



Certificate of Compliance

Certificate: 80109435

Master Contract: 153857

Project: 80133462

Date Issued: 2022-09-19

Issued To: Vega Grieshaber KG
Am Hohenstein 113
Schiltach, Baden-Württemberg, 77761
Germany

Attention: Matthias Kunz

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: Sorin Tat
Sorin Tat



PRODUCTS

CLASS - C225802 - PROCESS CONTROL EQUIPMENT For Hazardous Locations

CLASS - C225882 - PROCESS CONTROL EQUIPMENT For Hazardous Locations - Certified to US Standards

Stainless Steel Version:

Ex ta/tc IIIC T₂₀₀ 130°C/T110°C Da/Dc

Zone 20 / Zone 22 AEx ta/tc IIIC T130°C/T110°C Da/Dc

Ex tb/tc IIIC T120°C/T110°C Db/Dc

Zone 21 / Zone 22 AEx tb/tc IIIC T120°C/T110°C Db/Dc

Ex tc IIIC T120°C/T110°C Dc

Zone 22 AEx tc IIIC T120°C/T110°C Dc

Plastic Version:





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Ex ta/tc IIIC T₂₀₀ 130°C/T100°C Da/Dc
Zone 20 / Zone 22 AEx ta/tc IIIC T130°C/T100°C Da/Dc
Ex tb/tc IIIC T120°C/T100°C Db/Dc
Zone 21 / Zone 22 AEx tb/tc IIIC T120°C/T100°C Db/Dc
Ex tc IIIC T120°C/T100°C Dc
Zone 22 AEx tc IIIC T120°C/T100°C Dc

Type 6P (option with M12 connector and M12 full metal connector)

Impedance level switch Models VEGAPOINT 21; VEGAPOINT 23 and VEGAPOINT 31; 12-35 Vdc (absolute values), Current consumption ≤ 1 W, Transistor output current: max. 250 mA. Ambient temperature range -40 °C to +70 °C

Conditions of Acceptability:

- The equipment incorporates different ambient and process temperature ranges, follow the instruction manual regarding temperature limitations.
- If the socket is not connected to a plug it shall be protected from environmental influences.
- The sensor tip of the equipment shall be protected from UV light. The M12 socket of the stainless-steel version shall be protected from UV light.
- Follow the instruction manual to avoid electrostatic charge of non-metallic enclosure materials.
- The equipment shall be permanently connected to earth via the process connection.
- The equipment was tested to the low risk of mechanical danger, special advises are given in the instruction manual.
- The device may only be powered by a power supply unit with a limited energy electric output rated 35 V dc max in accordance with CAN/CSA-C22.2 No. 61010-1-12 / UL Std. No. 61010-1 (3rd Edition) chapter 6.3.1/6.3.2 and 9.4 or Class 2 according to CSA 223/UL 1310.
- Equipment has only been tested for electrical safety. No evaluations of functional safety and performance characteristics have been performed.
- Wiring method should be done as per Section 18-190 and 18-250 from CEC Part I and NEC Article 506.15 for Zone 20 and Zone 22.
- Leakage and rupture from fluids under pressure of the device mounted in end application, needs to be tested in end use. Corresponding impact test may also be applied in end use.
- The following process temperature information shall be considered as part of the installation of the equipment

Plastic Version:

Process temperature	Maximum allowed ambient temperature
-40 °C to 90 °C	70 °C
≤ 95 °C	67 °C
≤ 100 °C	63 °C
≤ 105 °C	58 °C



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≤ 110 °C	54 °C
≤ 115 °C	50 °C

Stainless steel version:

Process temperature	Maximum allowed ambient temperature
-40 °C to 110 °C	70 °C
≤ 115 °C	68 °C

- The following information should be applied for the assignment of the maximum surface temperature for the equipment

Version	Certification Code	Maximum surface temperature – Sensor tip	Maximum surface temperature – Enclosure (beyond the thread)
Plastic Version	Ex ta/tc	130°C	100°C
	Ex tb and Ex tc	120°C	100°C
Stainless steel version	Ex ta/tc	130°C	110°C
	Ex tb and Ex tc	120°C	110°C

APPLICABLE REQUIREMENTS

*CAN/CSA C22.2 No. 61010-1-12 + Amd 1 – 18	Safety Requirements for Electrical Equipment for Measurement, Control, and Laboratory Use – Part 1: General Requirements
CAN/CSA C22.2 No. 60079-0:19	Explosive atmospheres – Part 0: Equipment – General requirements
CAN/CSA C22.2 No. 60079-31:15 (R2020)	Explosive atmospheres – Part 31: Equipment dust ignition protection by enclosure "t"
*ANSI/UL 61010-1-2018 <i>Third Edition</i>	Safety Requirements for Electrical Equipment for Measurement, Control, and Laboratory Use — Part 1: General Requirements
ANSI/UL 60079-0-2020 <i>Seventh Edition</i>	Explosive atmospheres – Part 0: Equipment – General requirements
ANSI/UL 60079-31-2015 <i>Second Edition</i>	Explosive Atmospheres – Part 31: Equipment Dust Ignition Protection by Enclosure “t”

*Evaluated to the requirements of ANSI/UL and CSA C22.2 No. 61010-1 as part of CSA Report 153857-70218323

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.



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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.

The following markings are provided via laser marking on the conical surface of the body of the equipment.

- Manufacturer's name: "Vega Grieshaber KG"; or CSA Master Contract Number "153857", adjacent to the CSA Mark in lieu of manufacturer's name.
- Model designation: 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, or serial number, traceable to year and month of manufacture.
- Enclosure ratings: As specified in CSA Report 153857-70218323.
- The CSA Mark, with or without the "C" and "US" indicators, as shown on the Certificate of Conformity.
- The designation "CSA 22CA80109435X".
- Hazardous Location equivalency designation: Class II, Division 2, Groups FG; Class III T120°C/T110°C (Stainless steel version) or Class II, Division 2, Groups FG; Class III T120°C/T100°C (Plastic versions). The word "Class" may be abbreviated "CL", the word "Division" may be abbreviated "DIV", and the word "Groups" may be abbreviated "GRP" or "GP".
- Method of Protection markings (Ex – markings): As specified in the PRODUCTS section, above. The word "Class" may be abbreviated "CL", the word "Zone" may be abbreviated "ZN".
- Temperature code: As specified in the PRODUCTS section, above.
- The manufacturing location shall be identified if the equipment can be produced in more than one facility.
- The words:
 - "WARNING – DO NOT SEPARATE WHEN ENERGIZED" and "AVERTISSEMENT – NE PAS SEPARER SOUR TENSION"
 - "FOR OTHER WARNINGS AND TEMPERATURE RATINGS - SEE INSTRUCTIONS" and "POUR D'AUTRES AVERTISSEMENTS ET PLAGES DE TEMPÉRATURE - VOIR MODE D'EMPLOI"

Notes:



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Products certified under Class C225802, C225882 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
80133462	2022-09-19	Evaluation for Update Report 80109435 to add ESD diode to Sensor Trip PCB and increase working pressure from 25 bar to 64 bar.
80109435	2022-02-10	Original cCSAus certification of level switch series VEGAPOINT 21, VEGAPOINT 23 and VEGAPOINT 31 for use in Class II and III, Division 2, Groups F and G and dust ignition protection by enclosure Ex ta, tb and tc. Based on IECEx SIR 20.0011X and CSA Report 70218323 for 61010-1.

