

CERTIFICATE OF COMPLIANCE

Certificate Number 20140528-E364384
Report Reference E364384-20140429
Issue Date 2014-MAY-28

Issued to: Nidec Avtron Automation Corp
8901 E PLEASANT VALLEY RD
INDEPENDENCE OH 44131-5508

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

TELEMETERING EQUIPMENT FOR USE IN HAZARDOUS
LOCATIONS


See Addendum Page

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

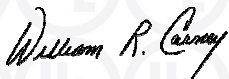
Standard(s) for Safety: See Addendum Page

Additional Information: See the UL Online Certifications Directory at
www.ul.com/database for additional information

Only those products bearing the UL Listing Mark for the US and Canada should be considered as being covered by UL's Listing and Follow-Up Service meeting the appropriate requirements for US and Canada.

The UL Listing Mark for the US and Canada generally includes: the UL in a circle symbol with "C" and "US" identifiers:  the word "LISTED"; a control number (may be alphanumeric) assigned by UL; and the product category name (product identifier) as indicated in the appropriate UL Directory.

Look for the UL Listing Mark on the product.



William R. Carney, Director, North American Certification Programs
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 www.ul.com/contactus



CERTIFICATE OF COMPLIANCE

Certificate Number 20140528-E364384
Report Reference E364384-20140429
Issue Date 2014-MAY-28

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

USL, CNL Incremental Encoders for use in Class I, Division 2, Groups A, B, C, and D Hazardous Locations.

“Thinline” Encoders Series - Model XR, followed by either 56A, 56S, 67A, 85A, or 115; followed by 1 or 2; followed by any three-digit combination of letters and numbers; followed by G; followed by any two-digit combination of letters and numbers; followed by either H, M, N, or 8; followed by any three-digit combination of letters or numbers.

“45” Encoder Series - Model XR, followed by 45 or 4F; followed by any five-digit combination of numbers and letters; followed by G; followed by either H, M, N, or 8; followed by any five-digit combination of letters and numbers.

“Smartach” Sensor Series - Model XR, followed by either 5, 12, or 97; followed by G; followed by any single letter or number; followed by either 4, 5, 6, 7, or 2; followed by any three-digit combination of letters and numbers.

“Smartach Modular” Encoder Series - Model XR, followed by 850 or 125; followed by any three-digit combination of numbers and letters; followed by G or X; followed by any single letter or number; followed by G or X; followed by any single number or letter; followed by either 4, 5, 6, 7, or 2; followed by any three-digit combination of numbers and letters.

“Smartach Shafted” Encoder Series – Model XR, followed by 485 or 685; followed by C or N; followed by any two-digit combination of letters or numbers; followed by G or X; followed by any single letter or number; followed by G or X; followed by any single number or letter; followed by either 4, 5, 6, 7, or 2; followed by any three-digit combination of numbers and letters.


Standards:

Standard No. ANSI/ISA 12.12.01, 2013, Nonincendive Electrical Equipment for Use in Class I and II, Division 2 and Class III, Divisions 1 and 2 Hazardous (Classified) Locations

Standard No. UL 508, 17th Ed., 2013-10-16, Industrial Control Equipment

Standard No. CAN/CSA C22.2 No. 213-M1987, 1st Ed. Non-incendive Electrical Equipment for Use in Class I, Division 2 Hazardous Locations

Standard No. CSA C22.2 No. 14-13, Industrial Control Equipment



William R. Carney, Director, North American Certification Programs
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 www.ul.com/contactus



CERTIFICATE OF COMPLIANCE

Certificate Number 20140528-E364384
Report Reference E364384-20140430
Issue Date 2014-MAY-28



Issued to: Nidec Avtron Automation Corp
8901 E PLEASANT VALLEY RD
INDEPENDENCE OH 44131-5508

This is to certify that representative samples of COMPONENT - TELEMETERING EQUIPMENT FOR USE IN HAZARDOUS LOCATIONS
See Addendum Page

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

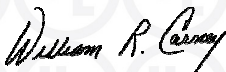
Standard(s) for Safety: See Addendum Page
Additional Information: See the UL Online Certifications Directory at www.ul.com/database for additional information

Only those products bearing the UL Recognized Component Marks for the U.S. and Canada should be considered as being covered by UL's Recognition and Follow-Up Service and meeting the appropriate U.S. and Canadian requirements.

The UL Recognized Component Mark for the U.S. generally consists of the manufacturer's identification and catalog number, model number or other product designation as specified under "Marking" for the particular Recognition as published in the appropriate UL Directory. As a supplementary means of identifying products that have been produced under UL's Component Recognition Program, UL's Recognized Component Mark: , may be used in conjunction with the required Recognized Marks. The Recognized Component Mark is required when specified in the UL Directory preceding the recognitions or under "Markings" for the individual recognitions. The UL Recognized Component Mark for Canada consists of the UL Recognized Mark for Canada:  and the manufacturer's identification and catalog number, model number or other product designation as specified under "Marking" for the particular Recognition as published in the appropriate UL Directory.

Recognized components are incomplete in certain constructional features or restricted in performance capabilities and are intended for use as components of complete equipment submitted for investigation rather than for direct separate installation in the field. The final acceptance of the component is dependent upon its installation and use in complete equipment submitted to UL LLC.

Look for the UL Recognized Component Mark on the product.



William R. Carney, Director, North American Certification Programs

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 www.ul.com/contactus



CERTIFICATE OF COMPLIANCE

Certificate Number 20140528-E364384
Report Reference E364384-20140430
Issue Date 2014-MAY-28

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

USR, CNR Incremental Encoders for use in Class I, Division 2, Groups A, B, C, and D Hazardous Locations.

“Thinline” Encoders Series - Model XR, followed by either 56A, 56S, 67A, 85A, or 115; followed by 1 or 2; followed by any three-digit combination of letters and numbers; followed by R; followed by any two-digit combination of letters and numbers; followed by either A, B, C, D, E, F, J, K, S, T, U or V; followed by any three-digit combination of letters or numbers.

“45” Encoder Series - Model XR, followed by 45 or 4F; followed by any five-digit combination of numbers and letters; followed by R; followed by either A, B, C, D, J, and K; followed by any five-digit combination of letters and numbers.

“Smartach” Sensor Series - Model XR, followed by either 5, 12, or 97; followed by R; followed by any single letter or number; followed by either A, B, E, F, J, K, S, T, U, V; followed by any three-digit combination of letters and numbers.

“Smartach Modular” Encoder Series - Model XR, followed by 850 or 125; followed by any three-digit combination of numbers and letters; followed by R or X; followed by any single letter or number; followed by R or X; followed by any single number or letter; followed by either A, B, E, F, H, J, S, T, U, V; followed by any three-digit combination of numbers and letters.

“Smartach Shafted” Encoder Series – Model XR, followed by 485 or 685; followed by C or N; followed by any two-digit combination of letters or numbers; followed by R or X; followed by any single letter or number; followed by R or X; followed by any single number or letter; followed by either A, B, E, F, H, J, S, T, U, V; followed by any three-digit combination of numbers and letters.

Standards:

Standard No. ANSI/ISA 12.12.01, 2013, Nonincendive Electrical Equipment for Use in Class I and II, Division 2 and Class III, Divisions 1 and 2 Hazardous (Classified) Locations

Standard No. CAN/CSA C22.2 No. 213-M1987, 1st Ed. Non-incendive Electrical Equipment for Use in Class I, Division 2 Hazardous Locations

UL 508 “Industrial Control Equipment”, Seventeenth Edition

Canadian National Standards C22.2 No. 142-M1987 “Process Control Equipment”



William R. Carney, Director, North American Certification Programs

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 www.ul.com/contactus

