

Part 1 General

1.1 SECTION INCLUDES

- .1 Materials and installation for emergency lighting systems.

1.2 RELATED SECTIONS

- .1 Section 01 33 00 - Submittal Procedures.
- .2 Section 26 05 21 - Wires and Cables (0-1000 V).
- .3 Section 26 05 34 - Conduits, Conduit Fastenings and Conduit Fittings.

1.3 REFERENCES

- .1 Canadian Standards Association (CSA International)
 - .1 CSA C22.2 No.141-M1985(R1999), Unit Equipment for Emergency Lighting.

1.4 SUBMITTALS

- .1 Submit product data in accordance with Section 01 33 00 - Submittal Procedures.
- .2 Data to indicate system components, mounting method, source of power and special attachments.

1.5 WARRANTY

- .1 For batteries, the 12 months warranty period prescribed in subsection GC32.1 of General Conditions "C" is extended to 120 months, with no-charge replacement during the first 5 years and pro-rate charge on the second 5 years.

Part 2 Products

2.1 EQUIPMENT

- .1 Emergency lighting equipment: to CSA C22.2 No.141.
- .2 Supply voltage: 120 V, ac.
- .3 Output voltage: 12 V dc.
- .4 Operating time: 30 min.
- .5 Battery: sealed, maintenance free.
- .6 Charger: solid state, multi-rate, voltage/current regulated, inverse temperature compensated, short circuit protected with regulated output of plus or minus 0.01V for plus or minus 10% input variations.

- .7 Solid state transfer circuit.
- .8 Low voltage disconnect: solid state, modular, operates at 80% battery output voltage.
- .9 Signal lights: solid state, for 'AC Power ON'.
- .10 Lamp heads: integral on unit and remote, 345 degrees horizontal and 180 degrees vertical adjustment. Lamp type: mini halogen PAR 36, 20 W.
- .11 Cabinet: suitable for direct to wall and c/w knockouts for conduit. Removable or hinged front panel for easy access to batteries.
- .12 Battery capacity: 360 watts.
- .13 Remote lamp heads in Class I Div I locations shall be rate for the area. Two (2) heads per unit.
- .14 Auxiliary equipment:
 - .1 Magnetic test switch.
 - .2 Time delay relay.
 - .3 Service required lamp.
 - .4 Diagnostic LEDs
 - .5 Battery disconnect device.
 - .6 AC input and DC output terminal blocks inside cabinet.
 - .7 Cord and single twist-lock plug connection for AC.
- .15 Acceptable Manufacturer:
 - .1 Emergi-Lite, ESL series battery unit, Survive-All EF30 series remote head, EFXPR series hazardous location remote head.
 - .2 Lumacell, RGS series battery unit, RS-WPRB series remote head, RS10XP series hazardous location remote head.

2.2 WIRING OF REMOTE HEADS

- .1 Conduit: rigid aluminum, in accordance with Section 26 05 34 - Conduits, Conduit Fastenings and Conduit Fittings.
- .2 Conductors: in accordance with Section 26 05 21 - Wires and Cables 0-1000 V, sized in accordance with manufacturer's recommendations.
- .3 Remote heads in Class I Div I areas shall be wire with hazardous location rated TECK cable and connectors. Conductors sized in accordance with manufacturer's recommendations.

Part 3 Execution

3.1 INSTALLATION

- .1 Install unit equipment and remote mounted fixtures.
- .2 Direct heads.
- .3 Connect exit lights to unit equipment.

END OF SECTION