

PART 1 - GENERAL

- 1.1 RELATED REQUIREMENTS .1 Section 26 05 00 - Common Work Results for Electrical.
- 1.2 REFERENCES .1 Canadian Standards Association (CSA)
.1 CSA C22.1-09, Canadian Electrical Code, Part 1 (18th edition) Safety Standard for Electrical Installations.
- 1.3 DESCRIPTION .1 System to consist of alarm control panel, motion detectors and intrusion switches located at door to be supervised.
- 1.4 SHOP DRAWINGS .1 Submit shop drawings in accordance with Section 01 33 00.
- 1.5 WASTE MANAGEMENT AND DISPOSAL .1 Separate and recycle waste materials in accordance with Section 01 74 20.
.2 Remove from site and dispose of all packaging materials at appropriate recycling facilities.
.3 Collect and separate for disposal paper, plastic, polystyrene and corrugated cardboard packaging material in appropriate on-site bins for recycling in accordance with Waste Management Plan.
.4 Divert unused metal and wiring materials from landfill to metal recycling facility as approved by Departmental Representative.
.5 Fold up metal banding, flatten and place in designated area for recycling.
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PART 2 - PRODUCTS

2.1 CONTROL PANEL .1 Control panel: surface mounted with 32 supervised zone capacity, modular design. "Power on" light, "reset" key switch, "acknowledge button", common "trouble light, buzzer and silencing switch". Separate alarm lamp, trouble lamp and deactivating key switch for each zone and necessary modules, and relays as required for operation as indicated. Power supply from 120 V ac circuit with rectifier to supply 24 V dc to operate complete system. Standby power of gel cell batteries sized to provide supervisory and trouble signal current for 2 hours. Capable of differentiating between open line condition and alarm. Panel to display "trouble" conditions when fault occurs in wiring.

2.2 MAGNETIC DOOR SWITCHES .1 Door switches: suitable for surface and flush mounting on door as indicated; triple biased.

2.3 END-OF-LINE RESISTORS .1 Mount end-of-line resistors to control supervisory current in each circuit, in control panel.

PART 3 - EXECUTION

3.1 INSTALLATION .1 Install complete door supervision system as indicated and in accordance with manufacturer's instructions.

3.2 SEQUENCES OF OPERATION .1 System operation: when supervised door is opened, zone indicating lamp flashes and operates audible alarm at control panel. When "acknowledge" button is operated, audible signal is silenced and flashing light changes to steady glow.

.2 System restored to normal when door is closed and "reset" key switch on control panel operated.

3.2 SEQUENCES OF
OPERATION
(Cont'd)

- .3 When deactivating switch is operated, supervised door on that zone opened without causing alarm. Zone trouble lamp illuminated when zone is deactivated but audible trouble signal not to sound.
- .4 Fault in wiring of one zone to cause audible signal to sound even if zone in deactivated position.

3.3 SITE TESTS

- .1 Perform tests in accordance with Canadian Electrical Code.
- .2 Test system components in presence of Departmental Representative to ensure correct operation of system. On completion of tests, submit to Departmental Representative certificate listing components tested.