

# CERTIFICATE OF COMPLIANCE

**Certificate Number** E364384  
**Report Reference** E364384-20140801  
**Issue Date** 2020-MAY-15

**Issued to:** NIDEC INDUSTRIAL SOLUTIONS  
243 TUXEDO AVE  
BROOKLYN HEIGHTS, OH, 44131-5508 USA

**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  
<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

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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.

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.



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## 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”



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