

NSI SYSTEMS SILVER

BS 4737 INSPECTION CHECKLIST

This checklist is for the use of the NSI Systems Silver Inspectorate when inspecting intruder alarm systems installed to BS 4737 by Systems Silver approved companies. Deviation points may be given for non-compliance with those clauses of BS 4737 listed here, but to which no specific reference has been made in the text of this checklist.

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| BS 4737 / NSI SYSTEMS SILVER CHECK LIST | | | | |
|---|----------|----------|--|---------------|
| CLAUS | E | CODE | DEVIATION | DOINTS |
| CLAUS | E | CODE | | POINTS |
| Dag | . 12 | A 1 | <u>A. DOCUMENTATION</u> | 1 |
| 1/86 | : 15 | | Correct Certificate not issued within one month. | 1 |
| 1/00 | · 5.2.4 | A2 A3 | System Record enois/offissions. | 1 |
| 4.1/0/ TECH R | 2FOS: 13 | | No system log book supplied: no handover checklist and/or customer | 1 |
| ILCIIN | EQ5. 15 | 714 | signature on completion certificate | 1 |
| 1/86 | : 10 | A6 | Installer's name and B.S. number not on system record. | 0 |
| 1,00 | | | B. SYSTEM REOUREMENTS | Ŭ |
| 1/86 | · 3 1 1 | B1 | System does not meet basic requirements | 2 |
| 1/86 | · 3 1 2 | B2 | Audible Alarm omitted without written agreement with the customer | 2 |
| 1,00 | | | C. HOUSING | |
| 1/86 | · 3 2 1 | C1 | Not suitable material | 2 |
| 1/00 | . 3.2.1 | C^2 | Tamper detection not fitted | 2 |
| | | C3 | Not firmly secured. | 1 |
| | | | D. TAMPER DETECTION | _ |
| 1/86 | · 3 2 2 | D1 | Alarm not generated and signalled when tamper operated | 2 |
| 1,00 | . 3.2.2 | D2 | When unset, audible indication not given of tamper. | $\frac{1}{2}$ |
| | | | When audibles inhibited, able to set system with tamper present, not | |
| | | | manually inhibited by secure means. | |
| | | | E. ENVIRONMENT PRECAUTIONS | |
| 1/86 | : 3.2.3 | E1 | Failure to operate under permitted environmental conditions. | 1 |
| | | | F. CIRCUIT INTERCONNECTIONS | |
| 1/86 | : 3.3.2 | F1 | Cable security does not comply | 2 |
| 1,00 | 101012 | | (i.e. not double pole or will not detect o/c or s/c). | _ |
| | | | If unset, tampering to give local audible warning. | |
| 1/86 | : 3.3.3 | F2 | Not of suitable size for load; run in mains trunking or conduit without | 1 |
| | | | segregation. | |
| 1/86 | : 3.3.1 | F3 | Electronic detectors and/or processors not individually indicating. | 1 |
| 1/86 | : 3.3.4 | F4 | Wiring joints not electrically and mechanically sound; inadequately | 1 |
| | | | protected for insulation. | |
| 1/86 | : 3.3.5 | F5 | Unsuitable flexible connections. | 1 |
| 4.1/87 | : 4.1.3 | F6 | Wiring not adequately supported; cable entries and conduit ends not | 1 |
| 0.00/0.6 | | | bushed. No cable identification. | |
| 3.30/86 | :1 | F/ | Cables not suitable for external use without additional protection. | 1 |
| 1/07 | 2.4 | C1 | C. STSTEM POWER | 2 |
| 1/80 | : 3.4 | GI | failure to create alarm condition when system voltage reduced; able to set | 2 |
| | | | H AUDIRI E SVSTEM DEOLIDEMENTS | |
| | | | 1. Concrol | |
| 1/00 | . 4 1 | 111 | | 1 |
| 1/80 | :4.1 | HI | Agreed setting/unsetting procedures not provided. | 1 |
| 1/07 | 1.2 | 110 | 2. Setting/Offsetting Procedures | 2 |
| 1/80 | :4.2 | H2 | a. Not initiated at control equipment or ancillary C.E. | 2 |
| 4.1/07 | . 3.4.3 | | c. Unsetting at control againment not by secure means | |
| | | | d Agreed setting or unsetting procedure creates alarm condition | |
| | | | e No audible indication throughout exit route and immediately | |
| | | | outside final exit. | |
| | | | 3. Isolation of Circuits | |
| 1/86 | : 4.3 | НЗ | a. Not by secure means. | 2. |
| | | | b. Attempt to set isolated part in alarm condition results | |
| | | | in alarm being signalled. | |
| | | | 4. Operation | |
| 1/86 | : 4.4 | H4 | Audible alarm not given within 5 secs of alarm condition occurring. | 2 |
| | | 1 | J. REMOTE SYSTEM REQUIREMENTS | |
| | | 1 | 1. General | |
| 1/86 | : 5.1 | J1 | Agreed setting/unsetting procedures not provided. | 1 |
| | | | 2. Setting | |

| 1/86 | : 5.2.1 | J2 | a. Not initiated at control equipment (if not in conjunction | 2 |
|----------|------------------------|------------|---|---|
| | | | with central station). | |
| | | | b. Completion requirements not complied with. | |
| | | | c. No audible indication throughout exit route and | |
| 1/06 | .522 | 12 | immediately outside final exit. | 2 |
| 1/80 | : 5.2.2 | 13 | in conjunction with C.S procedure not agreed in writing - no indication at | 2 |
| 1/96 | .522 | IA | Setting may be completed with a detector in alarm condition or when | 2 |
| 1/80 | : 3.2.5 | J4 | system requires resetting after an alarm is signalled | 2 |
| 1/86 | .573 | 15 | Alarm condition signalled when correct procedure is followed | 2 |
| 1/80 | . 5.2.5 | J 5 | A line condition signalied when correct procedure is followed. | 2 |
| 1/06 | . 5 2 1 | IC | <u>S. Olisetunig</u> | 2 |
| 1/80 | : 5.3.1 | 10 | a. Not initiated by entry route device; completion not at | 2 |
| | | | does not generate alorm | |
| | | | h Alarm conditions generated in circuits other than entry/exit | |
| | | | route do not give audible indication within 5 secs | |
| | | | c Alarm condition generated in circuits other than entry/exit | |
| | | | route results in Remote Signalling being initiated | |
| | | | d No audible indication that system requires unsetting | |
| | | | e. Failure to complete unsetting procedure does not create a | |
| | | | full alarm condition | |
| 1/86 | : 5.3.2 | .17 | In conjunction with central station, procedures not agreed in writing | 2 |
| | | | No indication of completion at premises. | _ |
| | | | 4. Isolation of Circuits | |
| 1/86 | · 5 4 | 18 | a Circuit(s) isolated during set period not achieved by | 2 |
| 1/00 | | 30 | secure means. | 2 |
| | | | b. Resetting of isolated parts create an alarm condition if fault | |
| | | | or alarm conditions exits. No indication of failure to reset. | |
| | | | c. When isolated parts occupied during set period, may be local | |
| | | | only alarm for up to 5 mins. Full alarm within 5 secs if not | |
| | | | unset after this period. Selected only during setting. | |
| | | | 5. Reset Facilities | |
| 1/86 | .55 | 19 | Subscriber has facility to reset system after a full alarm condition contrary | 1 |
| 1/00 | . 5.5 | 59 | to Local Police Force Policy where engineer reset is mandatory | 1 |
| | | | L CONTROL FOLIPMENT | |
| | | | 1 Location and Housing (including RKP) | |
| 1/06 | . 6 1 | T 1 | <u>1. Electron and Housing (including KKF)</u> | 2 |
| 1/00 | .0.1 | | Housing not in compliance 2.2.1 | 2 |
| 1/80 | : 0.2 | L2 | Rousing not in compliance 5.2.1. | 2 |
| 1/00 | . 0.5 | LS | a. Frocessing equipment not within protected premises if not | 2 |
| | | | b Processing equipment not provided with temper detection when | |
| | | | not within control equipment | |
| 4 1/87 | .333 | Ι4 | Directly visible from outside protected premises: inadequate access for ease | 1 |
| 4.1/07 | . 5.5.5 | LT | of use | 1 |
| | | | 2 Circuit Identification | |
| 1/86 | · 6 / | IA | a Each circuit (excent E/Exit) not given separate indication | 1 |
| 1/00 | . 0.4 | LU | of alarm condition during setting/unsetting | 1 |
| | | | b. If more than one electronic detector on a circuit devices | |
| | | | not individually indicating and latching | |
| 1/86 | ·64 | 1.0 | No audible and/or visible indication of alarm condition present when | 0 |
| (Note 1) | . 0. .) | | setting unsetting or testing the system | 0 |
| 1/86 | , .65 | 1.7 | No visible indication that system in alarm and requires resetting | 1 |
| 1/86 | · 6 5 | 18 | Indications present during set periods | 0 |
| (Note) | . 0.5 | LO | indications present during set periods. | 0 |
| (1,000) | | | 3. Alarm Conditions | |
| 1/86 | ·66 | I 10 | Alarm condition not signalled within 5 seconds | 2 |
| 1/00 | • 1 1 1 | I 11 | Warning device cut-out not programmed for 20 minutes or less if | |
| 4.1/0/ | . 4.4.1 | | specifically required | 1 |
| | | _ | M POWER SLIPPI IES | |
| | | | I Canaral | |
| 1/0 5 | 7.0.1 | 7.51 | | |
| 1/80 | : 1.2.1 | MI | battery not capable of providing at least 8 hours standby supply | 2 |

| 1/86 | : 7.2.1 | M2 | Mains supply not permanently connected (i.e. plug and socket or switched supply); fuse not suitably rated; spur not solely for alarm use and not co- located with CE | 1 |
|--------|---------|------|---|---|
| | | M3 | Battery installation date not marked. | 0 |
| | | M4 | Unsuitable battery connections. | 1 |
| | | | 2. Location and Housing | - |
| 1/86 | : 7.3 | M5 | Container not complying with 3.2.1 (not applicable to P.S.U.s for sensors). | 2 |
| 1/86 | :7.3 | M6 | Interconnections between control equipment and its power supply (when | 1 |
| | | - | separated) not physically protected. | |
| 4.1/87 | : 4.6.2 | M7 | Battery installation not suitably restrained. | 1 |
| | | | 3. Mains Segregation | |
| 4.1/87 | : 4.1.3 | M8 | Mains cables not segregated from all other extra low voltage (elv) alarm cables/printed circuit boards within the control equipment. | 1 |
| | | | N. WARNING DEVICES | |
| | | | <u>1. External</u> | |
| 1/86 | : 8.2.1 | N1 | a. Housing does not comply with 3.2.1. | 2 |
| | | | b. Removal from building will not be detected. | |
| 1/0.6 | | | c. Projections that facilitate attachment of chains etc. | |
| 1/86 | : 8.2.2 | N2 | a. Does not satisfactorily sound in response to an alarm condition. | 2 |
| 1/86 | .824 | N3 | b. Duration mining device not reset when system is reset. | 2 |
| 1/80 | . 0.2.4 | 113 | battery. | 2 |
| 1/86 | : 8.2.5 | N4 | a. Does not sound when tampering is detected or when its | 2 |
| | | | charging supply fails. | 1 |
| | | | by the control equipment | 1 |
| 1/86 | : 8.2.3 | N5 | Not securely mounted to a rigid surface and/or not at an adequate height. | 1 |
| 1/86 | : 8.2.3 | N6 | External interconnecting wiring outside protected premises not physically | 1 |
| | | | protected. | |
| | | | 2. Internal | |
| 1/86 | : 8.3.1 | N7 | Separate from control equipment; housing does not comply with 3.2.1. | 2 |
| 1/86 | : 8.3.2 | N8 | a. Does not satisfactorily sound in response to an alarm condition. | 2 |
| | | | b. Sound level/distinction does not comply; duration limiting | 1 |
| 1/07 | | | device not reset when system is reset. | |
| 1/86 | : 8.3.4 | N9 | Battery of inadequate capacity; short cct. of charging supply will discharge hattery | 2 |
| 1/86 | · 8 3 5 | N10 | a Does not sound when tampering is detected or when its | 2 |
| 1,00 | . 0.5.5 | 1110 | charging supply fails. | - |
| | | | b. Operates other than when an alarm condition is signalled by | 1 |
| | | | the control equipment. | |
| 1/86 | : 8.3.3 | N11 | Not securely mounted and/or in a position where it can be easily attacked. | 1 |
| 4.1/87 | : 4.4.2 | N12 | Not sited to give maximum effect. | 1 |
| | | | P. REMOTE SIGNALLING | |
| | | | <u>1. General</u> | |
| 4.1/87 | : 3.4.5 | P11 | Cables between CE and signalling equipment not mechanically protected. | 2 |
| 1/07 | | | 2. Automatic Dialling Equipment | |
| 1/86 | : 9.1.1 | Pl | Not within protected premises; housing not in compliance with 3.2.1. | 2 |
| 1/86 | :9.1.2 | P2 | Rechargeable battery not housed within container; not automatically recharged; not protected from discharge if charging means is short | 2 |
| | | | circuited. | |
| 1/86 | :9.1.3 | P3 | a. Does not initiate operation within 5 secs of alarm; possible to | 2 |
| | | | interrupt transmission if condition is removed. | |
| | | | b. If audible delay, line not monitored for fault, off hook or | |
| | | | c. Audible delay not overridden in set condition if telephone line | |
| | | | is cut. | |
| 1/86 | : 9.1.3 | P4 | Note: B.T. line not ex-directory or incoming calls barred. | 0 |
| 4.1/87 | : 4.4.3 | P5 | B.T. connection not in vicinity of signalling equipment. | 0 |
| | | | 3. Digital Communicator | |
| 1/86 | : 9.2.1 | P1 | Not within protected premises; housing not in compliance with 3.2.1. | 2 |

| 1/86 | : 9.2.2 | P2 | No rechargeable battery and charging means which will allow at least 5 transmissions; not automatically recharged; not protected from discharge if | 2 |
|--------|-----------|-----|--|---|
| | | | charging means is short circuited. | |
| 1/86 | : 9.2.3 | P6 | a. If bell delayed, line not monitored for fault, off hook or | 2 |
| | | | ringing in. | |
| | | | b. Does not operate within 1 sec. of alarm condition; possible to | |
| | | | interrupt transmission if condition removed. | |
| | | | c. Audible delay not overridden in set condition if telephone line | |
| | | | is cut. | |
| 1/86 | : 9.2.3 | P7 | B.T. line not monitored continuously and indication not given. | 0 |
| (Note) | | | | |
| | | P4 | Line not incoming calls barred or ex-directory. | 0 |
| 4.1/87 | : 4.4.3 | P5 | B.T. connection not in vicinity of signalling equipment. | 0 |
| | | P9 | Communicator not earthed in accordance with manufacturer's requirements. | 1 |
| | | | 4. Direct Line/Other | |
| 1/86 | : 9.3.2 | P1 | If not in control equipment, housing not in compliance with 3.2.1. | 2 |
| 1/86 | : 9.3.1 | P8 | Equipment not complying with BS 5979. | 2 |
| 1/86 | :7 | P10 | Power supply does not comply. | 1 |
| | | | R. DETECTION DEVICES | |
| | | | 1 Continuous wiring (D A C W or in Tube and Batten Frames) | |
| / 1/87 | . 1 2 2 2 | R1 | Space between adjacent wires in excess of 100 mm; wire not fixed at 600 | 1 |
| 4.1/07 | . 4.2.2.2 | KI | mm maximum intervals with corrosion resistant staples | 1 |
| / 1/87 | .1223 | R2 | Tube length in excess of 1 metre: tube spacing in excess of | 1 |
| 4.1/07 | . 4.2.2.3 | K2 | 100 mm; wire not fixed within 50 mm of entry/exit to each tube: | 1 |
| | | | anchor points not extended to building fabric: wiring supports may be | 1 |
| | | | moved in excess of 50 mm without causing alarm condition: continuous | 1 |
| | | | throughout the frame. | |
| 4.1/87 | : 4.2.2.2 | R3 | Wiring not given physical protection. | 1 |
| 4.1/87 | : 3.4.4 | R4 | Wiring not continuously monitored: fault indications not audibly and | 1 |
| | | | visually indicated at control equipment. | - |
| | | | 2. Foil on Glass | |
| 3.2/77 | : 5 | R5 | Foil width greater than 12.5 mm: | 1 |
| 3.2/77 | :6 | | Foil carried across cracks or butt joints of unframed glass panels. | - |
| 3.2/77 | :7 | | foil not made off with purpose made connectors; connectors at junction of | |
| | | | glass and frame; on unframed glass doors, connectors placed more than 100 | |
| | | | mm from door edge. | |
| 3.2/77 | : 8 | R6 | Foil pattern not in conformity with criteria; | 1 |
| 4.1/87 | : 4.2.3 | | not suitably protected (varnished). | |
| | | | Foil strips not continuous. | |
| 4.1/87 | : 3.4.4 | R4 | Not continuously monitored; no fault indication at control equipment. | 1 |
| | | | 3. Protective Switches | |
| 4.1/87 | : 4.2.4 | R7 | No alarm condition with a clear opening in excess of 100 mm. | 2 |
| 4.1/87 | : 4.2.4 | R8 | All connections not made off within its enclosure; | 1 |
| | | | connections not obscured from view. | |
| 4.1/87 | : 3.4.2 | R30 | More than 10 sensors on one circuit. | 1 |
| | | | 4. Microwave Detectors | |
| 3.4/78 | : 8 | R9 | No alarm condition if power is lost or reduced below operational level. | 2 |
| | | | Does not generate an alarm when the system is set. | |
| 3.4/78 | :11 | R10 | Removal of case not detected; adjustment means not contained within the | 2 |
| | | | detector container; interconnections not electrically protected. | |
| 3.4/78 | : 5.1 | R11 | Area or volume of coverage not identified in system record. | 1 |
| 3.4/78 | : 5.2 | R12 | Walk test facility not available to subscriber. | 1 |
| 4.1/87 | : 4.2.9.1 | R13 | Not provided with 7 days test before connecting to remove signalling. | 1 |
| 4.1/87 | : 4.2.9.3 | R14 | Environmental problems not accounted for without suitable processing, i.e. | 1 |
| | | | directed at reflective surfaces; sited close to fluorescent lighting; located so | |
| | | | that a possibility of interference may be encountered, etc. | |
| | | | 5. Ultrasonic Detectors | |
| 3.5/78 | : 8 | R9 | No alarm condition if power is lost or reduced below operational level. | 2 |
| | | | Does not generate an alarm when the system is set. | |
| 3.5/78 | :11 | R10 | Removal of case not detected; adjustment means not contained within the | 2 |
| | | 1 | detector container. Interconnections not electrically protected. | |

| 3.5/78 | : 5.1 | R11 | Area or volume of coverage not identified in system record. | 1 |
|-----------|----------------|-------------|--|---|
| 3.5/78 | : 5.2 | R12 | Walk test facility not available to subscriber. | 1 |
| 3.5/78 | :7 | R13 | Not provided with 7 days test before connecting to remote signalling. | 1 |
| 4.1/87 | : 4.2.9.2 | R14 | Sited adjacent to equipment, which may produce ultrasonic noise, i.e. steam | 1 |
| | | | pipes, rotating machinery, bells etc., without suitable processing. | |
| | | | <u>6. Acoustic Detectors</u> | |
| 3.6/78 | :6 | R15 | Will not create an alarm condition when a sound equalling or exceeding | 2 |
| | | | trigger levels lasts for longer than 5 secs in any 30 secs period. | |
| 3.6/78 | :7 | R9 | No alarm condition if power is lost or reduced below operational level. | 2 |
| 0.4/20 | 10 | | Does not generate an alarm when the system is set. | |
| 3.6/78 | : 10 | R16 | Removal of case not detected; adjustment can only be achieved by | 2 |
| | | | movement of the device on its mounting. | |
| 4.4.10= | | 515 | For break-glass detectors:- | |
| 4.1/87 | : 4.2.6 | R17 | More than 10 devices/circuit or processor; acoustic path between glass and | 1 |
| | | | detector obstructed (applicable only to system design). | |
| 0 = 1 = 0 | | | /. Passive infra-ked Detectors | |
| 3.7/78 | :7 | R9 | No alarm condition if power is lost or reduced below operational level. | 2 |
| 2 7/70 | . 10 | D10 | Does not generate an alarm when the system is set. | 2 |
| 5.7/10 | : 10 | K10 | detector container interconnections not electrically protected | 2 |
| 3 7/78 | • 4 1 | D11 | Area or volume of coverage not identified in system record | 1 |
| 3.7/78 | . 4.1 | R11 R12 | Walk test facility not available to subscriber | 1 |
| 37/78 | · 6 | R12 R13 | Not provided with 7 days test before connecting to remote signalling | 1 |
| 4 1/87 | · 4 2 9 4 | R13 | Detector sited such that it may be affected by environmental factors i e air | 1 |
| 4.1/07 | . 4.2.9.4 | 1(17 | movement, sunlight, automatically controlled heating/cooling equipment | 1 |
| | | | etc. | |
| | | | 8. Pressure Mats | |
| 3.9/78 | :6 | R18 | a. Closed circuit device (rare) not connected into a monitored | 1 |
| | | | "double pole" circuit. | _ |
| | | | b. Open circuit device (common) not connected into a monitored | |
| | | | "double pole" circuit within the mat. | |
| 4.1/87 | : 4.2.7 | R19 | Not firmly secured to a firm, flat surface; not suitably covered and/or | 1 |
| | | | outline visible; inadequate provision to protect connections from damage. | |
| | | | 9. Vibration/Inertia Detectors | |
| 3.10/78 | :7 | R9 | No alarm condition if power is lost or reduced below operational level. | 2 |
| | | | Does not generate an alarm when the system is set. | |
| 3.10/78 | :10 | R10 | Except when fitted directly to glass, no tamper detection to lid; may be | 2 |
| | | | adjusted without removing lid; connections not within container. | |
| 3.10/78 | :5 | R11 | Type of attack not declared and/or area of coverage not identified in system | 1 |
| 2.10/70 | | D12 | record. | 1 |
| 3.10/78 | :0 | R13 | Not provided with / days test before connecting to remote signalling. | 1 |
| 4.1/8/ | : 4.2.5 | K1/ | processor: processor does not give latching indication | 1 |
| 1 1/87 | . 1 2 5 | R 14 | Fitted in locations where there is a strong possibility of high ambient | 1 |
| 4.1/07 | . 4.2.3 | K14 | vibration expansion doors in frequent use | 1 |
| | | | 10 Beam Interruption Devices | |
| 3 12/78 | • 7 | Rð | No alarm condition if power is lost or reduced below operational level | 2 |
| 5.12/70 | . / | R) | Does not generate an alarm when the system is set | 2 |
| 3.12/78 | : 10 | R10 | Removal of lid not detected: adjustments not contained within container: | 2 |
| 0112/0 | | 1110 | connections not within container. | - |
| 4.1/87 | : 4.2.8 | R20 | Where two sets of beam detectors are connected in parallel, system will set | 2 |
| | | | with one of the beams obstructed; individual units not able to reset | |
| | | | automatically. | |
| 4.1/87 | : 4.2.8 | R21 | a. Transmitters and receivers not rigidly secured to a firm | 1 |
| | | | supportive structure; direct path only. | |
| | | | b. Equipment not provided with protection against mis-alignment | |
| | | | or physical damage. | |
| 4.1/87 | : 4.2.8 | R14 | Receivers located such that they may be affected by sunlight. | 0 |
| L | | | 11. Deliberately Operated Devices | |
| 3.14/86 | : 3.6 | R22 | Does not create alarm condition when operated within stated operating | 2 |
| 1 | | | force. | |

| 3.14/86 : 3.2 | R23 | Not of stated configuration (x, y or z); operating member not flush or recessed with respect to surrounding surface; if a latching device, will not remain in operated position until manually reset. | 1 |
|-----------------|-----|---|--------|
| 4.1/87 : 4.2.10 | R24 | Sited such that obvious body movement is required to operate device; device may be confused with other switching devices; cable to moveable mounting not sufficiently flexible (see also 3.3.5 : 1/86). | 1 |
| 4.1/87 : 4.2.10 | R25 | When signalled remotely, code not recognizable as coming from DOD. | 1 |
| 1/86 : 3.2.1 | R26 | Portable, wire free, DOD equipment: | |
| | | (a) Receiver housing not suitable material.(b) Tamper detection inoperable. | 2 2 |
| BS 6799 : 1986 | R27 | Message transmission interrupted when operating member released. | 2 |
| | R28 | Inadequate reception from within the specified area of cover. | 2 |
| | R29 | Interconnections between CE and receiver to be electrically and mechanically protected. | 2 |