



Letter of Attestation January 30, 2017

COMPANY: Swivelpole Group

ADDRESS: 16 Blackly Row
Cockburn Central, WA 6164
Australia

PROJECT NO: 70112429

CONTACT: Peter Pannekoek **EMAIL:** peter.pannekoek@swivelpole.com

SCOPE: Use of Swivelpole CSA Certified fixture mounting and lowering system in a Class I Division 2 Area

Dear Mr. Pannekoek:

We have completed the investigation of the products you have submitted to us with regards to their use in a Class I Division 2 Hazardous Location and have determined that the Swivelpole™ swivelling light poles and swivelling joints, certified under CSA Certificate of Compliance number 2568504 are acceptable for installation in Class 1 Division 2 Hazardous Locations in Canada and the USA.

Applicable models S1, S2, S3, S4, S5, S6, ST6, ST7, F1, F2, C1, C2, R1, R2, R3.

Applicable Requirements for your Product(s):

- C22.1 - 2015 - Canadian Electrical Code Part 1; Safety Standard for Electrical Installations
- C22.2 No. 0.4-04 - Bonding of Electrical Equipment
- NFPA 70 - 2017 - National Electrical Code

Evaluation:

The CSA Certified Swivelpole™ swivelling lighting poles and swivelling joints are suitable for installation in a Class I Division 2 Hazardous Location based on the following rationale.

- Canadian Electrical Code C22.1-2015 rule 18-150 along with NEC Articles 501.10 (A)(1) and 501.10 (B)(1) and allows wiring in Rigid Conduit. The pole sections of your product will provide an equivalent level of protection to the conductors run within the pole.

- As documented in CSA Report 2568504 your product passed the required testing for lighting poles required by CSA Standard C22.2 No. 250-08 and UL 1598 3rd Edition
- Canadian Electrical Code C22.1-2015 rule 18-072 and NFPA 70 Article 501.30 requires that all exposed non-current carrying metal parts be bonded to ground. To verify that the ground continuity is maintained between the upper and lower part of the swivel assembly a ground continuity test was performed as per Clause 4.1 of C22.2 No. 0.4-2004. Results were satisfactory. To simulate a worst case condition this testing was done on the retrofit series units (Swivelpole™ R Series) which also evaluated the bonding between the retrofit swivel unit and the original pole.

Conditions of Use

The cCSAus Certified Swivelpole™ swivelling lighting poles and swivelling joints are suitable for installation in a Class I Division 2 Hazardous Location based on the following conditions.

- Must be installed as per the Swivelpole™ document *Pole Conversion System: User Manual (January 23, 2017 1:28 PM)*. When installed as per these instructions the Grub Screws (Lock Screws) with their serrated base will make solid contact with the original pole and penetrate any coating which may be present
- Pole must be bonded to ground in accordance with Canadian Electrical Code C22.1-2015 rule 18-072 or NFPA 70 Article 501.30 (A) and (B)

Testing:

The Bond Continuity Test was performed using the assumption that the lighting load on this pole would be supplied by a circuit protected by a circuit breaker or fuse sized no greater than 20A. For the purpose of this test, a current of 40A was applied to one side of the swivel joint and the voltage drop was measured between test points. The maximum allowable voltage drop was 4.0V.

Current applied between:	Voltage Drop	Burning or Melting
Above swivel Joint & Below Swivel Joint (Straight Orientation, bolts tight)	0.16 V	No
Above swivel Joint & Below Swivel Joint (Straight Orientation, bolts loose enough to swivel)	0.28 V	No
Above swivel Joint & Below Swivel Joint (90° Orientation, bolts tight)	0.20 V	No
Above swivel Joint & Below Swivel Joint (90° Orientation, bolts loose enough to swivel)	0.28 V	No

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Best Regards,



Patrick Conway

Field Certifier - Hazardous Locations

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