The ICS-5 Laser Interlock System is the most popular Laser Interlock Control System designed and manufactured by Lasermet.

Supplied in a small, attractive enclosure, it has a simple, easy-to-use control panel which can be wired directly to 4 interlocks or groups of interlocks.

The ICS-5 complies with the relevant International Machinery Directive Standards - in particular EN954-1 & EN13849-1 (Safety related control systems).

The ICS-5 functions include the following:

- Interlocked main/AC wall electricity
- Interlocked low voltage supply for beam shutters
- Laser interlock connector operators
- Key-switch operation to prevent unauthorised use
- Arm laser button
- Time limited fail-safe override option
- Automatic switching of illuminated signs
- Emergency stop circuit

Can be configured as a locking or non-locking interlock system

- Automatic fault detection and shutdown
- LED indication for interlock switch status; reset ready; system checked; override on
- Dual-redundant fail-safe circuitry

Additional Functions:

- Can be used as a local laser controller as part of a larger system, which may be controlled by a master ICS-5.
- Optional safety status and ready status outputs can be provided to communicate with other Lasermet interlock controllers or a remote indicator panel
- Surface-mounted, the ICS-5 has a “deep option” for safety contactors for switching high power or multiple lasers.
- External facility to allow the system to be disabled by an external source e.g. supervisor’s keyswitch
- Operation of main/AC wall electricity or low voltage signs
- Integrated automatic switching of dual mode signs

Warning Sign Options

The ICS-5 can be used with standard main/AC wall electricity powered signs (e.g. Lasermet’s Slim Jim AC Powered LED sign), or with Lasermet’s 24 V DC low voltage LED Signs – (the compact “Mini” range or the larger Ultra range). Automatic switching of single or dual mode signs is available.
Flexible Expandable System

Lasermet’s interlock controllers have earned a reputation as cost effective, reliable and highly flexible. The standard ICS-5 can be expanded to have 9 interlock outputs by adding the IB9 interlock board. And by using the deep back box, contactors can also be added to give interlocked 32A single phase and 3 phase AC Powered ICS-5 can be connected to other Lasermet interlock controllers operate as master or slave unit.

Another common variation is to have an interlocked enclosure within a laboratory with a key switch to change between lab interlocked and enclosure interlocked modes. Less common but equally possible, labs can be split with a divider laser curtain or partition, and then operated in single or double lab mode.

<table>
<thead>
<tr>
<th>ICS-5</th>
<th>ICS-5 + IB9 Enhancement</th>
<th>ICS-5 + IB9 + Contactor Enhancement</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Interlocked outputs</strong></td>
<td>3 x outputs (rated at 6A at 250 VAC / 50 VDC)</td>
<td>8A at 250 VAC / 50 VDC)</td>
</tr>
<tr>
<td></td>
<td>Configure as desired eg. 1 Interlocked AC output (6 A)</td>
<td>Configure as desired eg. 1 Interlocked AC power output (8 A)</td>
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<tr>
<td></td>
<td>1 Interlocked shutter output (for up to 4 shutters)</td>
<td>1 Interlocked shutter output (for up to 6 shutters)</td>
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<tr>
<td></td>
<td>1 Interlock connector operator</td>
<td>7 Interlock connector operators</td>
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**Door interlock switches**

Unlimited numbers can be connected
Monitoring available for 4 switches or groups of switches

**Warning light output**

230V or 24 VDC, 1A. Automatic switching of single or dual message signs

**Emergency Stops**

Unlimited numbers of emergency stops can be connected
Can be connected into Fire Alarm or access control system

**Supply:**

230 V / 110 V, 1A + connected load

**Size**

10.4 w x 9.1 h x 3.4 inches deep

10.4 w x 9.1h x 3.4 inches deep

10.4 w x 9.1 h x 3.4 inches deep

**Weight**

4.4 lb

4.8 lb

6.6 lb

**Directives**


**Standards**

Meets EN954-1 & EN13849-1 (Cat 3 safety system), EN61508 (SIL 4), EN61010, EN60947-1

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