

# CERTIFICATE OF COMPLIANCE

**Certificate Number** 20140805-E364384  
**Report Reference** E364384-20140801  
**Issue Date** 2014-AUGUST-5

**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; TELEMETERING EQUIPMENT FOR USE IN  
ZONE CLASSIFIED 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 pages

**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 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](http://www.ul.com/contactus)



# CERTIFICATE OF COMPLIANCE

**Certificate Number** 20140805-E364384  
**Report Reference** E364384-20140801  
**Issue Date** 2014-AUGUST-5

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 – Class I, Div. 1, Groups A, B, C, and D Hazardous Locations.

USL – Class I, Zone 0, AEx ia IIC Ga Hazardous Locations.

CNL – Class I, Zone 0, Ex ia IIC Ga Hazardous Locations.

Incremental Encoders, intrinsically safe for use in Class I, Division 1, Groups A, B, C, and D; Class I, Zone 0, Group IIC Hazardous Locations when installed per Installation Drawing No. D52354.

“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 F; followed by any two-digit combination of letters and numbers; followed by either A, B, C, D, E, F, J, K, S, T, U, V, R, P, G, W, H, M, N, 8, or Y; followed by any three-digit combination of letters or numbers.

“4X” Encoder Series - Model XR, followed by 45, 4F, or 47; followed by any five-digit combination of numbers and letters; followed by F; followed by either A, B, C, D, 4, E, F, J, K, P, G, R, H, L, M, N, 8, T, U, 2, 3, or W; followed by any five-digit combination of letters and numbers.

“SMARTach” Sensor Series - Model XR, followed by either 5, 12, or 97; followed by F; followed by any single letter or number; followed by either A, B, E, F, J, K, S, T, U, V, R, P, G, W, 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 F or X; followed by any single letter or number; followed by F or X; followed by any single number or letter; followed by either A, B, E, F, J, K, S, T, U, V, R, P, G, W, 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 F or X; followed by any single letter or number; followed by F or X; followed by any single number or letter; followed by either A, B, E, F, J, K, S, T, U, V, R, P, G, W, 4, 5, 6, 7, or 2; followed by any three-digit combination of numbers and letters.



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](http://www.ul.com/contactus)



# CERTIFICATE OF COMPLIANCE

**Certificate Number** 20140805-E364384  
**Report Reference** E364384-20140801  
**Issue Date** 2014-AUGUST-5

## Standards for Safety:

UL 913 – Intrinsically Safe Apparatus and Associated Apparatus for Use in Class I, II, and III, Division 1, Hazardous (Classified) Locations;  
UL 60079-0 – Explosive atmospheres – Part 0: Equipment – General Requirements;  
UL 60079-11 – Explosive atmospheres – Part 11: Equipment – General Requirements;  
CAN/CSA C22.2 No. 157-92 – Intrinsically Safe and Non-incendive Equipment for Use in Hazardous Locations;  
CAN/CSA-C22.2 No. 60079-0:11 – Explosive atmospheres — Part 0: Equipment — General requirements;  
CAN/CSA-C22.2 No. 60079-11:14 – Explosive atmospheres — Part 11: Equipment protection by intrinsic safety “i”



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](http://www.ul.com/contactus)

