

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 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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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



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