

IEI eMerge™ MicroNode Extreme QuickStart



USA & Canada (800) 421-1587 & (800) 392-0123
(760) 438-7000 - Toll Free FAX (800) 468-1340
www.ieib.com

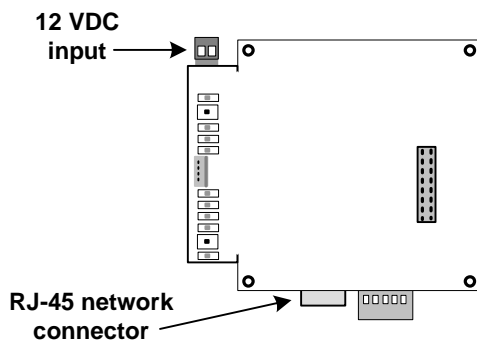
Connecting Power

For Power over Ethernet (PoE)

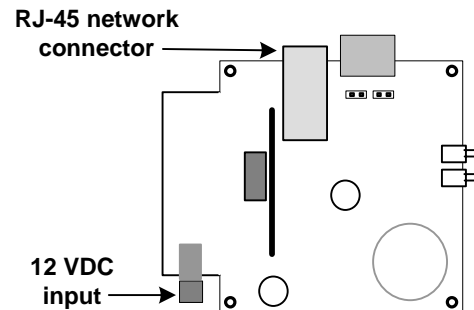
The MicroNode requires PoE to conform to the IEEE 802.3af standard. This provides nominal 48 VDC at a maximum of 400mA. With PoE, no external power supply is needed.

For an External Power Supply

The MicroNode requires 12 VDC 2 Amp power supply. With external power supply, no PoE is needed. The power supply must be located no further than 50 feet from the MicroNode.



Bottom Board topside.

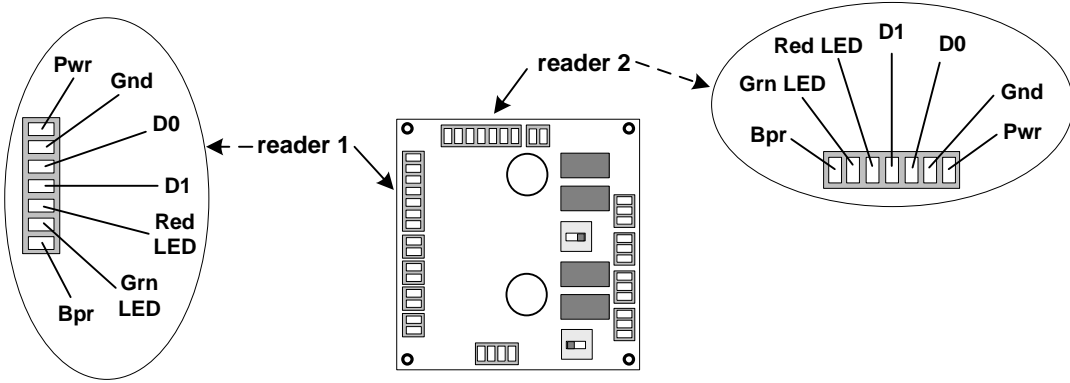


Bottom Board Underside

NOTE: PoE total power available for external 12V output is 500 mA (6 watts).

NOTE: 12VDC power supply total power available for external 12V output is 1100 mA (13 watts).

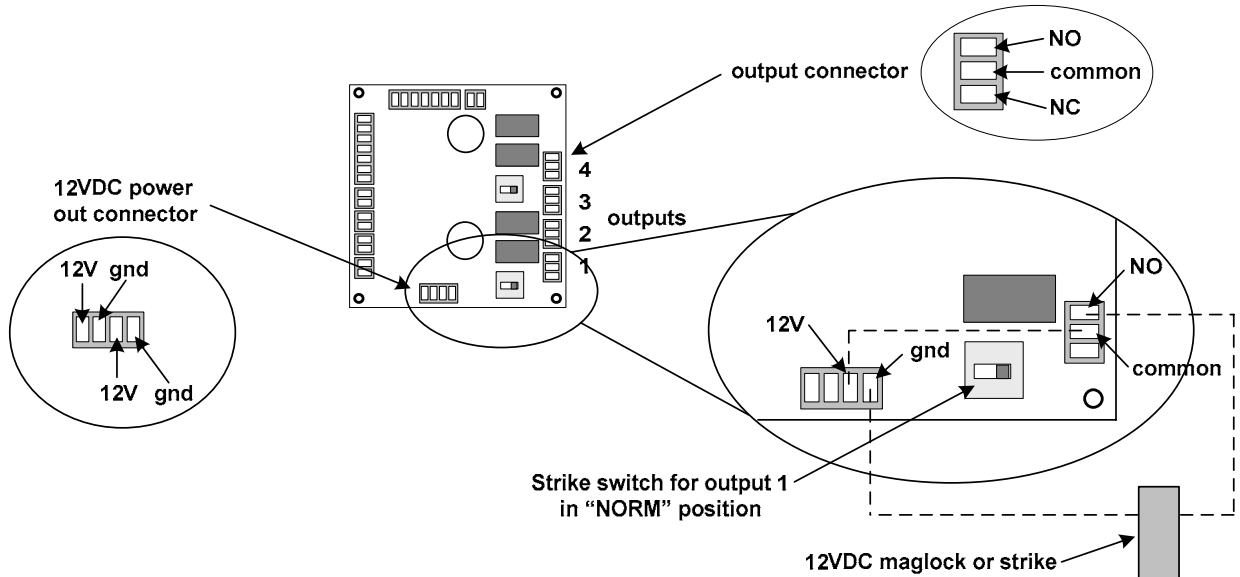
Wiring and powering readers



Reader connectors on the Top board.

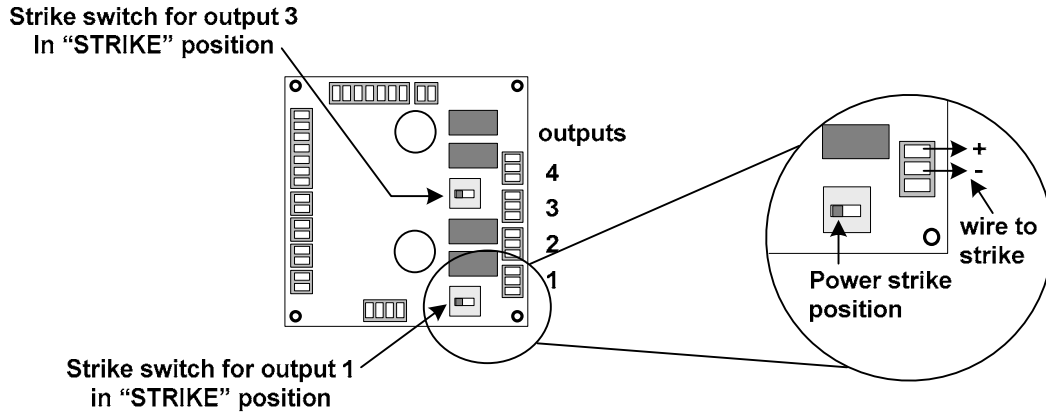
Wiring and powering 12VDC door strikes and maglocks

Any output can be used for powering 12V strikes or maglocks. If output 1 or 3 is selected you must set the strike switch in the NORM position. Wires must be a minimum of 20 AWG.



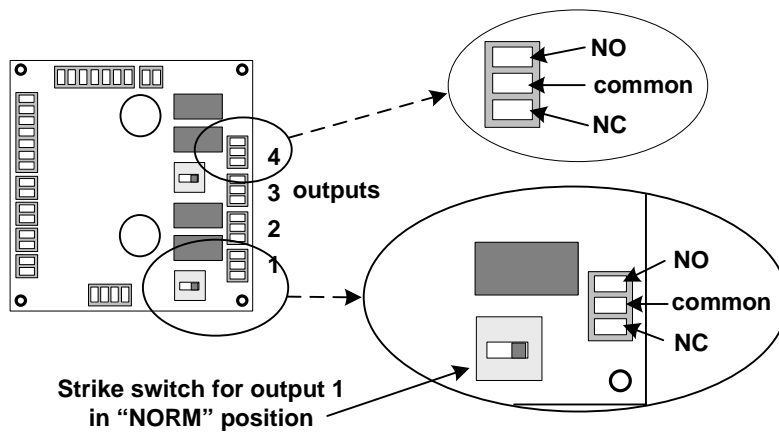
Wiring and powering 24VDC door strikes

Only outputs 1 and 3 can be used for powering 24V strikes. 24V maglocks cannot be powered by the MicroNode. The example in the image below uses output 1 and the strike switch for output 1. Wires must be a minimum of 20 AWG.



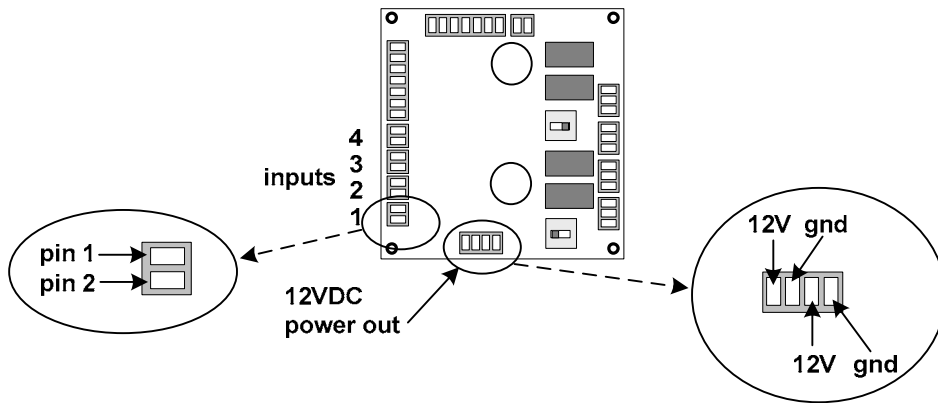
CAUTION: Polarity shown must be observed if using a diode to clamp the kickback voltage from the strikes. IEI recommends the use of a diode, varistor, or transient voltage suppressor (TVS).

Wiring outputs not requiring MicroNode power

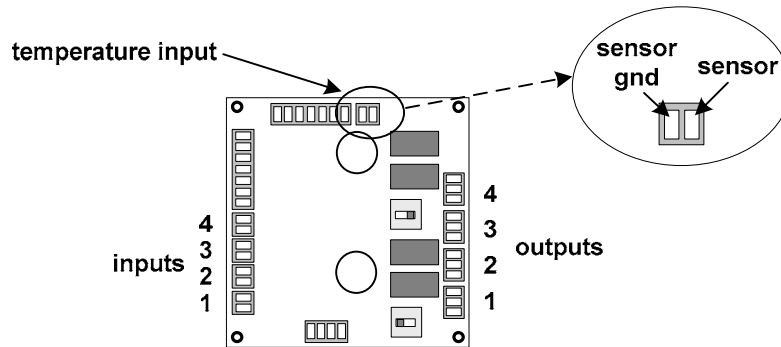


CAUTION: If output 1 or 3 is selected you must set the strike switch in the NORM position. Otherwise power will be delivered to this output device.

Wiring and powering inputs



Wiring temperature sensors



NOTE: IET temperature sensors can be located up to 500 feet from the MicroNode using CAT5 twisted pair cable. The black wire from the sensor is the ground.