

- **CSA Certificate of Compliance**



Certificate of Compliance

Certificate: 1911747

Master Contract: 237484

Project: 2386064

Date Issued: April 29, 2011

Issued to: Automation Products Group Inc

1025 West 1700 North
Logan, UT 84321
USA

Attention: Karl Reid

The products listed below are eligible to bear the CSA Mark shown with adjacent indicators 'C' and 'US' for Canada and US or with adjacent indicator 'US' for US only or without either indicator for Canada only.



Rawn Murphy

Issued by: Rawn Murphy

PRODUCTS

CLASS 2258 82 - PROCESS CONTROL EQUIPMENT - For Hazardous Locations -
Certified to US Standards

CLASS 2258 02 - PROCESS CONTROL EQUIPMENT - For Hazardous Locations

Class I, Division 2, Groups C and D, T6

Ex nA IIB T6; IP65

Class I, Zone 2; AEx nA IIB T6; IP65

LPU Series Ultrasonic Sensors, Models LPU-2127, LPU-4127, LPU-2428 and LPU 4428; Rated input 12 to 28Vdc, Outputs 4-20mA; Ambient temperature range -40°C to +60°C.

LOE Series Ultrasonic Sensors, Models LOE-2126, LOE-6126, and LOE-3136; Rated input 48VDC or 12 to 28Vdc, 200 mA containing two optically-coupled MOSFET solid-state relay outputs rated 1500 Vr.m.s isolation voltage; Ambient temperature range -40°C to +60°C.

Note:

1) The LOE Series shall be powered by a suitable certified Class 2 power supply.



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CLASS 2258 04 - PROCESS CONTROL EQUIPMENT - Intrinsically Safe, Entity - For Hazardous Locations

CLASS 2258 84 - PROCESS CONTROL EQUIPMENT - Intrinsically Safe, Entity - For Hazardous Locations - Certified to US Standards

Class I, Division 1, Groups C and D, T3

Ex ia IIB, T3 (Canada); IP65

Class I, Zone 0; AEx ia IIB, T3 (USA); IP65

LPU-2428 and LPU-4428 ultrasonic sensors; Rated input 12 to 28VDC, Outputs 4-20mA, Ambient temperature range -40°C to +60°C. Entity Parameters $V_{max} = 28VDC$, $I_{max} = 130mA$, $P_i = 0.91W$, $C_i = 0nF$, $L_i = 110\mu H$, intrinsically safe when connected in accordance with Installation drawing 9002747.

APPLICABLE REQUIREMENTS

CAN/CSA Standard C22.2 No. 0-M91	General Requirements - Canadian Electrical Code, Part II
CSA Standard C22.2 No.142-M1987	Process Control Equipment Industrial Products
CAN/CSA Standard C22.2 No.157-92	Intrinsically Safe and Non-Incendive Equipment for Use in Hazardous Locations
CAN/CSA Standard C22.2 No.213-M1987	Non-incendive Electrical Equipment for Use in Class I, Division 2 Hazardous Locations Industrial Products
CAN/CSA Standard E60079-0-02	Electrical Apparatus for Explosive Gas Atmospheres – Part 0: General Requirements
CAN/CSA Standard E60079-11-02	Electrical Apparatus for Explosive Gas Atmospheres – Part 11: Intrinsic Safety "i"
CAN/CSA Standard E60079-15-02	Electrical Apparatus for Explosive Gas Atmospheres - Part 15: Type of Protection "n"
CAN/CSA Standard C22.2 No. 60529-05	Degrees of Protection Provided by Enclosures (IP Code)
UL Standard 508	Industrial Control Equipment
UL Standard 913	Intrinsically Safe Apparatus and Associated Apparatus for Use in Class I, II, and III, Division 1, Hazardous (Classified) Locations



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ANSI/ISA Standard 12.12.01-2007	Nonincendive Electrical Equipment for Use in Class I and II, Division 2, and Class III Divisions 1 and 2 Hazardous (Classified) Locations
UL Standard 60079-0	Electrical Apparatus for Explosive Gas Atmospheres – Part 0: General Requirements
UL Standard 60079-11	Electrical Apparatus for Explosive Gas Atmospheres Part 11: Intrinsic Safety "i"
UL Standard 60079-15	Electrical Apparatus for Explosive Gas Atmospheres Part 15: Electrical Apparatus with Type of Protection "n"
IEC 60529	Degrees of Protection Provided by Enclosures (IP Code)

MARKINGS

The following markings are provided on CSA-Accepted (Class 7922-01, File number 99316) adhesive label stock Product Number 7871 manufactured by 3M Company, which is suitable for indoor or outdoor use on Plastic Group VII, at a maximum service temperature of 80°C or higher. The label stock shall be printed with one of the approved printer and ink combinations as specified in the manufacturers listing and the finished label is affixed to the housing.

- Manufacturer's name, "Automation Products Group", or CSA Master Contract Number "237484", adjacent to the CSA Mark in lieu of Manufacturer's name.
- Model number: as specified in the PRODUCTS section, above.
- Electrical ratings: as specified in the PRODUCTS section, above.
- Ambient temperature rating: as specified in the PRODUCTS section, above (may be abbreviated).
- Manufacturing date in MMY format, or serial number, traceable to month of manufacture.
- The CSA Mark with "C" and "US" indicators, as shown on the Certificate of Conformity.
- Hazardous Location designation: as specified in the PRODUCTS section, above.
- Temperature Code: as specified in the PRODUCTS section, above (May appear on control drawing).
- Class I Division 1 additional Markings -
 - "Exia" followed by "IIB"
 - "INTRINSICALLY SAFE"
 - "WARNING- EXPLOSION HAZARD – SUBSTITUTION OF COMPONENTS MAY IMPAIR INTRINSIC SAFETY" (Equivalent wording is acceptable).
 - "WARNING- TO PREVENT IGNITION OF FLAMMABLE OR COMBUSTIBLE ATMOSPHERES, DISCONNECT POWER BEFORE SERVICING".
 - "Install per Drawing 9002748" (or equivalent): as specified in the PRODUCTS section, above
- Class I Division 2 additional Markings –
 - "Ex nA" followed by "IIB"
 - "WARNING- DO NOT DISCONNECT EQUIPMENT UNLESS AREA IS KNOWN TO BE NON-HAZARDOUS".
 - "WARNING – POTENTIAL ELECTROSTATIC CHARGING HAZARD – SEE INSTRUCTIONS" (or equivalent).



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- For the LPU Series Ultrasonic Sensors, the words “Reference installation drawing number 9002745” (or equivalent): as specified in the PRODUCTS section, above
 - For the LOE Series Ultrasonic Sensors, the words “Reference installation drawing number 9003469” (or equivalent): as specified in the PRODUCTS section, above
 - For the LOE Series Ultrasonic Sensors, the manual shall contain the following words: “WARNING – NONCONDUCTIVE SURFACE OF THE HOUSING MAY BE CHARGED BY NONCONDUCTIVE MEDIA, CLEAN WITH A DAMP CLOTH”

Note - Jurisdictions in Canada may require these markings to also be provided in French language. It is the responsibility of the manufacturer to provide bilingual marking, where applicable, in accordance with the requirements of the Provincial Regulatory Authorities. It is the responsibility of the manufacturer to determine this requirement and have bilingual wording added to the "Markings".