

EC Type-Examination Certificate



Reg.-No.: 01/205/5624.00/17

Product tested	Safety Light Curtain System, Active Opto-electronic Protective Device (AOPD Type 4)	Certificate holder	Wintriss Controls Group, LCC 100 Discovery Way - Unit 110 Acton, MA 01720 USA
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Type designation **Combination of SHADOW 9-xx.x IN xxxxMM /Transmitter/Receiver safety light curtain series with the SHADOW 9 resource module**

Codes and standards	IEC 61496-1:2012 + Corr. 1:2015 IEC 61496-2:2013 IEC 61508 Parts 1-7:2010	ISO 13849-1:2015 EN 50178:1997
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Intended application Safeguarding of machines and other hazardous areas. The Safety Light Curtain System fulfils the requirements of the relevant standards (Type 4 acc. IEC 61496-1/-2, SIL 3 acc. IEC 61508, Cat. 4 / PL e acc. to ISO 13849-1) and can be used in applications up to these safety levels.

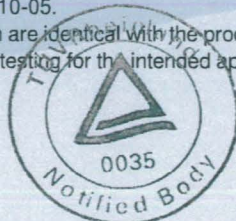
Specific requirements The instructions of the associated Installation and Operating Manual shall be considered.

It is confirmed that the product under test complies with the requirements for machines defined in Annex I of the EC Directive 2006/42/EC.

Valid until 2022-09-27

The issue of this certificate is based upon an examination, whose results are documented in Report No. 968/FSP 1512.00/17 dated 2017-10-05.

This certificate is valid only for products which are identical with the product tested. It becomes invalid at any change of the codes and standards forming the basis of testing for the intended application.



E. Frejno
Dipl.-Ing. Eberhard Frejno

Berlin, 2017-10-05

Notified Body for Machinery, NB 0035

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CERTIFICATE OF COMPLIANCE

Certificate Number 20170713-E244874
Report Reference E244874-20170531
Issue Date 2017-JULY-13

Issued to: WINTRISS CONTROLS GROUP L L C
UNIT 110
100 DISCOVERY WAY
ACTON, MA 01720 USA

**This is to certify that
representative samples of**

ACTIVE OPTO-ELECTRONIC PROTECTIVE DEVICES
See Addendum Page for Models

Have been investigated by UL in accordance with the
Standard(s) indicated on this Certificate.

Standard(s) for Safety:
Additional Information:

See Addendum Page for Standards
See the UL Online Certifications Directory at
www.ul.com/database for additional information

Only those products bearing the UL Certification Mark should be considered as being covered by UL's
Certification and Follow-Up Service.

Look for the UL Certification Mark on the product.



Bruce Mahrenholz, Director North American Certification Program
UL LLC

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CERTIFICATE OF COMPLIANCE

Certificate Number 20170713-E244874
Report Reference E244874-20170531
Issue Date 2017-JULY-13


This is to certify that representative samples of the product as specified on this certificate were tested according to the current UL requirements.

Models:

Type 4 light curtain system: Models SHADOW 9 - 9.4 IN 240 MM,
SHADOW 9 - 12.6 IN 320 MM, SHADOW 9 - 18.9 IN 480 MM,
SHADOW 9 - 25.2 IN 640 MM, SHADOW 9 - 31.5 IN 800 MM,
SHADOW 9 - 37.8 IN 960 MM, SHADOW 9 - 47.2 IN 1200 MM,
SHADOW 9 - 59.8 IN 1520 MM

Standards for Safety:

UL 508 Standard For Safety For Industrial Control Equipment;
UL 61496-1 Standard For Electro-Sensitive Protective Equipment, Part 1: General Requirements and Tests;
UL 61496-2 Electro-sensitive protective Equipment – Part 2: Particular Requirements for equipment using active opto-electronic protective devices (AOPDs);
IEC 61496-1 Standard For Electro-Sensitive Protective Equipment, Part 1: General Requirements and Tests;
IEC 61496-2 Electro-sensitive protective Equipment – Part 2: Particular Requirements for equipment using active opto-electronic protective devices (AOPDs);
ANSI/UL 1998 Software in Programmable Components;
IEC 61508-1 Functional Safety of Electrical / Electronic / Programmable Electronic Safety-Related Systems, Part 1: General Requirements;
IEC 61508-3 Functional Safety of Electrical / Electronic / Programmable Electronic Safety-Related Systems, Part 3: Software Requirements;
ISO 13849-1 Safety of Machinery – Safety-Related Parts of Control Systems, Part 1: General Principles for Design



Bruce Mahrenholz, Director North American Certification Program

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Active Opto-electronic Protective Devices

[See General Information for Active Opto-electronic Protective Devices](#)**WINTRISS CONTROLS GROUP L L C**

E244874

UNIT 110
100 DISCOVERY WAY
ACTON, MA 01720 USA

Type 4, Light curtain system, Series SHADOW VII DIN CONTROL, SHADOW VII CONTROL, SHADOW VII 6" MAIN TX, SHADOW VII 12" MAIN TX, SHADOW VII 18" MAIN TX, SHADOW VII 24" MAIN TX, SHADOW VII 30" MAIN TX, SHADOW VII 36" MAIN TX, SHADOW VII 42" MAIN TX, SHADOW VII 48" MAIN TX, SHADOW VII 54" MAIN TX, SHADOW VII 60" MAIN TX, SHADOW VII 66" MAIN TX, SHADOW VII 72" MAIN TX, SHADOW VII 6" EXTENSION TX, SHADOW VII 12" EXTENSION TX, SHADOW VII 18" EXTENSION TX, SHADOW VII 24" EXTENSION TX, SHADOW VII 30" EXTENSION TX, SHADOW VII 36" EXTENSION TX, SHADOW VII 42" EXTENSION TX, SHADOW VII 48" EXTENSION TX, SHADOW VII 54" EXTENSION TX, SHADOW VII 60" EXTENSION TX, SHADOW VII 66" EXTENSION TX, SHADOW VII 72" EXTENSION TX, SHADOW VII 6" MAIN RX, SHADOW VII 12" MAIN RX, SHADOW VII 18" MAIN RX, SHADOW VII 24" MAIN RX, SHADOW VII 30" MAIN RX, SHADOW VII 36" MAIN RX, SHADOW VII 42" MAIN RX, SHADOW VII 48" MAIN RX, SHADOW VII 54" MAIN RX, SHADOW VII 60" MAIN RX, SHADOW VII 66" MAIN RX, SHADOW VII 72" MAIN RX, SHADOW VII 6" EXTENSION RX, SHADOW VII 12" EXTENSION RX, SHADOW VII 18" EXTENSION RX, SHADOW VII 24" EXTENSION RX, SHADOW VII 30" EXTENSION RX, SHADOW VII 36" EXTENSION RX, SHADOW VII 42" EXTENSION RX, SHADOW VII 48" EXTENSION RX, SHADOW VII 54" EXTENSION RX, SHADOW VII 60" EXTENSION RX, SHADOW VII 66" EXTENSION RX, SHADOW VII 72" EXTENSION RX, followed by various suffixes that indicate Detection Zone, TX or RX, and Head Segment.

Models SHADOW 9 - 9.4 IN 240 MM, SHADOW 9 - 12.6 IN 320 MM, SHADOW 9 - 18.9 IN 480 MM, SHADOW 9 - 25.2 IN 640 MM, SHADOW 9 - 31.5 IN 800 MM, SHADOW 9 - 37.8 IN 960 MM, SHADOW 9 - 47.2 IN 1200 MM, SHADOW 9 - 59.8 IN 1520 MM.

Type 4, Light curtain system consisting of Transmitter and Receiver, Series SHADOW 8, followed by a number, followed by IN, followed by a number, followed by MM, followed by MAIN or EXTENSION.

+ Also investigated to UL 1998, "Software in Programmable Components."

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Active Opto-electronic Protective Devices Certified for Canada

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Active Opto-electronic Protective Devices Certified for Canada

[See General Information for Active Opto-electronic Protective Devices Certified for Canada](#)**WINTRISS CONTROLS GROUP L L C**

E244874

UNIT 110

100 DISCOVERY WAY

ACTON, MA 01720 USA

Type 4, Light curtain system: Series SHADOW VII DIN CONTROL, SHADOW VII CONTROL, SHADOW VII 6" MAIN TX, SHADOW VII 12" MAIN TX, SHADOW VII 18" MAIN TX, SHADOW VII 24" MAIN TX, SHADOW VII 30" MAIN TX, SHADOW VII 36" MAIN TX, SHADOW VII 42" MAIN TX, SHADOW VII 48" MAIN TX, SHADOW VII 54" MAIN TX, SHADOW VII 60" MAIN TX, SHADOW VII 66" MAIN TX, SHADOW VII 72" MAIN TX, SHADOW VII 6" EXTENSION TX, SHADOW VII 12" EXTENSION TX, SHADOW VII 18" EXTENSION TX, SHADOW VII 24" EXTENSION TX, SHADOW VII 30" EXTENSION TX, SHADOW VII 36" EXTENSION TX, SHADOW VII 42" EXTENSION TX, SHADOW VII 48" EXTENSION TX, SHADOW VII 54" EXTENSION TX, SHADOW VII 60" EXTENSION TX, SHADOW VII 66" EXTENSION TX, SHADOW VII 72" EXTENSION TX, SHADOW VII 6" MAIN RX, SHADOW VII 12" MAIN RX, SHADOW VII 18" MAIN RX, SHADOW VII 24" MAIN RX, SHADOW VII 30" MAIN RX, SHADOW VII 36" MAIN RX, SHADOW VII 42" MAIN RX, SHADOW VII 48" MAIN RX, SHADOW VII 54" MAIN RX, SHADOW VII 60" MAIN RX, SHADOW VII 66" MAIN RX, SHADOW VII 72" MAIN RX, SHADOW VII 6" EXTENSION RX, SHADOW VII 12" EXTENSION RX, SHADOW VII 18" EXTENSION RX, SHADOW VII 24" EXTENSION RX, SHADOW VII 30" EXTENSION RX, SHADOW VII 36" EXTENSION RX, SHADOW VII 42" EXTENSION RX, SHADOW VII 48" EXTENSION RX, SHADOW VII 54" EXTENSION RX, SHADOW VII 60" EXTENSION RX, SHADOW VII 66" EXTENSION RX, SHADOW VII 72" EXTENSION RX, followed by various suffixes that indicate Detection Zone, TX or RX, and Head Segment.

Models SHADOW 9 - 9.4 IN 240 MM, SHADOW 9 - 12.6 IN 320 MM, SHADOW 9 - 18.9 IN 480 MM, SHADOW 9 - 25.2 IN 640 MM, SHADOW 9 - 31.5 IN 800 MM, SHADOW 9 - 37.8 IN 960 MM, SHADOW 9 - 47.2 IN 1200 MM, SHADOW 9 - 59.8 IN 1520 MM.

Type 4, Light curtain system consisting of Transmitter and Receiver, Series SHADOW 8, followed by a number, followed by IN, followed by a number, followed by MM, followed by MAIN or EXTENSION.

+ -Also investigated to UL 1998, the Standard for Safety Related Software.

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Certificate of Compliance

Certificate: 1607946

Master Contract: 227708

Project: 70137039

Date Issued: 2017-05-19

Issued to: Wintriss Controls Group, LCC
100 Discovery Way, Unit 110
Acton, MA 01720
USA

Attention: Dick LaBelle

The products listed below are eligible to bear the CSA Mark shown with adjacent indicators 'C' and 'US' for Canada and US or with adjacent indicator 'US' for US only or without either indicator for Canada only



Issued by:

Maggie Lam
Product Group Coordinator

PRODUCTS

CLASS 3211 07 – INDUSTRIAL CONTROL EQUIPMENT

CLASS 3211 87 – INDUSTRIAL CONTROL EQUIPMENT

Relay Modules, Model Shadow VII DIN, DIN-rail mount, rated Input 24 V dc, 72 mA, output contacts 150 V ac, 7 A, or 24 V ac/dc 7 A res/ 2 A. ind; and Model Shadow 8 Control, rated Input 100-240 V ac, 50-60 Hz, 0.6/0.4 A; and **Model Shadow 9 Control**, rated Input 100-240 V ac, 47-63 Hz, 0.8/0.4 A.

Notes:

1. The above product is supplied by external power supplies which are not part of this certification. The power supplies are Class 2, ELV (less than 100 VA and 42.4 V pk).
2. The above product is certified as a component. The suitability of the combination of the component and their enclosure are to be determined in the end use application.
3. The above product is for use with Wintriss Controls' Presence Sensing light curtain device Shadow VII Series.



Certificate: 1607946

Master Contract: 227708

Project: 70137039

Date Issued: 2017-05-19

4. The Shadow 8 Control Relay Module is for use with Wintriss Controls' Presence Sensing Light Curtain Device Shadow 8 Series.
5. The Shadow 9 Control Relay Module is for use with Wintriss Control's Presence Sensing Light Curtain device Shadow 9 Series.
6. Evaluated for electrical safety only.

APPLICABLE REQUIREMENTS

CSA-C22.2 No 14-13
UL 508 (17th Edition)

Industrial Control Equipment
Industrial Control Equipment

MARKINGS

The following markings appear on separate CSA Accepted UL Recognized adhesive type nameplates:

1. A CSA NRTL/C or "C" and "US" mark adjacent to the submittor's name and/or file number "227708", model designation, complete electrical rating in volts, hertz and amperes, and a date code or serial number traceable to the month and year of manufacture and manufacturing facility (unless designated by an equivalent means).
2. The following marking provided in a visible manner: "CERTIFIED FOR ELECTRICAL SHOCK AND ELECTRICAL FIRE HAZARD ONLY." and "LA CERTIFICATION ACNOR COURVRE UNIQUEMENT LES RISQUE DE CHOC ELECTRIQUE ET D'INCENDIE D'ORIGINE ELECTRIQUE".