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 LCI 08.0036X**

Page 1 of 4

Issue No: 7

Certificate history:
Issue 6 (2019-07-05)
Issue 5 (2018-01-31)
Issue 4 (2013-04-05)
Issue 3 (2011-05-09)
Issue 2 (2010-08-20)
Issue 1 (2008-10-29)
Issue 0 (2008-08-07)

Status: **Current**

Date of Issue: 2020-12-03

Applicant: **nVent Thermal Belgium N.V**
Research Park Haasrode - Zone 2
Romeinse Straat 14
B-3001 Leuven
Belgium

Equipment: **Thermostat, type: RAYSTAT-EX-02**

Optional accessory:

Type of Protection: **Ex db, Ex tb**

Marking: Ex db IIC T6 Gb
Ex tb IIIC T80°C Db IP66
IECEx LCI 08.0036 X
See attachment for full marking.

Approved for issue on behalf of the IECEx Certification Body: **Julien GAUTHIER**

Position: **Certification Officer**

Signature: (for printed version)

LABORATOIRE CENTRAL DES INDUSTRIES ELECTRIQUES
S.A.S au capital de 15.745.984 €
RCS Nanterre B 408 363 174
33 avenue du Général Leclerc
F - 92266 FONTENAY AUX ROSES

Date: 2020-12-03

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:

Laboratoire Central des Industries Electriques (LCIE)
33 Avenue du General Leclerc
Fontenay-aux-Roses FR-92260
France

IECEx Certificate of Conformity

Manufacturer: **nVent Thermal Belgium N.V**
Research Park Haasrode - Zone 2
Romeinse Straat 14
B-3001 Leuven
Belgium

Additional manufacturing locations: **Barksdale, Inc.**
3211 Fruitland Avenue
Los Angeles, CA 90058
United States of America

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 60079-0:2011 Explosive atmospheres - Part 0: General requirements
Edition:6.0

IEC 60079-1:2014-06 Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
Edition:7.0

IEC 60079-31:2013 Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"
Edition:2

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 Reports:

FR/LCI/ExTR08.0042/00
FR/LCI/ExTR08.0042/01
FR/LCI/ExTR08.0042/02
FR/LCI/ExTR08.0042/03
FR/LCI/ExTR08.0042/04
FR/LCIE/ExTR17.0068/00
FR/LCIE/ExTR19.0065/00

Quality Assessment Reports:

GB/BAS/QAR07.0053/07
GB/CML/QAR20.0012/01

IECEx Certificate of Conformity

EQUIPMENT:
Equipment and systems covered by this Certificate are as follows:

Explosion-proof thermostat with an aluminium alloy enclosure, whose internal free volume is approximately 370 cm^3.
See attachment for more details.

SPECIFIC CONDITIONS OF USE: YES as shown below:
The flamepaths are specified with maximum gaps smaller than those shown in the standard and shall not be enlarged. The manufacturer should be consulted for values if required for maintenance etc.

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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)
Issue 00:
Certification according to IEC 60079-0:2004, IEC 60079-1:2003, IEC 61242-0:2004 and IEC 61241-1:2004 standards.
Issue 01:
Change of manufacturer: "BARKSDALE Inc." replaces "TYCO THERMAL CONTROLS".
Issue 02:
Technical file update.
Issue 03:
Modification of the manufacturing process to create the enclosure.
Technical file update.
Update of the ingress protection level (IP65).
Issue 04:
Normative update according to IEC 60079-0:2007, IEC 60079-1:2007 and IEC 60079-31:2008 standards.
Modification of applicant: "Pentair Thermal Management" replaces "TYCO THERMAL CONTROLS".
Update of the ingress protection level (IP66).
Issue 05:
Normative update according to IEC 60079-0:2011, IEC 60079-1:2014 and IEC 60079-31:2013 standards.
Update of specific conditions of use.
Issue 06:
Modification of applicant and manufacturer: "nVent Thermal Belgium N.V" replaces "Pentair Thermal Management".
Issue 07:
Modification of QAR reference for Additional manufacturing location (file LCIE #170109)

Annex:

IECEx LCI 08.0036X issue 07 - Annex.pdf

Annex 01 to Certificate
IECEx LCI 08.0036X issue 07

MARKING

nVent Thermal Belgium N.V
Type: RAYSTAT-EX-02
Serial number: …
Year of construction: …
Ex db IIC T6 Gb
Ex tb IIIC T80°C Db IP66
IECEx LCI 08.0036 X
-40°C ≤ T_{amb} ≤ +60°C

WARNING – DO NOT OPEN WHEN ENERGIZED.
Only use copper conductors suitable for 90°C

RANGE DETAILS

One type with several electrical parameters (see ratings).

RATINGS

6V, 12V, 24V, 125V, or 250V (DC)
125V, 250V, 480V, or 600V (AC)

ROUTINE TESTS

None.

APPARATUS OVERVIEW