

# Ordinary Location VEGAPULS 6X

CSA 80101778



Document ID: 1014239



# VEGA





# Certificate of Compliance

**Certificate:** 80101778

**Master Contract:** 153857

**Project:** 80101778

**Date Issued:** July 14, 2022

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

**Attention:** Lena Benz

*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:** Halley McLaren  
Halley McLaren



## PRODUCTS

CLASS - C225206 - PROCESS CONTROL EQUIPMENT Process Control Equipment

CLASS - C225286 - PROCESS CONTROL EQUIPMENT Certified to US Standards

Radar sensors for non-contact level measurement of liquids and bulk solids, model series, VEGAPULS 6X, rated: 12-35 Vdc, signal output 4-20 mA, Current consumption ≤ 1 W, IP66/IP68, Type 6P

**Nomenclature:**

Model code: PS6X(Z)(\*)a-b-c-de-f-g-hi-j-k-l-m-no-p-q-r-s-t-u

(Z) = place holder for private label versions, not used for original VEGA product

(\*) = potential additional digits for internal use, not relevant for safety



**Certificate:** 80101778  
**Project:** 80101778

**Master Contract:** 153857  
**Date Issued:** July 14, 2022

- a = sensor generation, can be "2"
- b = filter for customer application, not relevant for construction or safety
- c = radar technology, can be "W"
- de = two digit code for process connection/fitting according to national/international standards, not relevant for safety
- f = antenna version, can be "B", "T", "F" or "C"
- g = additional equipment, can be "X", "K", "V" or "1"
- hi = two digits to specify gasket/sealing material and process temperature range, can be "AA", "AB", "AC", "AD", "AE", "AF", "AG", "AH", "AJ", "AK", "AL", "AT", "AU", "AV", "AW", "AX", "AY", "AZ", "A2", "A3", "A4" or "A5"
- j = housing/enclosure version, can be "A", "H", "3", "9", "D", "S", "4", "V", "5", "8", "Z" or "W"
- k = cable entry, either metric or NPT, optionally with suitable and approved cable glands or connectors
- l = optional integrated display module, can be "X", "A", "F", "H", "B", "K" or "L"
- m = electronics version, can be "H" or "A"
- no = two digits for additional Hazardous Location certification, not relevant for Ordinary Location certification
- p = additional SIL certification, not relevant for Ordinary Location certification
- q = additional IT security certification, not relevant for Ordinary Location certification
- r = additional overfill protection certification, not relevant for Ordinary Location certification
- s = additional food/pharma certification, not relevant for Ordinary Location certification
- t = additional ship/marine certification, not relevant for Ordinary Location certification
- u = second line of defense, not relevant for Ordinary Location certification

**Notes:**

1. The above models are not directly connected to a supply MAINS. They are supplied by separately approved Power Supply Unit (not part of investigation) which output fulfills the requirements of 6.3.1/6.3.2 and 9.4. The models are permanently connected with a non-detachable power supply cord). Pollution degree 4
2. Mode of operation: Continuous
3. Environmental Conditions: ambient temperature: -40 °C to +80 °C, Outdoor use (wet location), Altitude up to 5000 m, Rel. humidity: up to 100% non-condensing.

**Conditions of Acceptability:**

1. The device may only be powered by a power supply unit with a limited energy electric circuit max. 35 Vdc output in accordance with CAN/CSA-C22.2 No. 61010-1-12 / UL Std. No. 61010-1 (3<sup>rd</sup> Edition) chapter 6.3.1/6.3.2 and 9.4 or class 2 according to CSA 223/UL 1310.
2. Equipment is only to be installed by trained personal in accordance to the installation, set-up, operation and maintenance of comparable devices and certified as being capable of such work.



**Certificate:** 80101778  
**Project:** 80101778

**Master Contract:** 153857  
**Date Issued:** July 14, 2022

## APPLICABLE REQUIREMENTS

### CSA Standards:

CAN/CSA C22.2 No. 61010-1-12, - Safety Requirements for Electrical Equipment for Measurement,  
 UPD1: 2015, UPD2: 2016, AMD1: Control, and Laboratory Use, Part 1: General Requirements  
 2018

### UL Standards:

UL 61010-1, 3rd Edition (2012), - Safety Requirements for Electrical Equipment for Measurement,  
 AMD1: 2018 Control, and Laboratory Use - Part 1: General Requirements



*Supplement to Certificate of Compliance*

**Certificate:** 80101778

**Master Contract:** 153857

*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
80101778	2022-07-14	New certification for radar sensor, VEGAPULS 6X series, supply voltage 12-35Vdc, limited energy as per 61010-1. Enclosure ratings: type 6P, IP66/68



Printing date:

# VEGA

All statements concerning scope of delivery, application, practical use and operating conditions of the sensors and processing systems correspond to the information available at the time of printing.

Subject to change without prior notice

© VEGA Grieshaber KG, Schiltach/Germany 2022

1014239-EN-220719

VEGA Grieshaber KG  
Am Hohenstein 113  
77761 Schiltach  
Germany

Phone +49 7836 50-0  
E-mail: [info.de@vega.com](mailto:info.de@vega.com)  
[www.vega.com](http://www.vega.com)