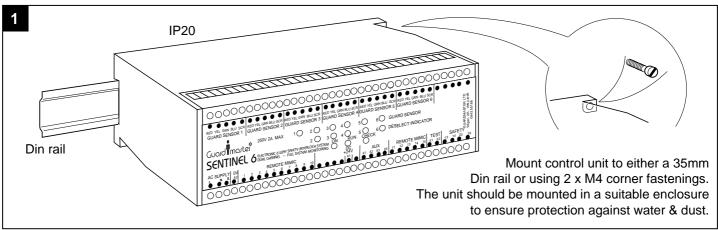
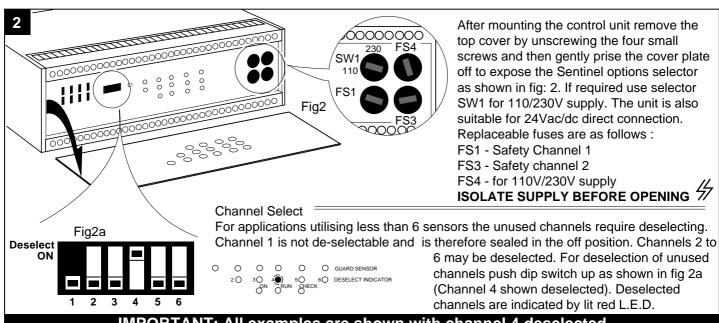


High Integrity, Multi Access Machine Guard Control System

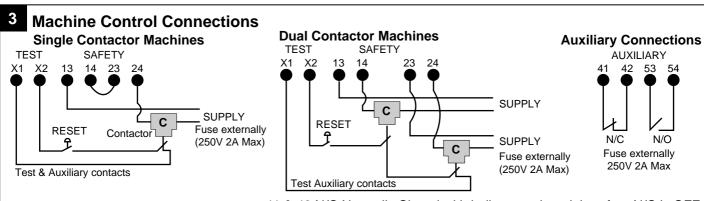
INSTALLATION INSTRUCTIONS

The Sentinel 6 system has a control unit designed to monitor the status of up to 6 guard door sensors, and a safety relay monitoring unit (with forced guided contacts) to control the machine. The control unit uses the latest high reliability electronic technology to constantly check the system condition and shut the machine down in the event of a guard being opened or a component failure. In addition the control unit includes a machine contactor monitoring circuit, to ensure that the machine reverts to a safe state should one of the machine contactors fail to open. The unit features a channel select function which enables unrequired guard sensor inputs to be easily deselected for small machines or for troubleshooting maintenance functions. The status of each channel is clearly indicated on the unit. (Note in accordance with the requirements of BS 6491 the unit & its de-select function should only be available to authorised personnel.) An optional mimic board which displays the control unit, sensors and machine status is also available. The sensors feature the unique patented ferroresonant code, which gives a switching tolerance distance of 10mm and is immune to interference & virtually impossible to defeat. The sensors are sealed to IP67 (submersible) and the actuator features a "moulded in" mounting bracket. The complete system has undergone EMC and failure mode effect analysis and meets or exceeds all current standards in this respect.

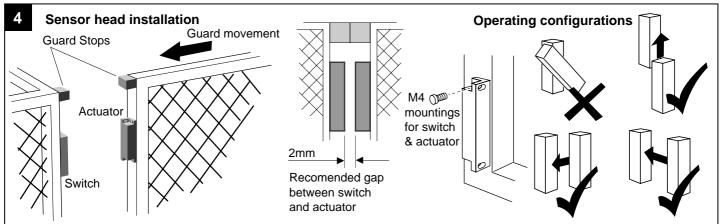




IMPORTANT: All examples are shown with channel 4 deselected

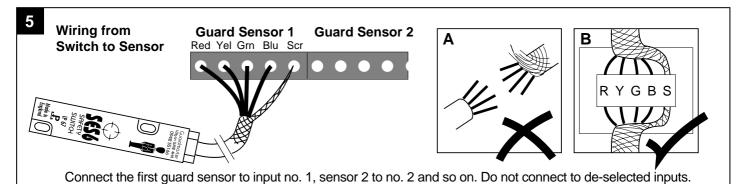


41 & 42 N/C Normally Closed with indicator unit and therefore N/C is OFF. 53 & 54 N/O Normally Open will indicate machine is ON



The Sentinel sensor and actuator are mounted by M4 Resistorx anti-tamper screws (supplied). The switch and actuator MUST NOT touch and a gap of **2mm** is recommended. If necessary guard stops should be used.

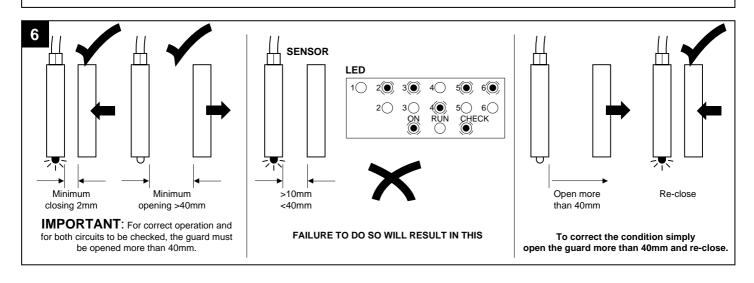
Actuator movement should be as shown above.

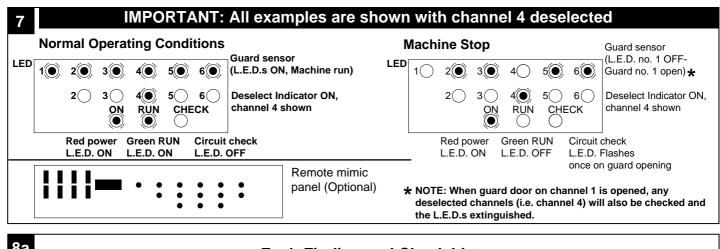


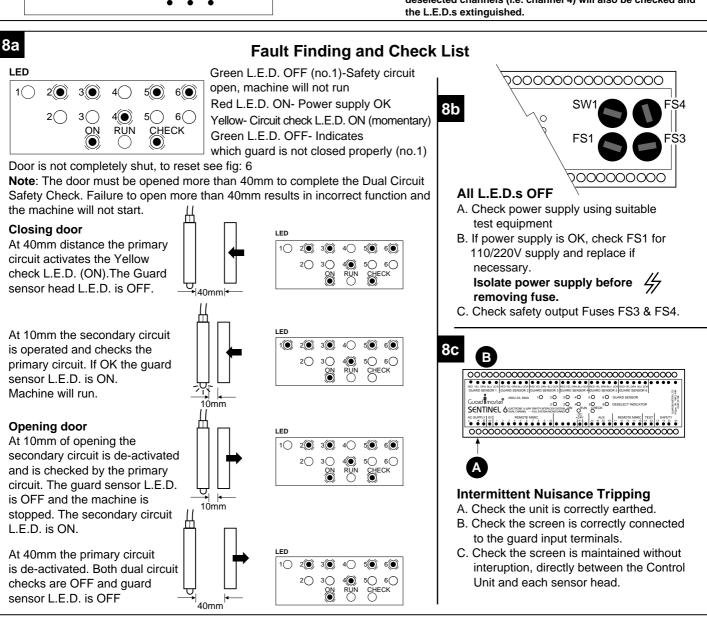
Connect all 5 cores including the screen. The screened cable prevents interference and nuisance tripping.

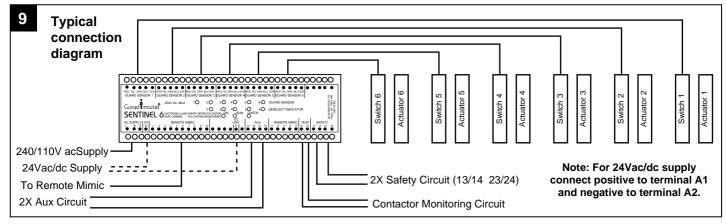
Under **NO** circumstances should the cable be connected to unscreened cable, fig: A.

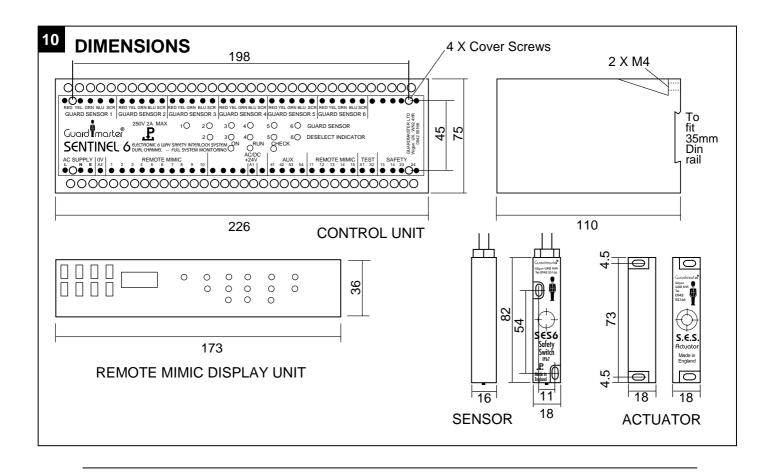
Extensions to the cable may be achieved by termination in a suitable housing (metal or plastic) and using suitable screened cable. Continue the screen but **do not** earth to the box, fig: B.











TECHNICAL SPECIFICATIONS

Control Unit

Supply Voltage: 240/110Vac, 24Vac/dc Safety Contacts: 2 x N/O volt free 250V 2A Auxiliary Contacts: 250Vac/dc 2A max 1 x N/O, 1 x N/C

Mounting: Any position Temperature rating: -10°C to +55°C

perature rating: -10°C to +55°C Case: Polycarbonate

Protection: IP 20

Fixing: 35mm Din rail mounting or 2 x M4

Safety Sensors

Operating distance: Make 10mm - break 12mm Misalignment tolerance: Make ±6mm (12mm total) Break ±10mm (20mm total)

Temperature rating: -10°C to +55°C

Case: Moulded ABS (red)

Protection: IP 67

Cable: Pre wired 5m 4 core screened

7/0.2mm(0.22mm²)
Core/screen capacitance
(nominal) 160pF per m.

Fixing: M4 x 20 tamper resistant (supplied)

No. of operations: $> 10 \times 10^6$

NOTE: Sensor/Actuator will work with previous control unit models (ie. Sentinel 4 & 4+) but previous sensor/actuators pt. no. 15007 will **NOT** work with the Sentinel 6 control unit due to the modifications required for the latest EMC approval.

AUDIN Composants & sytèmes d'automatisme

ORDERING INFORMATION

Sensor &

Control Unit: Pt. no. 15036

Actuator: Pt. no. 15035

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