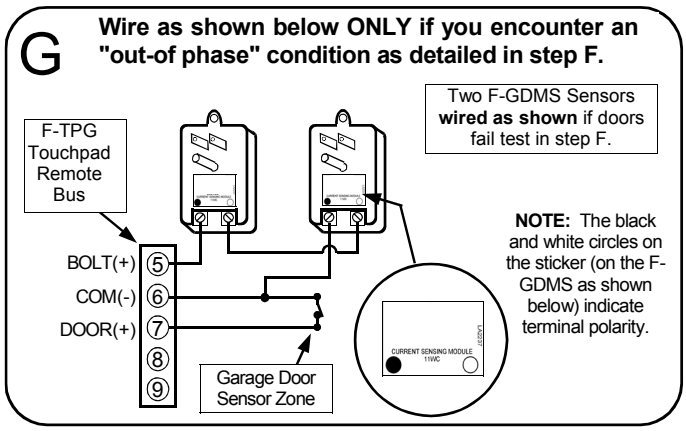


E **For Multiple Garage Door Openers *using two or more outlets* (one for each door motor)**, you must use two F-GDMS's and they must be wired in series:



F **TEST THE SYSTEM.** Always test the operation of the F-TPG Garage Touchpad and the garage door(s) to ensure the system arms and disarms properly.

SPECIAL TEST FOR MULTIPLE GARAGE DOORS: In the special case of two or more garage doors which operate *simultaneously*, (i.e. with one remote control), with separate door motors powered by separate AC outlets, a failure to arm/disarm could be due to an "out of phase" condition. Re-wire by reversing the wires on one F-GDMS as shown in step G (on next page) and re-test the system.



ENVIRONMENTAL CONDITIONS:

The F-GDMS is designed to be safe at least under the following conditions:

- Indoor use only
- Altitudes up to 2000 m, or above 2000 m
- Temperatures between 5°C to 40°C
- At a maximum relative humidity of 80% for temperatures up to 31°C (decreasing linearly to 50% relative humidity at 40°C)
- Supply voltage fluctuations not exceeding ±10% of the nominal voltage of 110 volts
- Pollution Degree 2, overvoltage category Cat II.

SPECIFICATIONS:

VOLTAGE:	120 VAC, 60 Hz, single phase.
CURRENT:	0 to 15A.
MOUNTING:	Rear screw head mounting slots. Typical mounting hardware supplied.
POWER IN PLUG:	NEMA 5-15 class blade-type (male) Power-out Receptacle, Internal receptacle NEMA 5-15 class, blade type.

☞ **MAXIMUM LEAKAGE CURRENT SHALL NOT EXCEED 0.5MA.**

SWITCHES/CIRCUIT BREAKERS:

A switch is not a part of the system, therefore:

- A switch or circuit-breaker shall be included in the building installation;
- The switch or circuit-breaker shall be in close proximity to the equipment and within easy reach of the operator;
- The switch or circuit-breaker shall be marked as the disconnecting device for the equipment.