

# CERTIFICATE OF COMPLIANCE

**Certificate Number** 20151214-E473071  
**Report Reference** E473071-20150106  
**Issue Date** 2015-DECEMBER-14

**Issued to:** ABB AB JOKAB SAFETY  
Varlabergsvagen 11  
SE-434 39 Kungsbacka, SWEDEN

**This is to certify that representative samples of** Active Opto-electronic Protective Devices  
See Addendum Page

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

**Standard(s) for Safety:** UL 61496-1, Electro-Sensitive Protective Equipment, Part 1: General Requirements and Tests  
UL 508 and C22.2 No. 14-05 - Industrial Control Equipment  
UL 61496-2 - Standard for 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.

**Additional Information:** See the UL Online Certifications Directory at [www.ul.com/database](http://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

Any information and documentation involving UL Mark services are provided on behalf of UL LLC (UL) or any authorized licensee of UL. For questions, please contact a local UL Customer Service Representative at <http://ul.com/aboutul/locations/>



# CERTIFICATE OF COMPLIANCE

**Certificate Number** 20151214-E473071  
**Report Reference** E473071-20150106  
**Issue Date** 2015-DECEMBER-14

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

**Models:**

Orion2-4-K2-050-B, Orion2-4-K3-080-B, Orion2-4-K4-090-B, Orion2-4-K4-120-B, Orion1-4-14-015-B, Orion1-4-14-030-B, Orion1-4-14-045-B, Orion1-4-14-060-B, Orion1-4-14-075-B, Orion1-4-14-090-B, Orion1-4-14-105-B, Orion1-4-14-120-B, Orion1-4-14-135-B, Orion1-4-14-150-B, Orion1-4-14-165-B, Orion1-4-14-180-B, Orion1-4-14-030-E, Orion1-4-14-045-E, Orion1-4-14-060-E, Orion1-4-14-075-E, Orion1-4-14-090-E, Orion1-4-14-105-E, Orion1-4-14-120-E, Orion1-4-14-135-E, Orion1-4-14-150-E, Orion1-4-14-165-E, Orion1-4-14-180-E, Orion1-4-30-015-B, Orion1-4-30-030-B, Orion1-4-30-045-B, Orion1-4-30-060-B, Orion1-4-30-075-B, Orion1-4-30-090-B, Orion1-4-30-105-B, Orion1-4-30-120-B, Orion1-4-30-135-B, Orion1-4-30-150-B, Orion1-4-30-165-B, Orion1-4-30-180-B, Orion1-4-30-030-E, Orion1-4-30-045-E, Orion1-4-30-060-E, Orion1-4-30-075-E, Orion1-4-30-090-E, Orion1-4-30-105-E, Orion1-4-30-120-E, Orion1-4-30-135-E, Orion1-4-30-150-E, Orion1-4-30-165-E, Orion1-4-30-180-E, Orion3-4-K1C-050-B, Orion3-4-K2C-080-B, Orion3-4-K2C-090-B, Orion3-4-K2C-120-B, Orion3-4-M1C-050, Orion3-4-M2C-080, Orion3-4-M2C-090, Orion3-4-M2C-120, Orion2-4-K2-050-E, Orion2-4-K3-080-E, Orion2-4-K4-090-E, Orion2-4-K4-120-E, Orion3-4-K1C-050-E, Orion3-4-K2C-080-E, Orion3-4-K2C-090-E, Orion3-4-K2C-120-E



Bruce Mahrenholz, Director North American Certification Program

UL LLC

Any information and documentation involving UL Mark services are provided on behalf of UL LLC (UL) or any authorized licensee of UL. For questions, please contact a local UL Customer Service Representative at <http://ul.com/aboutul/locations/>

