

PART 1 - GENERAL

- 1.1 SUMMARY .1 Section Includes:
- .1 Materials and installation for low voltage control system designed to provide remote switching of lighting loads by use of:
 - .1 Low voltage momentary contact switches.
 - .2 Manual switch control.
- 1.2 REFERENCES .1 Health Canada/Workplace Hazardous Materials Information System (WHMIS)
- .1 Material Safety Data Sheets (MSDS).
- 1.3 ACTION AND INFORMATIONAL SUBMITTALS .1 Product Data:
- .1 Submit manufacturer's printed product literature, specifications and datasheet in accordance with Section 01 33 00.
 - .2 Shop Drawings:
 - .1 Submit shop drawings in accordance with Section 01 33 00.
 - .3 Closeout Submittals:
 - .1 Submit maintenance data in accordance with Section 01 78 00.
 - .4 Quality assurance submittals: submit following in accordance with Section 01 33 00.
 - .1 Test reports:
 - .1 Submit certified test reports indicating compliance with specifications for specified performance characteristics and physical properties.
 - .2 Certificates: submit certificates signed by manufacturer certifying that materials comply with specified performance characteristics and physical properties.
 - .3 Manufacturer's Instructions: submit manufacturer's installation instructions.
- 1.4 DELIVERY, HANDLING .1 Packing, shipping, handling and unloading:
- .1 Deliver, store and handle in accordance with Section 01 61 00.
-

- 1.4 DELIVERY, HANDLING (Cont'd)
PART 2 - PRODUCTS
- .2 Waste Management and Disposal:
.1 Separate waste materials for reuse and recycling in accordance with Section 01 74 20.
- 2.1 MATERIALS .1 Control system: by one manufacturer and assembled from compatible components.
- 2.2 REMOTE CONTROL SWITCHES .1 Single pole, double throw, momentary contact, heavy duty, rated 5 A, 25 V, centre pivot rocker action.
- 2.3 LOW VOLTAGE RELAYS .1 Electrically operated by momentary impulse, mechanically latched until activated.
.2 Two coil solenoid type with one coil to close relay contacts and one coil to open relay contacts. Relay shall control one normally open contact.
.3 Operating voltage: 24 V, AC.
.4 Load contacts: 20 A, 120 V, AC.
.5 Coloured pre-stripped leads.
- 2.4 CONTROL TRANSFORMER .1 Low voltage power Class 2, input 120 V, AC, 60 Hz, output 35 VA at 24 V.
- 2.5 RECTIFIER .1 Silicon type: 24 V, AC, 60 Hz input, 20 A intermittent duty output.
- 2.6 MANUAL CONTROL .1 Single gang, almond coloured, wall mounted control switches as indicated.
-

PART 3 - EXECUTION

- 3.1 MANUFACTURER'S INSTRUCTIONS .1 Compliance: comply with manufacturer's written recommendations or specifications, including product technical bulletins, handling, storage and installation instructions, and datasheet.
- 3.2 INSTALLATION .1 Locate and install equipment in accordance with manufacturer's recommendations and as indicated.
- 3.3 FIELD QUALITY CONTROL .1 Site Tests:
.1 Perform tests in accordance with Section 26 05 00.
.2 Actuate control units in presence of Departmental Representative to demonstrate lighting circuits are controlled as designated.
.3 Manufacturer's Field Services:
.1 Obtain written report from manufacturer verifying compliance of Work, in handling, installing, applying, protecting and cleaning of product and submit Manufacturer's Field Reports as described in PART 1 - SUBMITTALS.
.2 Provide manufacturer's field services consisting of product use recommendations and periodic site visits for inspection of product installation in accordance with manufacturer's instructions.
- 3.4 CLEANING .1 Proceed in accordance with Section 01 74 11.
.2 Upon completion and verification of performance of installation, remove surplus materials, excess materials, rubbish, tools and equipment.