



Certificate of Compliance

Certificate: 80010178

Master Contract: 270141

Project: 80083535

Date Issued: 2021-12-21

Issued To: CAPTRON Electronic GmbH
Johann-G.-Gutenbergstrasse 7
Olching, Bavaria, 82140
Germany

Attention: Mauro Bertolin

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

Issued by: *Andreas von der Brellie*
Andreas von der Brellie



PRODUCTS

CLASS - C225301 - INDUSTRIAL AUTOMATION PRODUCTS Industrial Automation Products

CLASS - C225381 - Industrial Automation Products Certified to US Standards

Capacitive Sensor Switches (model differences see next page) rated 24 Vdc (nominal)



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Models: CHT 1, CHT3, CHT4; CHT5, CHT6, CHT7, CANEO series10, safeCAP SC30, safeCAP SC4, CANEO series4x, CANEO series10 Hygienic, CANEO series10 X Signal

<p>CHT1 electrical characteristics: Operating Voltage: 10 – 30 V dc Power Consumption: 30 mA Relays contact load: 400 mA Operating Temperature: -30 °C to + 70 °C IP for front of EUT: IP69K max. altitude: 2000 m</p>	<p>CHT3 electrical characteristics: Operating Voltage: 16.8 – 32 V dc Power Consumption: 200 mA Relays contact load: 400 mA Operating Temperature: -30 °C to + 80 °C IP for front of EUT: IP69K max. altitude: 2000 m</p>
<p>CHT4 electrical characteristics: Operating Voltage: 16.8 – 32 V dc Power Consumption: 200 mA Relays contact load: 400 mA Operating Temperature: -30 °C to +80 °C IP for front of EUT: IP69K max. altitude: 2000 m</p>	<p>CHT5 electrical characteristics: Operating Voltage: 16.8 – 32 V dc Power Consumption: 30 mA Relays contact load: 400 mA Operating Temperature: -30 °C to +70 °C IP for front of EUT: IP69K max. altitude: 2000 m</p>
<p>CHT6 electrical characteristics: Operating Voltage: 16.8 – 32 V dc Power Consumption: 20 mA Relays contact load: 400 mA Operating Temperature: -30 °C to +80 °C IP for front of EUT: IP69K max. altitude: 2000 m</p>	<p>CHT7 electrical characteristics: Operating Voltage: 16.8 – 32 V dc Power Consumption: 130 mA Relays contact load: 400 mA Operating Temperature: -30 °C to + 80 °C IP for front of EUT: IP69K max. altitude: 2000 m</p>
<p>CANEO series10 electrical characteristics: Operating Voltage: 8.4 – 32 V dc Power Consumption: 40 mA Relays contact load: 200 mA Operating Temperature: -30 °C to + 65 °C IP for front of EUT: IP69K max. altitude: 2000 m</p>	<p>safeCAP SC30 electrical characteristics: Operating Voltage: 24 V dc Power Consumption: 20 mA Relays contact load: 100 mA Operating Temperature: -25°C to +75°C IP for front of EUT: IP69K max. altitude: 2000 m</p>



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<p>safeCAP SC4 electrical characteristics:</p> <p>Operating Voltage: 24 V dc Power Consumption: 65 mA Relays contact load: 200 mA Operating Temperature: 0°C to +55°C IP for front of EUT: IP69K max. altitude: 2000 m</p>	<p>CANEO series10 Hygienic electrical characteristics:</p> <p>Operating Voltage: 24 V dc Power Consumption: 20 mA Relays contact load: 200 mA Operating Temperature: -30°C to +65°C IP for front of EUT: IP69K max. altitude: 2000 m</p>
<p>CANEO series4x electrical characteristics:</p> <p>Operating Voltage: 12-24 V dc (+/-30%) Power Consumption: 90 mA Relays contact load: 200 mA Operating Temperature: -25°C to +50°C IP for front of EUT: IP69K max. altitude: 2000 m</p>	<p>Nomenclature for CANEO series4x</p> <ul style="list-style-type: none"> • series40 Puck • series40 Puck Display • series41 Standard • series41 Standard Display • series41 Solid • series41 Solid Display <p>The models of the CANEO series4x have the same electronic components and layouts. They differ only in the equipment with display and without display as well as in the design and dimensions of the housing.</p>
<p>CANEO series10 X Signal electrical characteristics:</p> <p>Operating Voltage: 8.4 – 32 V dc Power Consumption: 40 mA Relays contact load: 200 mA Operating Temperature: -30 °C to + 80 °C IP for front of EUT: IP69K max. altitude: 2000 m</p>	<p>Nomenclature for CANEO series10 X Signal</p> <ul style="list-style-type: none"> • series 10 Hygienic Signal • series 10 Standard Signal • series 10 Stainless Steel Signal <p>The models of the CANEO series10 X Signal have the same electronic components and layouts. They differ only in Hygienic variant (Hygienic Signal with Hygienic Gasket), Standard Signal variant and Stainless-Steel Signal variant</p>
<p>Supplementary information:</p> <p>The models which will be certified in this report differ in dimensions and stripped-down functions: Models CHT1, CHT 4 and CANEO series10 were considered as representative for all other models due to max. ratings and behavior under load conditions. IP69K: according to IEC 60529 with additional ISO 20653 (Refer to Att8 IP69K report and Att9 IP Test report</p>	



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Conditions of Acceptability:

- 1 EUT has to be supplied by a limited power source (not part of investigation) which fulfils the requirements of 6.3.1/6.3.2 and 9.4 of CSA/UL/EN/IEC61010-1:2010 or class 2 according to CSA223/UL1310.
- 2 Equipment has only been tested for electrical safety. No evaluation of functional safety or EX-approval have been performed.

APPLICABLE REQUIREMENTS

CAN/CSA-C22.2 No. 61010-1-12	- Safety Requirements for Electrical Equipment for Measurement, Control, and Laboratory Use, Part 1: General Requirements
CAN/CSA-C22.2 No. 61010-2-201-14	- Safety Requirements for Electrical Equipment for Measurement, Control, and Laboratory Use - Part 2-201: Particular requirements for control equipment
UL Std. No. 61010-1 (3rd Edition)	- Safety Requirements for Electrical Equipment for Measurement, Control, and Laboratory Use - Part 1: General Requirements
UL 61010-2-201 (1st Edition)	- Safety Requirements for Electrical Equipment for Measurement, Control, and Laboratory Use - Part 2-201: Particular requirements for control equipment

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 applicable, in accordance with the requirements of those authorities.

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.

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Laser printed directly on enclosure components for the following models:

- CANEO series4x
 - series40 Puck
 - series40 Puck Display
 - series41 Standard
 - series41 Standard Display
 - series41 Solid
 - series41 Solid Display
- safeCAP SC30

Laser printed on marking label for the following models:

- CHT1,
- CHT3,
- CHT4,
- CHT5,
- CHT6,
- CHT7,
- safeCAP SC4
- CANEO series10
- CANEO series10 Hygienic
- CANEO series10 X Signal

Notes:

Products certified under Class C225301, C225381 have been certified under CSA's ISO/IEC 17065 accreditation with the Standards Council of Canada (SCC). www.scc.ca





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
80083535	2021-12-21	Update to Report 80010178 to add new marking method and components to LOCC and to add new models safeCAP SC30, safeCAP SC4, Caneo series 4x, CANEO series10 Hygienic and CANEO series10 X Signal without testing.
80033676	2020-02-12	Update to Report 80010178 to cover change of model name CHT10 to CANEO series10.
80010178	2019-12-20	Original Certification of capacitive sensor switch, models CHT 1, CHT3, CHT4; CHT5, CHT6, CHT7, CS10 to C22.2 No 61010-1-12 / UL 61010-1 (3rd Ed). CLASS 2253-01, 2253-81