



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 20.0011X** Page 1 of 5 [Certificate history:](#)

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 Panels LCP9H, LCP9HW, LCP9HL and LCP9HWL**

Optional accessory: n/a

Type of Protection: **Increased safety "eb", encapsulation "mb" and Intrinsically Safe "[ib]"**

Marking: LCP9H and LCP9HW:
Ex eb mb [ib] IIC T6...T4 Gb
LCP9HL and LCP9HWL:
Ex eb mb [ib] IIC T4 Gb

Approved for issue on behalf of the IECEx
Certification Body:

Jenni Hirvelä

Position:

Senior Expert

Signature:
(for printed version)

Date:

2020-02-27

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

IEC 60079-18:2017 Explosive atmospheres - Part 18: Protection by encapsulation "m"
Edition:4.1

IEC 60079-7:2017 Explosive atmospheres - Part 7: Equipment protection by increased safety "e"
Edition:5.1

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/ExTR20.0011/00](#)

Quality Assessment Report:

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



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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

The Local Control Panels LCP9H, LCP9HW, LCP9HL and LCP9HWL are to be used together with VG9000H safety valve controller. 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 types 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 input of types LCP9H and LCP9HW is protected with $I_n = 80\text{mA}$ fuse with breaking capacity of at least $1500\text{ A @}250\text{ V DC/AC}$ and the input of types LCP9HL and LCP9HWL is protected with $I_n = 50\text{mA}$ fuse with breaking capacity of $4000\text{ A @}250\text{ V DC/AC}$. 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 for LCP9H and LCP9HW:

- 20 °C ... +48 °C for temperature class T6
- 20 °C ... +63 °C for temperature class T5
- 20 °C ... +65 °C for temperature class T4

The maximum allowed ambient temperature ranges for LCP9HL and LCP9HWL:

- 20 °C ... +55 °C for temperature class T6
- 20 °C ... +65 °C for temperature class T5
- 20 °C ... +65 °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.



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Equipment (continued):

Rated input voltages:

LCP9H and LCP9HW:

$U = 24 \text{ V DC}$

LCP9HL and LCP9HWL:

$U = 28 \text{ V DC}$

The Intrinsically Safe parameters of the current loop communication interface channels A and B with Level of Protection [ib] for LCP9H and LCP9HW are:

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

$I_o = 47 \text{ mA}$

$P_o = 120 \text{ mW}$

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

$L_o = 15 \text{ mH}$

The Intrinsically Safe parameters of the current loop communication interfaces with Level of Protection [ib] for LCP9HL and LCP9HWL are:

Tx Current Loop:

$U_o = 8.3 \text{ V}$

$I_o = 5.8 \text{ mA}$

$P_o = 12 \text{ mW}$

$C_o = 3.6 \mu\text{F}$

$L_o = 50 \text{ mH}$

Rx Current Loop:

$U_o = 8,3 \text{ V}$

$I_o = 18,9 \text{ mA}$

$P_o = 43 \text{ mW}$

$C_o = 3,6 \mu\text{F}$

$L_o = 50 \text{ mH}$



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Additional information:

Original release of this CoC is IECEx VTT 16.0011X. 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.