

## Information Required for Designing & Quoting Interlock Systems

- 1 Type of room to be interlocked (eg Laboratory, Operating Room etc)
- 2 Locking or non-locking system required (non-locking system is normal configuration; locking system used where interruption of the laser process is undesirable – eg operating rooms, production processes, long experiments )
- 3 Number of doorways
- 4 How many doors are double doors, how many single doors
- 5 Are any doors double action (ie swing both inside and outside the room – normally it can be assumed that there aren't any double action doors)
- 6 Are overrides required on the doors (for authorized entry and exit without interrupting the laser)
- 7 Are any emergency stop pushbuttons or breakglasses required (emergency stop / door release breakglasses are always fitted on locking systems for reasons of emergency access)
- 8 Which interface(s) to the laser is / are to be used (available interfaces – external beam shutter, interlock connector operator, interlocked mains supply – all available simultaneously)
- 9 If interlocked mains supply is to be used what is the max current required (in particular is it likely to be more than 6 A). Is this single or three phase.
- 10 If beam shutters are to be used, what is the output power of the laser(s) (in particular do any of the lasers exceed 20 W average output).
- 11 How many lasers are to be interlocked in this room.
- 12 Any special requirements.
- 13 Number and dimensions of windows to be interlocked using laser blocking blinds.
- 14 Approximate size of room.