



IECEx Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification System for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.:	IECEx EESF 20.0012X	Page 1 of 5	<u>Certificate history:</u>
Status:	Current	Issue No: 0	
Date of Issue:	2020-05-27		
Applicant:	Neles Finland Oy Vanha Porvoontie 229 P.O. Box 304 Vantaa FI-01301 Finland		
Equipment:	Local control panel LCP9H or LCP9HW		
Optional accessory:	n/a		
Type of Protection:	Intrinsic safety "ia"		
Marking:	Ex ia IIC T6...T4 Gb		

Approved for issue on behalf of the IECEx
Certification Body:

Jenni Hirvelä

Position:

Senior Expert

Signature:
(for printed version)

Date:

2020-05-27

1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting www.iecex.com or use of this QR Code.



Certificate issued by:

Eurofins Expert Services Oy
Kivimiehentie 4
FI-02150 Espoo
Finland



Expert Services



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Manufacturer: **Neles Finland Oy**
Vanha Porvoontie 229
P.O. Box 304
Vantaa FI-01301
Finland

Additional
manufacturing
locations: **Scanfil OÜ**
Vana Sauga 40
EE-80010 Pärnu
Estonia

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements. This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended

STANDARDS :

The equipment and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards

IEC 60079-0:2017 Explosive atmospheres - Part 0: Equipment - General requirements
Edition:7.0

IEC 60079-11:2011 Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
Edition:6.0

This Certificate **does not** indicate compliance with safety and performance requirements other than those expressly included in the Standards listed above.

TEST & ASSESSMENT REPORTS:

A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in:

Test Report:

[FI/EESF/ExTR20.0012/00](#)

Quality Assessment Report:

[NO/DNV/QAR09.0008/10](#)



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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

Local Control Panels are meant to be used together with VG9000H safety valve controller. The LCP9H has a Open/Close Button to manually drive the valve to fail-safe position. LCP9HW operation is similar but without Open/Close Button. The both types will be used to operate the emergency isolation valve locally by sending requests to VG9000H controller and receiving information of current valve status from the controller. Functions of the LCP9H are driving the valve to fail-safe position, resetting the valve to normal operation and testing the valve operation manually. Functions are activated by push-button switches mounted to LCP enclosure. Five LED-indicators show the status of current function. All buttons can be equipped with lockable stainless steel button covers to prevent accidental use. All metal parts of the enclosure are galvanically connected to each other. The LCP9H/LCP9HW has two interfaces. Power is normally supplied via Ex isolator. The Current loop bus for communication between LCP9H/LCP9HW and VG9000H is point-to-point type control protocol. The Suffix Y in the product type marking means special construction, which does not affect the types of protection.

SPECIFIC CONDITIONS OF USE: YES as shown below:

The maximum allowed ambient temperature range:

-20 °C ... +65 °C for temperature class T6

-20 °C ... +80 °C for temperature class T5

-20 °C ... +85 °C for temperature class T4

The permissible ambient temperature range depends on the used configuration. The ambient temperature range is marked on the identification plate.

The certified types do not comply with the dielectric strength requirement for isolation from earth. Instructions shall include necessary information regarding the correct installation.

The valve controller shall be connected according to the manufactures instructions.

Although electronic circuits fulfill ia-requirements the equipment shall be used only in locations requiring EPL Gb or Gc because the plastic parts are not fulfilling IIC Ga-requirements.



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Equipment (continued):

The maximum input values of the power supply are:

$U_i = 25,2 \text{ V}$

$I_i = 150 \text{ mA}$

$P_i = 650 \text{ mW}$

$C_i = 30 \text{ nF}$

$L_i = 252 \text{ }\mu\text{H}$

The maximum output values of the current loop communication interface channels A and B are:

$U_o = 9,8 \text{ V}$

$I_o = 47 \text{ mA}$

$P_o = 120 \text{ mW}$

$C_o = 3,3 \text{ }\mu\text{F}$

$L_o = 15 \text{ mH}$



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Additional information:

Original release of this CoC is IECEx VTT 10.0008X. CB name has been changed from VTT Expert Services to Eurofins Expert Services. Applicant name has been changed from Metso Flow Control to Neles Finland.