

# CERTIFICATE OF COMPLIANCE

**Certificate Number** E364384  
**Report Reference** E364384-2014-08-01  
**Date** 2021-October-20

**Issued to:** Nidec Industrial Solutions  
243 Tuxedo Ave  
Brooklyn Heights OH, 44131 US

**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 for Product Designation(s).

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

**Standard(s) for Safety:**

Standard No. UL 913,, Intrinsically Safe Apparatus and  
Associated Apparatus for Use in Class I, II, and III, Division  
1, Hazardous (Classified) Locations

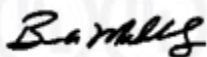
Standard No. UL 60079-0, Explosive atmospheres – Part 0:  
Equipment – General Requirements

Standard No. UL 60079-11, Explosive atmospheres – Part  
11: Equipment – General Requirements

Standard No. CAN/CSA C22.2 No. 157-92, Intrinsically  
Safe and Non-incendive Equipment for Use in Hazardous  
Locations

Standard No. CAN/CSA-C22.2 No. 60079-0:11, Explosive  
atmospheres — Part 0: Equipment — General requirements

Standard No. CAN/CSA-C22.2 No. 60079-11:14, Explosive  
atmospheres — Part 11: Equipment protection by intrinsic  
safety “i”



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

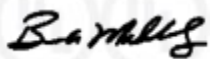
**Certificate Number** E364384  
**Report Reference** E364384-2014-08-01  
**Date** 2021-October-20

**Additional Information:** See the UL Online Certifications Directory at <https://iq.ulprospector.com> for additional information

This Certificate of Compliance does not provide authorization to apply the UL Mark. Only the UL Follow-Up Services Procedure provides authorization to apply the UL Mark.

Only those products bearing the UL Mark should be considered as being UL Certified and covered under UL's Follow-Up Services.

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** E364384  
**Report Reference** E364384-2014-08-01  
**Date** 2021-October-20

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.

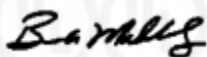
“Thinline” Encoders Series - Model XR, followed by either 56A, 56S, 67A, 85A, or 115; followed by 1 or 2; followed by any three-digit combination of letters and numbers; followed by F; followed by any two-digit combination of letters and numbers; followed by either A, B, C, D, E, F, J, K, S, T, U, V,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



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/>

