

LEGEND

- ADDRESSABLE PHOTO-ELECTRIC FIRE DETECTOR (SMOKE DETECTION) INSTALLED UNDER CEILING/SOFFIT ET-
- ADDRESSABLE PHOTO-ELECTRIC FIRE DETECTOR (SMOKE DETECTION) - INSTALLED AT HIGH LEVEL
- ADDRESSABLE PHOTO—ELECTRIC FIRE DETECTOR (HEAT DETECTION) INSTALLED UNDER CEILING/SOFFIT ET
- ADDRESSABLE PHOTO—ELECTRIC FIRE DETECTOR (SMOKE DETECTION) USED FOR LIFT SHAFTS ETC
- ADDRESSABLE ALARM SIREN WITH FLASHING STROBE
- ADDRESSABLE BREAK GLASS UNIT.
- ADDRESSABLE FIRE CONTROL PANEL (4 LOOP)
  P (INCORPORATING BREAK GLASS UNIT, BUZZER,

Detector Spacing Requirements

POSITION OF DETECTORS AS SHOW ON DRAWING ARE FOR REFERENCE PURPOSES ONLY. FINAL POSITION OF DETECTORS ARE TO BE CONFIRMED ON SITE PRIOR TO INSTALLATION, ENSURING THAT ALL DETECTORS ARE NEATLY POSITIONED AND INSTALLED IN THE ROOMS (I.E. ASTHETICALLY CO-ORDINATED WITH ALL SERVICES), PLEASE TAKE THE FOLLOWING REQUIREMENTS/GUIDELINES INTO CONSIDERATION:

IN GENERAL, WHERE ONLY ONE DETECTOR IS REQUIRED IN A ROOM, THE DETECTOR SHOULD BE PLACED AS CLOSE TO THE CENTRE OF THE CEILING AS POSSIBLE. IF A CENTRE LOCATION IS NOT POSSIBLE, IT MAY BE PLACED NO CLOSER THAN

AVOID PLACEMENT NEAR FLUORESCENT LIGHT FIXTURES. THE DETECTORS MUST BE INSTALLED AT LEAST 300-500mm AWAY FROM LIGHT FIXTURES. PLACEMENT OF DETECTORS NEAR AIR-CONDITIONING/INCOMING AIR VENTS MUST BE AVOIDED. THE DETECTORS MUST BE INSTALLED NOT CLOSER THAN 1000mm AWAY FROM THESE SYSTEMS.

General Installation Notes

ALL FIRE DETECTION INSTALLATIONS TO COMPLY WITH SANS 10139 AND

. ENSURE THAT ALL COMPONENTS ARE INSTALLED AS PER MANUFACTURERS INSTRUCTIONS. . REFER TO THE DETAILED SPECIFICATION DOCUMENTATION FOR FURTHER INFORMATION, IF REQUIRED.

. FIRE DETECTION SPECIALIST TO ENSURE THAT THE INSTALLATION OF COMPONENTS IS CO-ORDINATED WITH OTHER SERVICE PROVIDERS TO PREVENT CLASHES. FIRE ALARM CONDUITS IN WALLS TO BE GALVANISED STEEL, ALL OTHER FIRE ALARM CONDUITS TO BE PVC. ALL CONDUIT INSTALLED BY ELECTRICAL CONTRACTOR.

FIRE CONTROL PANEL - ANALOGUE

ADDRESSABLE

1 - 4 LOOP (REFER TO DETAILED SPECIFICATION)

24 ZONES
COMPLETE WITH POWER SUPPLY
AND BATTERIES FOR 72 HOUR AUTONOMY.

MAX FLOOR AREA PER ZONE 2000 m<sup>2</sup>

FIRE DETECTION SYSTEM TO BE PROGRAMMED FOR 'SWITCH OFF' DURING WORKING HOURS ONLY (TO BE CONFIRMED)

BATTERY BACK-UP TO BE SUFFICIENCY TO MAINTAIN THE SYSTEM (INCLUDING 30 MINUTES FOR SIREN AND STROBE) FOR MINIMUM 72 HOURS

ALL DETECTOR CIRCUIT WIRING MUST BE PHYSICALLY SEPARATE FROM ALL OTHER CIRCUITS.

LINE ISOLATORS TO BE INSERTED INTO THE LINE/LOOP AT REGULAR INTERVALS (I.E. A LINE ISOLATOR AFTER EVERY 25 DEVICES)

(MAXIMUM LOOP LENGTH 1000 m)

A MAXIMUM OF x3 LOOP SOUNDERS ARE TO BE INSTALLED PER LOOP IF ADDITIONAL SOUNDERS ARE INSTALLED ON THE LOOP ENSURE THAT A

SEPERATE 24 VOLT SUPPLY IS PROVIDED.

ALL FIRE ALARM CONDUITS ARE TO BE CONNECTED TO THE WIREWAY TRUNKING (P8000) IN CEILING VOIDS.

(REFER TO ELECTRICAL DRAWINGS).

FIRE ALARM CONDUITS IN WALLS TO BE GALVANISED STEEL, ALL OTHER FIRE ALARM CONDUITS TO BE PVC. ENSURE PROPERLY SECURED WITH UPVC SADDLES EVERY 2 m.

ALL CONDUIT INSTALLED BY ELECTRICAL CONTRACTOR.

UNLESS OTHERWISE SHOWN, ALL FA OUTLET BOXES ARE STANDARD ROUND CONDUIT BOXES (60,3mm DIA TO SABS 162). INSTALLATION BY ELECTRICAL CONTRACTOR.

3.1) 75 X 75 BOXES SHALL BE STANDARD BRITISH SWITCH BOXES.

3.2) 150 X 150 BOXES SHALL BE 50mm DEEP

STANDARD ADAPTABLE BOXES.

. LOW-LEVEL MAGNETIC DOOR HOLD-BACK OUTLETS TO BE MOUNTED AT 750mm AFFL AND 150mm FROM END OF DOOR SWING, UNLESS OTHERWISE INDICATED.

REFER TO M&E SPACE DATA SHEETS FOR EXACT

DIMENSIONED LOCATION OF FIRE ALARM PANEL
AND ALARM POINT AT RECEPTION AREAS ETC/... (IF APPLICABLE)

ALL FIRE DETECTION EQUIPMENT/CONDUIT TO BE CO-ORDINATED

RELAYS TO BE INSTALLED AND CONNECTED TO FAN CONTROL

CONTACTORS IN EACH ELECTRICAL DISTRIBUTION BOARD. COMMUNICATIONS LINK TO BE ADDED TO LOCAL FIRE DEPARTMENT.

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BASEMENT & PLANTROOM FLOOR LEVEL FIRE DETECTION LAYOUT

N.T.S COL DJ JORDAAN