

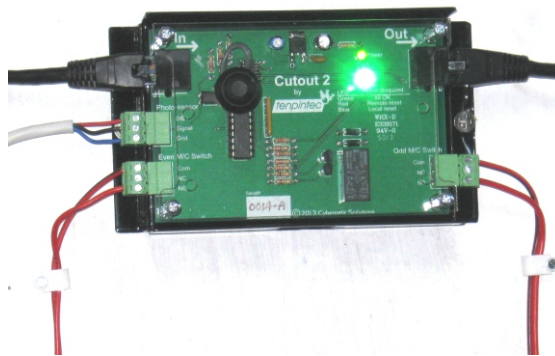
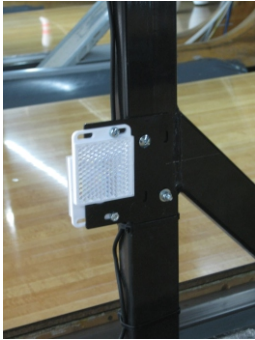
MachineMinder Cutout-2 Module



for AMF 82-90XL without EPO

MachineMinder is a system of components that link together to create a safer Pinspotter or Pinsetter machine.

Cutout-2 is the first stage towards compliance with AS4024.1-2006, the Australian Machine Safety Standard. This Standard is similar in most respects to other modern international standards for machine safety.



Operation and Procedure

During normal operation, the MachineMinder Cutout-2 status LED will show GREEN.

If the MachineMinder IR beam at the front of the machine pair is blocked, the MachineMinder Cutout-2 status LED will FLASH BLUE. This indicates E-Stop mode and will cause the Dual Channel Safety Relay (DSR) Module to sense an E-Stop condition.

The BLUE RESET light on the DSR Module will FLASH. The DSR output relay will de-activate, removing power from the left and right machine contactors located in the HV Module. This will turn off the machine pair.

Before attempting to restart the Pinspotter pair, check to see that the IR beam is no longer blocked and that the machines are safe. It is recommended that the MachineMinder Cutout-2 module is mounted on the curtain wall, so that the operator has a clear view of the front area of the machines when performing a reset.

Restarting the Pinspotter is a 2 STEP process:

1. Press the RESET button on the MachineMinder Cutout-2 module. The status LED should return to GREEN and the BLUE RESET light on the DSR Module will stop flashing and turn solid BLUE.

Note: if all MachineMinder Cutout-2 modules have been subject to a global E-Stop (ie from a remote E-Stop button that will shut down all machines), the status LED will FLASH RED. Resetting the remote E-Stop button will reset all the MachineMinder modules to their normal (GREEN LED) condition.

2. Press the BLUE RESET button on the Dual Channel Safety Relay module.

The GREEN Relay A indicator on the DSR Module, LEFT MACHINE and RIGHT MACHINE indicators on the HV Module will light and the Pinspotter pair will restart.

Monthly Testing Procedure

1. All machines running
2. Ensure Green LED is lit in all MachineMinder Cutout-2 modules
3. Place a hand or other item to block the IR beam on each lane pair
4. Ensure that pair of lanes turns off
5. Indicator in Cutout-2 module should be FLASHING BLUE
6. Reset button on the Dual Channel Safety Relay Module should be FLASHING BLUE
7. Push RESET button on Cutout-2 Module - indicator should turn GREEN
8. Push RESET button on Dual Channel Safety Relay Module (machines will restart)
9. Turn off machines as required

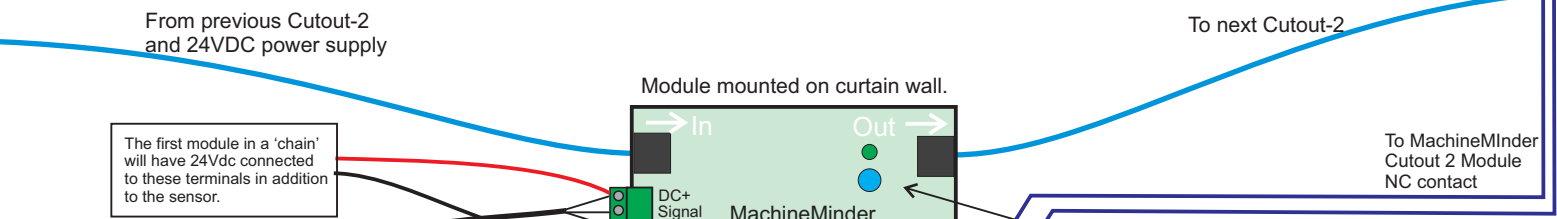
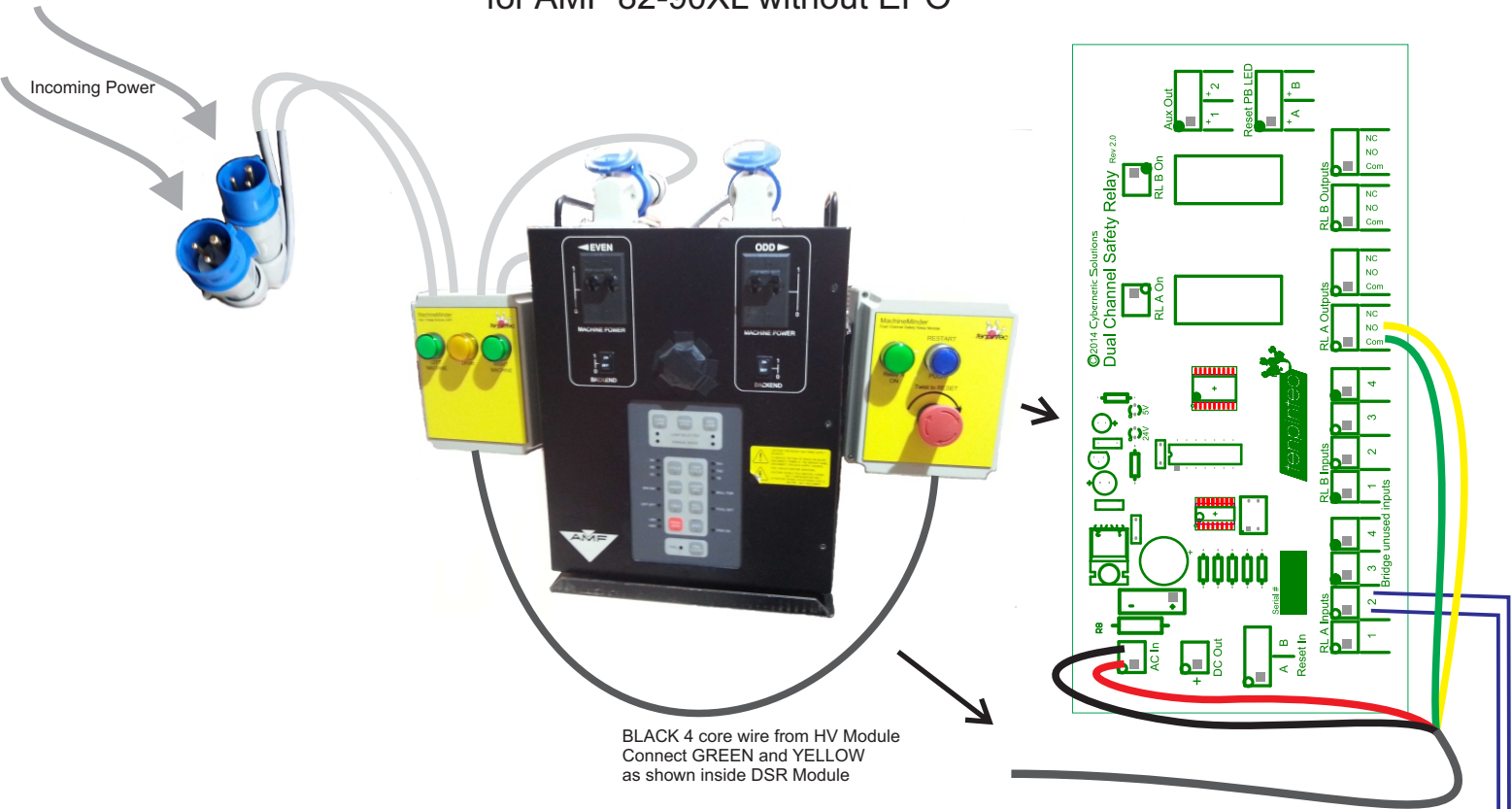
Monthly Inspection Procedure

1. Check all IR beams for damage and alignment
2. Check all IR reflectors for damage and alignment
3. Check all cables and connectors for damage and security

MachineMinder Cutout-2 Module



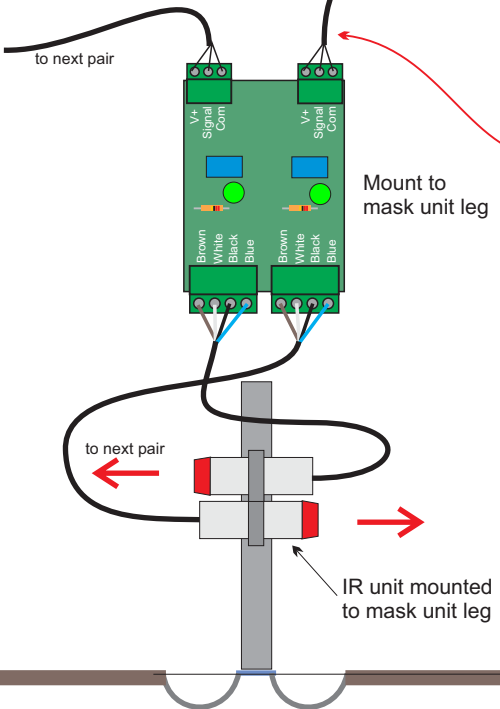
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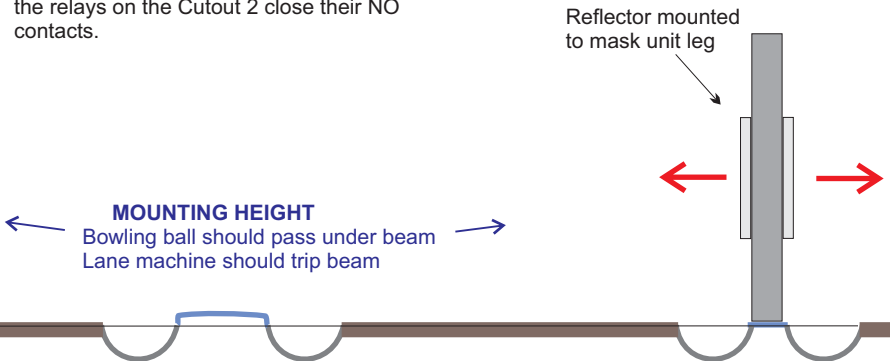
The first module in a 'chain' will have 24Vdc connected to these terminals in addition to the sensor.

LED Colour legend:

- GREEN = All Ok machine operating normally
- RED FLASH = A remote E-Stop or Panic Button (if fitted) has been tripped and needs to be RESET
- BLUE FLASH = The IR beam on this machine pair has been tripped. Ensure machine is clear, push black RESET button on Cutout2 Module and then Press BLUE RESET on the Dual Safety Relay Module



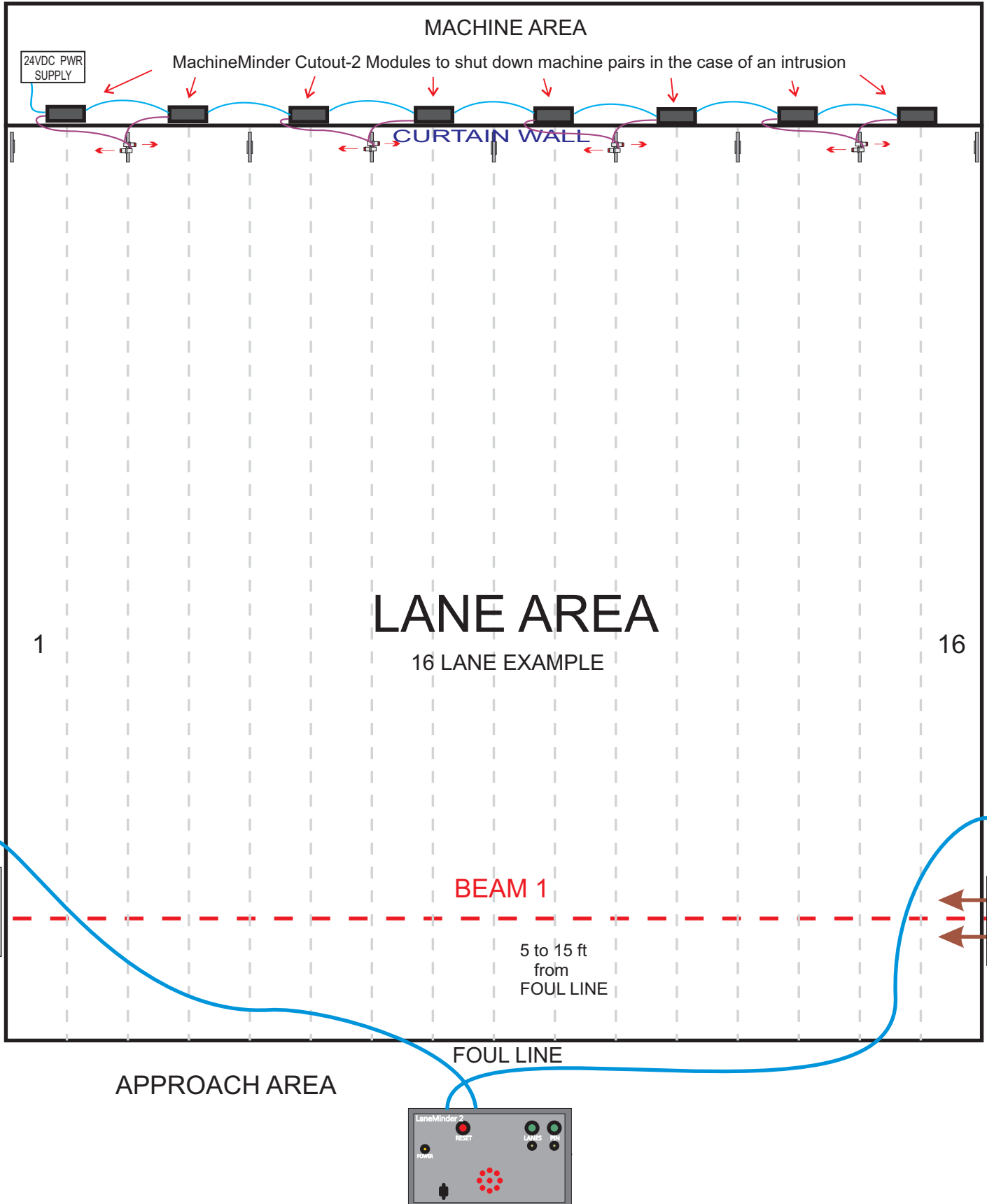
When the IR beam connected to the Cutout 2 is broken, or an external signal is received, the relays on the Cutout 2 close their NO contacts.



MachineMinder Cutout-2 Module



MachineMinder Cutout-2 Modules mount to the curtain wall above and between each pair of machines.
The Modules are daisy-chained together with Cat-5 cables to supply 24VDC power, shut-down and reset signal.
Entering either machine of a pair from the front will break the IR beam and shut down that pair.
Note: Guards need to be in place to stop a person moving to the next pair of machines once behind the mask units.



LaneMinder2 Lane intrusion warning system
- not connected to MachineMinder safety system