



Certificate of Compliance

Certificate: 70014955

Master Contract: 258948

Project: 70093598

Date Issued: September 2, 2016

Issued to: A-T Controls
9955 International Blvd.
Cincinnati, Ohio 45246
USA

Attention: Mr. Steve Hacker

The products listed below are eligible to bear the CSA Mark shown with adjacent indicators 'C' and 'US' for Canada and US (indicating that products have been manufactured to the requirements of both Canadian and US Standards) or with adjacent indicator 'US' for US only or without either indicator for Canada only



Jeannette Keller

Issued by:

Jeannette Keller

PRODUCTS

CLASS – 3218-06 - INDUSTRIAL CONTROL EQUIPMENT-Miscellaneous Apparatus - For Hazardous Locations

CLASS – 3218-86 - INDUSTRIAL CONTROL EQUIPMENT-Miscellaneous Apparatus-For Hazardous Locations-Certified to U.S. Standards

**Class I, Division 1, Groups C & D T6;
Class I, Zone 1, AEx d IIB, T6; Ex d IIB T6**

TRIAC Valve position indicator model APL-4aaN rated per table below:
Enclosure Type 4X/6, IP 66/67/68 (29 psi).



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Where:

aa	Switch Type	Switch model number	Ambient temp.	Electrical ratings
10	2-SPDT	Wonwoo SZM-V16-5FA-61	-20°C to +60°C	250V max, 4A max
11	3-SPDT	Wonwoo SZM-V16-5FA-61	-20°C to +60°C	250V max, 4A max
12	4-SPDT	Wonwoo SZM-V16-5FA-61	-20°C to +60°C	250V max, 4A max
13	2-SPST	Wonwoo SZM-V16-5FA	-20°C to +60°C	250V max, 4A max
14	2-DPDT	Omron DZ-10GW-1B	-20°C to +60°C	250V max, 4A max
15	2-SPDT + Potentiometer	Wonwoo SZM-V16-5FA-61	-20°C to +60°C	250V max, 4A max
16	2-SPDT + Signal Unit	Wonwoo SZM-V16-5FA-61	-20°C to +60°C	250V max, 4A max
20	Proximity sensor	P&F NJ2-V3-N	-20°C to +60°C	8.2V nom, 3mA nom.
22	Proximity sensor	P&F NJ4-12GM-N	-20°C to +60°C	8.2V nom., 3mA nom.
23	Proximity sensor	P&F NBB2-V3	-20°C to +60°C	30Vdc max, 100mA max.
25	Proximity sensor+ Potentiometer	P&F NJ2-V3-N	-20°C to +60°C	8.2V nom, 3mA nom.
26	Proximity sensor + Signal Unit (4~20mA)	P&F NJ2-V3-N	-20°C to +60°C	8.2V nom, 3mA nom.
30	Reed switch	MK21 model 85	-20°C to +60°C	250 V max, 1A max
31	Reed switch	MK21 model 66	-20°C to +60°C	180 V max, 0.5 A max
32	Reed switch	MK21 model 90	-20°C to +60°C	175 V max, 0.5 A max

Note: The electrical ratings of the internal switch component dictate the equipment electrical ratings, but not to exceed 250 V max and 4 A max equipment electrical rating

Class I, Division 1, Groups B, C & D T6; Class II, Division 1, Groups E, F and G; Class III; Class I, Zone 1, AEx d IIC, T6; Class II, Zone 21 AEx tb IIIC T65°C Db Ex d IIC, T6; Ex tb IIIC T65°C Db

TRIAC Valve position indicator model APL-5aab rated per table below:
Enclosure Type 4X/6, IP 66/67

Where:

aa	Switch Type	Switch model number	Ambient temp.	Electrical ratings
10	2-SPDT	Wonwoo SZM-V16-5FA-61	-20°C to +60°C	250V max, 4A max.
11	3-SPDT	Wonwoo SZM-V16-5FA-61	-20°C to +60°C	250V max, 4A max.
12	4-SPDT	Wonwoo SZM-V16-5FA-61	-20°C to +60°C	250V max, 4A max.
13	2-SPST	Wonwoo SZM-V16-5FA	-20°C to +60°C	250V max, 4A max.
14	2-DPDT	Omron DZ-10GW-1B	-25°C to +60°C	250V max, 4A max.
15	2-SPDT + Potentiometer	Wonwoo SZM-V16-5FA-61	-20°C to +60°C	250V max, 4A max.
16	2-SPDT + Signal Unit	Wonwoo SZM-V16-5FA-61	-20°C to +60°C	250V max, 4A max.
20	Proximity sensor	P&F NJ2-V3-N	-25°C to +60°C	8.2V nom, 3mA nom.
22	Proximity sensor	P&F NJ4-12GM-N	-25°C to +60°C	8.2V nom., 3mA nom.
23	Proximity sensor	P&F NBB2-V3	-25°C to +60°C	30Vdc max, 100mA max.



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25	Proximity sensor+ Potentiometer	P&F NJ2-V3-N	-25°C to +60°C	8.2V nom, 3mA nom.
26	Proximity sensor + Signal Unit (4~20mA)	P&F NJ2-V3-N	-25°C to +60°C	8.2V nom, 3mA nom.
30	Reed switch	MK21 model 85	-40°C to +60°C	250 V max, 1A max
31	Reed switch	MK21 model 66	-40°C to +60°C	180 V max, 0.5 A max
32	Reed switch	MK21 model 90	-40°C to +60°C	175 V max, 0.5 A max
H1	2-SPDT micro-switch	11SX22-T	-50°C to +60°C	250 V max, 4 A max
H2	2-SPDT micro-switch	12SX1-T	-50°C to +60°C	125 V max, 1A max
H3	2-SPDT micro-switch	13SX21-T	-50°C to +60°C	125V max, 1A max
H4	4-SPDT micro-switch	11SX22-T	-50°C to +60°C	250 V max, 4A max
H5	4-SPDT micro-switch	12SX1-T	-50°C to +60°C	125 V max, 1A max
H6	4-SPDT micro-switch	13SX21-T	-50°C to +60°C	125 V max, 1A max
	b	Body Material Type	-	-
		N = Aluminum	-	-
		S = Stainless Steel	-	-

Note: The electrical ratings of the internal switch component dictate the equipment electrical ratings, but not to exceed 250 V max and 4 A max equipment electrical rating

APPLICABLE REQUIREMENTS

CAN/CSA-C22.2 No. 0-10 <i>August 2011</i>	General requirements — Canadian Electrical Code, Part II
C22.2 No. 14-10 <i>Eleventh Edition, through Update No. 2: August 2011</i>	Industrial Control Equipment
CAN/CSA-C22.2 No. 94.1-07 <i>First Edition (Reaffirmed 2012)</i>	Enclosures for Electrical Equipment, Non-Environmental Considerations
CSA C22.2 No. 94.2-07 <i>First Edition (Reaffirmed 2012)</i>	Enclosures for Electrical Equipment, Environmental Considerations
CAN/CSA-C22.2 No. 60529:05 <i>(July 2005)</i>	Degrees of protection provided by enclosures (IP Code)
CAN/CSA Standard C22.2 No. 25-M1966 <i>Reaffirmed 2009</i>	Enclosures for Use in Class II Groups E, F, and G Hazardous Locations
CSA C22.2 No. 30-M1986 <i>(Reaffirmed 2012)</i>	Explosion-Proof Enclosures for Use in Class I Hazardous Locations
CAN/CSA-C22.2 No. 60079-0:11 <i>(December 2011)</i>	Explosive atmospheres – Part 0: Equipment – General requirements
CAN/CSA-C22.2 No. 60079-1:11 <i>(December 2011)</i>	Explosive atmospheres – Part 1: Equipment protection by flameproof enclosures “d”



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CAN/CSA-C22.2 No. 60079-31:15	Explosive atmospheres — Part 31: Equipment dust ignition protection by enclosure “t”
ANSI/UL 508-2008 <i>Seventeenth Edition (with Updates through April 15, 2010)</i>	Industrial Control Equipment
ANSI/UL 50-2007 <i>Twelfth Edition (September 4, 2007)</i>	Enclosures for Electrical Equipment, Non-Environmental Considerations
ANSI/UL 50E-2007 <i>First Edition (September 4, 2007)</i>	Enclosures for Electrical Equipment, Environmental Considerations
ANSI/UL 1203-2009 <i>Fourth Edition (October 28, 2009)</i>	Explosion-Proof and Dust-Ignition-Proof Electrical Equipment for Use in Hazardous (Classified) Locations
ANSI/UL 60079-0-2009 <i>Fifth Edition (October 21, 2009)</i>	Explosive atmospheres – Part 0: Equipment – General requirements
ANSI/UL 60079-1-2009 <i>Sixth Edition (April 10, 2009)</i>	Explosive Atmospheres – Part 1: Equipment Protection by Flameproof Enclosures “d”
ANSI/ISA-60079-31 (12.10.03)-2015	Explosive Atmospheres – Part 31: Equipment Dust Ignition Protection by Enclosure “t”
ANSI/IEC 60529 <i>Edition 2.1 2001-02</i>	Degrees of Protection Provided by Enclosures (IP Code)

MARKINGS

The manufacturer is required to apply the following markings:

- Products shall be marked with the markings specified by the particular product standard.
- Products certified for Canada shall have all Caution and Warning markings in both English and French.

Additional bilingual markings not covered by the product standard(s) may be required by the Authorities Having Jurisdiction. It is the responsibility of the manufacturer to provide and apply these additional markings, where

The products listed are eligible to bear the CSA Mark shown with adjacent indicators 'C' and 'US' for Canada and US (indicating that products have been manufactured to the requirements of both Canadian and U.S. Standards) or with adjacent indicator 'US' for US only or without either indicator for Canada only.

Nameplate adhesive label material approval information:

Markings appear on a minimum 0.02 inch thick aluminum or stainless steel nameplate, secured to the outside of the enclosure using non-removable fasteners in blind holes. The following marking details can be stamped, etched, silkscreened, molded or embossed on the nameplate:



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- Manufacturer's name: "A-T Controls, Inc.", or CSA Master Contract Number "258948", 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.
- Manufacturing date in MMY format, or serial number, traceable to year and month of manufacture.
- Enclosure ratings: As specified in the PRODUCTS section, above.
- The CSA Mark, as shown on the Certificate of Conformity.
- Hazardous Location designation: As specified in the PRODUCTS section, above.
- Method of Protection markings: As specified in the PRODUCTS section, above.
- Temperature code: As specified in the PRODUCTS section, above.
- The following words:
 - "OPEN CIRCUIT BEFORE REMOVING COVER" and "AVERTISSEMENT: OUVRIR LE CIRCUIT AVANT D'ENLEVER LE COUVERCLE" or "KEEP COVER TIGHT WHILE CIRCUITS ARE ALIVE" and "AVERTISSEMENT: GARDER LE COUVERCLE BIEN FERME TANT QUE LES CIRCUITS SONT SOUS TENSION."
 - "SEAL REQUIRED WITHIN 450MM (18 in) OF THE ENCLOSURE." and "UN SCELLEMENT DOIT ETRE INSTALLE A MOINS DE 450 MM DU BOITER" (*APL-4 only*)
 - "SEAL REQUIRED WITHIN 50MM (2 in) OF THE ENCLOSURE." and "UN SCELLEMENT DOIT ETRE INSTALLE A MOINS DE 50 MM DU BOITER" (*APL-5 only*)

An installation manual or data sheet shall be supplied with each unit, containing the following minimum marking information:

- Manufacturer's name and address
- Electrical ratings: As specified in the PRODUCTS section, above.
- Specification for ambient temperature rating: As specified in the PRODUCTS section, above.
- Specification for appropriate wiring to the connector, including definition of pin functions, and specification for wire gauge.
- Mounting and installation instructions.



Supplement to Certificate of Compliance

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The products listed, including the latest revision described below, are eligible to be marked in accordance with the referenced Certificate.

Product Certification History

Project	Date	Description
70014955	Nov. 18, 2014	Original Certification. Issue a New CofC for a Multiple Listing with A-T Controls, Inc. ID#4638921 (Model comparison with CSA Report 2607373).
70093598	Sept. 2, 2016	Evaluation to update Multiple Listing Report 70014955 with A-T Controls Inc., Model Comparison with Report 2607373, Project 70095903.

HKC Co. Ltrd.	A-T Controls, Inc.
APL-4aaN	APL-4aaN
APL-5aab	APL-5aab