

ICS-6 Installation Guide

Interlock Components (sample system – your setup may have more items)

Quantity	Lasermet Part	Description
1	ICS-6	Interlock Controller System
2	IS-MDC-12	Coded Dual Channel Magnetic Door Contact
1	ICS-KP12	Access Keypad with Fail-Safe Override Timer
1	LEDS-L-2W	Miniature Warning Sign Instruction Manual
1	ICS-1-DB-1/1	Distribution Block
1	LEAD-IC-OE-3M	Interlock Connector Lead, 3 meters

Tools Needed

1/8" wide flat head screwdriver

3/32" wide flat head screwdriver

Wire Strippers (28-16AWG)

Cabling Needed

4-core (4c) low voltage UL rated, in-wall cabling is used to connect the ICS-6 to the following components

- IS-MDC-12
- ICS-KP12
- LEDS-L-2W

AC Power

The cables for mains supply, door switches, laser control etc. are usually fed to the unit through plastic trunking or 22mm diameter plastic conduit, and holes are required to be made in the case to accommodate the entry points. An electrician's conduit hole cutter is the ideal tool for this purpose. The conduit may be surface mounted or buried in the wall, and should be arranged to ensure that holes can be made in the enclosure in the required positions. If surface-mounted conduit is used the top and bottom faces of the case will usually be found to provide the most convenient entry points.

5.1 Mains In

(110V to 240V ac 50-60Hz)

The ICS-6 has a universal mains voltage input and does not need setting for different supply voltages.

It is recommended that a fused switched spur or equivalent is provided for the mains supply to the unit, fused between 3A and 8A, depending on the amount of additional equipment connected to the ICS-6. We recommend that a switched fused spur with neon indicator is provided. In all cases the supply must be protected by an overcurrent device not exceeding 8A.

Wire the incoming mains power to the following terminals on the narrow circuit board in the bottom of the case:

Live	-	L IN
Neutral	-	N IN
Earth	-	E

Interlock (Door Contact)

ICS-6

Select an unused Interlock connector J1-J4 (J10 on ICS-15).

Connect the red wire to an A terminal.

Connect the white wire to a B terminal.

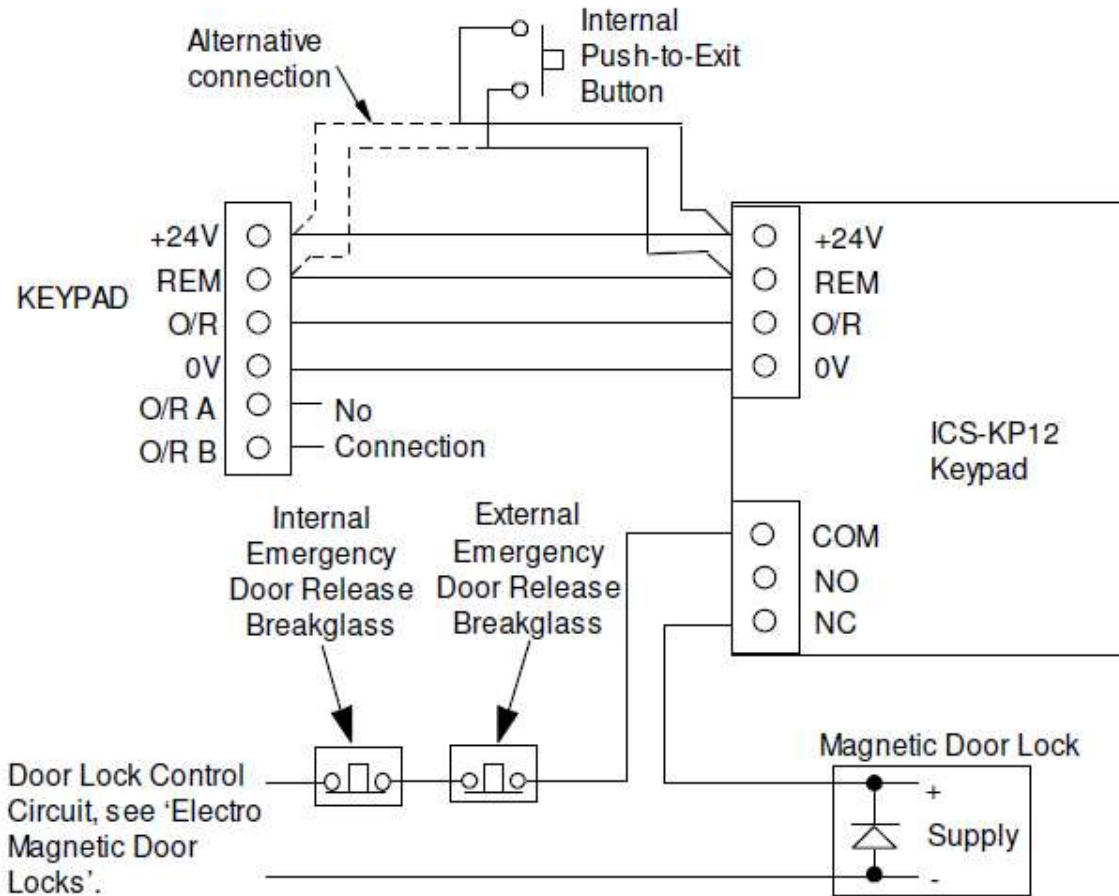
Connect the black wire to the other B terminal.

Connect the blue wire to the other A terminal.

The green and yellow wires are not used on ICS-6 and ICS-15.

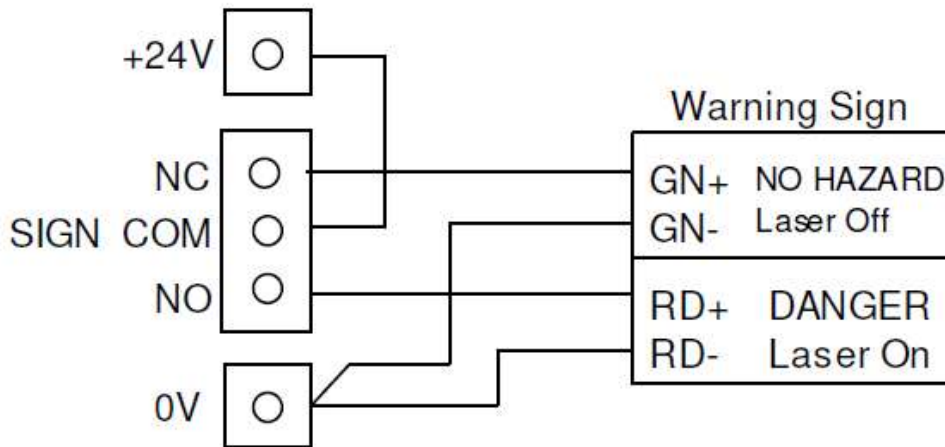
Cabling

It is usual to use low voltage 4-core flexible cable for these connections and Lasermet can supply suitable cable in standard pvc or low smoke zero halogen (LSZH) types.



Option 3 Two way Illuminated Warning Sign

The first warning sign will come on when the ICS-6 mains switch is turned on. The first warning sign will go off and the second warning sign will come on when the 'Arm Laser' button is pressed. Note that in the case of the Lasermet Miniature Warning Sign, both indications are displayed in the same unit.



If there are a large number of signs the ICS-6 internal power supply may be insufficient. The maximum total load that may be placed on the internal power supply is 2A, which includes any other equipment being run from the 24V supply, such as door locks, shutters etc.

In such cases the signs may be run from a separate power supply. The mains input of this power supply is connected to the L OUT and N OUT terminals of the mains terminal block J9. The PSU output is fed through the sign control terminals to operate the signs. Please contact Lasermet for suitable power supplies and assistance.

Overview - Items in the red boxes are not included in this sample install.

