

CERTIFICATE OF CONFORMITY



1. **HAZARDOUS LOCATION ELECTRICAL EQUIPMENT PER CANADIAN REQUIREMENTS**

2. **Certificate No:** FM18CA0023X
3. **Equipment:** SC6-xxxx System Isolators and Converters
(Type Reference and Name)

4. **Name of Listing Company:** AutomationDirect

5. **Address of Listing Company:** 3505 Hutchinson Road
Cumming, GA 30040
United States

6. The examination and test results are recorded in confidential report number:

PR449541 dated 23rd February 2018

7. FM Approvals LLC, certifies that the equipment described has been found to comply with the following Approval standards and other documents:

CSA-C22.2 No. 213:2004, CAN/CSA-C22.2 No. 60079-0:2011,
CAN/CSA-C22.2 No. 60079-15:2012, CAN/CSA-C22.2 No. 61010.1-04:2004

8. If the sign 'X' is placed after the certificate number, it indicates that the equipment is subject to specific conditions of use specified in the schedule to this certificate.

9. This certificate relates to the design, examination and testing of the products specified herein. The FM Approvals surveillance audit program has further determined that the manufacturing processes and quality control procedures in place are satisfactory to manufacture the product as examined, tested and Approved.

10. Equipment Ratings:

Nonincendive for Class I, Division 2, Groups A, B, C and D and Nonsparking Ex nA for use in Class I, Zone 2, Group IIC, Hazardous Locations.

Certificate issued by:

J.E. Marquedant
Manager, Electrical Systems

23 February 2018

Date

To verify the availability of the Approved product, please refer to www.approvalguide.com

THIS CERTIFICATE MAY ONLY BE REPRODUCED IN ITS ENTIRETY AND WITHOUT CHANGE

FM Approvals LLC. 1151 Boston-Providence Turnpike, Norwood, MA 02062 USA
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SCHEDULE

Canadian Certificate Of Conformity No: FM18CA0023X

11. The marking of the equipment shall include:

Class I, Division 2, Groups A, B, C, D; T4 Ta = -25°C to +70°C

Class I, Zone 2, Ex nA IIC; T4 Ta = -25°C to +70°C

12. **Description of Equipment:**

General - The SC6-xxxx system Isolators and Converters are for the conversion and galvanic isolation of analog signals. The manufacturer specifies that power be supplied by a Class 2 limited energy circuit. The equipment operates over a voltage range of 16.8 to 31.2 Vdc with an input and output current rating of 28mA. The operating ambient temperature range is -25°C to +70°C.

Construction - The equipment is intended to be mounted in a final enclosure in accordance with the specific conditions of use.

SC6-xxxx System Isolators and Converters

Model	Description
SC6-1100	Isolated Repeater
SC6-1101	Loop Powered Isolator 1ch
SC6-1102	2-Wire Current Isolator 1ch
SC6-1110	Isolated Repeater / Splitter
SC6-1111	Loop Powered Isolator 2ch
SC6-1112	2-Wire Current Isolator 2ch
SC6-2200	Isolated Converter
SC6-2220	Isolated Converter / Splitter
SC6-3200	Bipolar Isolated Converter
SC6-3220	Bipolar Isolated Converter / Splitter
SC6-4102	2-Wire Transmitter Isolator 1ch
SC6-4112	2-Wire Transmitter Isolator 2ch
SC6-5200	TC Converter Isolated
SC6-6102	Pt100 Converter, Loop Powered, non-Isolated
SC6-6200	Pt100 Converter, Isolated
SC6-7102	Temperature Converter, Loop Powered, Isolated
SC6-PCU1	Power Connector Unit

SCHEDULE

Canadian Certificate Of Conformity No: FM18CA0023X

13. Specific Conditions of Use:

1. In Class I, Division 2 installations, the subject equipment shall be mounted within a tool-secured enclosure which is capable of accepting one or more of the Class I, Division 2 wiring methods specified in the Canadian Electrical Code, Part I (CSA C22.1).
2. In Class I, Zone 2 installations, the subject equipment shall be mounted within a tool-secured enclosure which is capable of accepting one or more of the Class I, Zone 2 wiring methods specified in the Canadian Electrical Code (CSA C22.1). The equipment shall be installed in an enclosure with a minimum ingress protection rating of IP54 unless the apparatus is intended to be afforded an equivalent degree of protection by location.

14. Test and Assessment Procedure and Conditions:

This Certificate has been issued in accordance with FM Approvals Canadian Certification Scheme.

15. Schedule Drawings

A copy of the technical documentation has been kept by FM Approvals.

16. Certificate History

Details of the supplements to this certificate are described below:

Date	Description
23 rd February 2018	Original Issue.

CERTIFICATE OF CONFORMITY



1. **HAZARDOUS (CLASSIFIED) LOCATION ELECTRICAL EQUIPMENT PER US REQUIREMENTS**

2. **Certificate No:** FM18US0045X

3. **Equipment:** SC6-xxxx System Isolators and Converters
(Type Reference and Name)

4. **Name of Listing Company:** AutomationDirect

5. **Address of Listing Company:** 3505 Hutchinson Road
Cumming, GA 30040
United States

6. The examination and test results are recorded in confidential report number:

PR449541 dated 23rd February 2018

7. FM Approvals LLC, certifies that the equipment described has been found to comply with the following Approval standards and other documents:

FM Class 3600:2011, FM Class 3611:2004, FM Class 3810:2005,
ANSI/ISA 60079-0:2009, ANSI/ISA 60079-15:2009, ANSI/ISA 61010-1:2004

8. If the sign 'X' is placed after the certificate number, it indicates that the equipment is subject to specific conditions of use specified in the schedule to this certificate.

9. This certificate relates to the design, examination and testing of the products specified herein. The FM Approvals surveillance audit program has further determined that the manufacturing processes and quality control procedures in place are satisfactory to manufacture the product as examined, tested and Approved.

10. Equipment Ratings:

Nonincendive for Class I, Division 2, Groups A, B, C and D and Nonsparking AEx nA for use in Class I, Zone 2, Group IIC, Hazardous (Classified) Locations.

Certificate issued by:

J.E. Marquedant
Manager, Electrical Systems

23 February 2018

Date

To verify the availability of the Approved product, please refer to www.approvalguide.com

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SCHEDULE

US Certificate Of Conformity No: FM18US0045X

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SC6-6200	Pt100 Converter, Isolated
SC6-7102	Temperature Converter, Loop Powered, Isolated
SC6-PCU1	Power Connector Unit

SCHEDULE

US Certificate Of Conformity No: FM18US0045X

13. Specific Conditions of Use:

1. In Class I, Division 2 installations, the subject equipment shall be mounted within a tool-secured enclosure which is capable of accepting one or more of the Class I, Division 2 wiring methods specified in the National Electrical Code (ANSI/NFPA 70).
2. In Class I, Zone 2 installations, the subject equipment shall be mounted within a tool-secured enclosure which is capable of accepting one or more of the Class I, Zone 2 wiring methods specified in the National Electrical Code (ANSI/NFPA 70). The equipment shall be installed in an enclosure with a minimum ingress protection rating of IP54 unless the apparatus is intended to be afforded an equivalent degree of protection by location.

14. Test and Assessment Procedure and Conditions:

This Certificate has been issued in accordance with FM Approvals US Certification Requirements.

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