

Load cell Instruction Manual

ZHONGHANG ELECTRONIC MEASURING INSTRUMENTS CO. LTD.

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ZHONGHANG ELECTRONIC MEASURING INSTRUMENTS CO. LTD.

Specifications and dimensions are subject to change without notice and do not constitute any liability whatsoever.

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Nr. 2021.06 Atex Load cell instruction manual Rev5

1/12

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Instruction Manual for Using Products

1. Introduction

These Instruction Manual refer to ZHONGHANG ELECTRONIC MEASURING INSTRUMENTS CO., LTD. Transducers load cells for potentially explosive atmospheres. These load cells are certified according to ATEX Directive 2014-34/EU. Please read the whole instruction before taking load cells into service. Never work on load cells for potentially explosive atmospheres if you do not have the knowledge, competence or authorization to do so. Load cells may only be used for their intended purpose and in the circumstances specified. ZHONGHANG ELECTRONIC MEASURING INSTRUMENTS CO., LTD. Transducers cannot be held liable for damage and injuries resulting from use other than those intended. Load cells must only be used in their correct technical condition and whilst conforming to the instructions of relevant application notes.

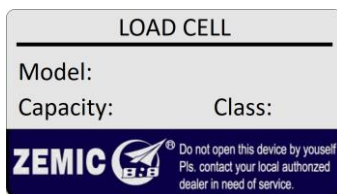
1.1 Product Description

Load cells convert mechanical force into an electrical signal. The element deforms elastically when subjected to a weight or force. ZHONGHANG ELECTRONIC MEASURING INSTRUMENTS CO., LTD. has load cells which are certified for use in a potentially explosive atmosphere. These load cells have a special mark:



1.2 Products Labelling

1.2.1 Internal Label in English:

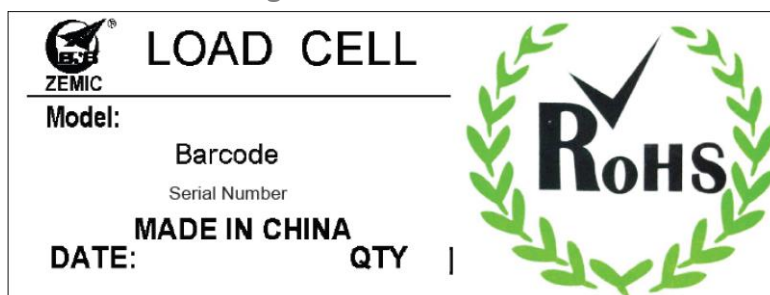


Standard product label (Sample)

Note1: Model and Capacity and Class. ZEMIC is the trademark of ZHONGHANG ELECTRONIC MEASURING INSTRUMENTS CO., LTD.

Note2: The label material is polyester film and the adhesive material is acrylic latex. The overall thickness of the label is 0.05mm. long*wide=37mm*21mm

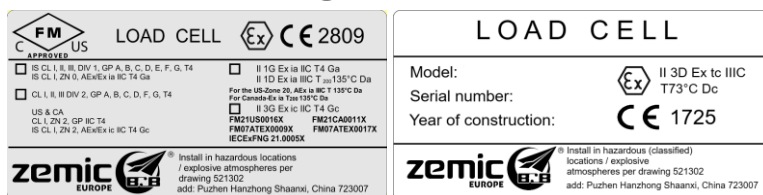
1.2.2 External Label in English:



Note1: Model. Note2: Bar code.

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1.2.3 Hazardous Area Markings:



1.3 Product identification and technical Specifications

Load cell specific information is printed on the Calibration Certificate. If this certificate is not included, contact your supplier. Cable colour codes should be checked against the Calibration Certificate.

2. Specific conditions for safe use

- (1) Using the box provided on the nameplate, the User shall permanently mark the type of protection chosen for the specific installation. Once the type of protection has been marked it shall not be changed.
- (2) The load cells do not have an earth ground terminal or conductor. The load cells shall be earth grounded as part of the final installation.
- (3) The non-metallic surfaces on the Load Cells enclosure may cause risk from electrostatic discharge. Avoid installation that could cause electrostatic build-up, and only clean with a damp cloth.

3. Installation

Install in hazardous (classified) locations / explosive atmospheres per drawing 521302.

Never use load cells in a potentially explosive atmosphere which are not correctly certified. Use shunt-diode barriers for load cell installation in potentially explosive atmospheres. When using more than one barrier channel in a circuit, ensure that the combination of voltages and currents can be safely applied in that particular hazardous area. Install load cells in accordance with the applicable EU. The circuit is to be considered as being connected to earth due to surge protection.

To prevent load cell from being damaged during installation, it is strongly recommended to use dummy load cells or mounting assemblies that can be "locked". Load cells should be handled with care, especially those with a low rated capacity or with metal bellows construction. When connecting polarized shunt-diode barriers, do not connect the wrong polarity. It will destroy the barrier! Cables used must always be suitable for the environment in which they are to be used. Many indicators compensate for line voltage losses by increasing their voltage output. Do not pass the compensation limit of the indicator! Never carry load cells by their cables.

Avoided electric welding after installation of load cells. If welding is necessary and the load cells can not be removed then disconnect each individual load cell cable from the junction box or measuring device. In order to avoid a current path through the load cells, place an earthing clamp in the close proximity of the weld. Furthermore, connect a flexible copper lead over each load cell.

Never use mounting bolts to pull uneven surfaces together-use shims as appropriate. Never use excessive force when fitting or tightening mounting bolts or hardware, especially on low capacity cells. Do not twist "S" cells when tightening threaded fittings.

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4. Use and Maintenance

4.1 Please note that load cells may be damaged because of (shock) overloading, lightning strikes or heavy surges. Also current, chemical or moisture ingress, mishandling (dropping, lifting with cable, etc), vibration, seismic events or internal component malfunction, may cause the loadcell to be damaged. Inspect the loadcells before and after every season. Give special attention to critical areas of the load cell such as metal bellows, seals etc. Regularly inspect for corrosion damage to the load cell and mounting hardware. If practically possible, carry out cleaning and perform remedial work (paint or other protective coating). Do not allow build-up of debris around load cells or mounts.

4.2 Maintenance Tools and the essential characteristics of tools which may be fitted to the equipment contains:

- a) A 4 1/2 digital multimeter to measure resistance, voltage, current and capacitance, etc.
- b) An all-around composite screwdriver to open integrated weighing instruments, the specification includes 4", 6", 8";
- c) Tweezers, the specification includes 6", 8";

A long nosed pliers, the specification includes 6", 8";

A 30w internal heating type earthing electric iron, rosin and soldering wires.

A pair of scissors, the specification includes 5", 7";

An assorted file, the specification includes 4", 6";

A standby Load cell and a set of weights.

4.3 Maintenance and Service Proceedings

In order to ensure the instruments, scale to be used normally and prolong their lifetime, we must obey to the following rules:

- (1) Do not use indicators under strong sunlight, the placing area should be flat
- (2) When Load cell is putted it in a place full of dusts, please remove dust termly.
- (3) Weight (including tare weight) forbids exceeding maximum rated amount.
- (4) If the machine can't be used for a long time, power supply switch should be taken off from power supply which can be very good connection to earth.
- (5) Forbid using strong solvent (e.g.) to clean shell.
- (6) Forbid soaking water in indicator.
- (7) If there is some problem occurring in the process of using, please cut power supply and stop trying if he is non-professional operators and give indicator to repair in professional office.
- (8) Don't change circuit or some electronic parts of an apparatus models connected with circuit.

4.4 Repairmen and maintaining service

(1) Our company can provide one year maintaining guarantee service for selling products (including some platform scale, table scale, truck scale, vehicle scale and so on. The maintaining guarantee service begins from selling day and each year our company will provide technical service after sales for all the products sometime.

(2) During maintaining guarantee service time if our products exist problems which are caused not by customers' wrong operation or non-force majeure natural disaster, our company will have responsibility to repair.

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(3)Our company doesn't agree customers to repair by themselves to avoid expand problems. If due to customers' repairman occurs extra problems even it is in maintaining guarantee service time our company will not provide free service.

(4)Generally speaking, when non- load cells customers or non- weighing instrument customers use our products if the problems occur, the products should be sent to company or inform company engineers' problems condition by fax to solve the problem in short time and correct methods.

5. Failure Analysis and guidance on potential misuse

| 5.1 Failure Phenomenon | 5.2 Cause analysis | 5.3 Guidance |
|--|--|--|
| After assembly of a scale, the reading of empty load is big and hard to set to zero. | The Load Cell might have been overloaded and plastically deformed due to shock load or impact load. The mounting and load introduction might not be correct and influence the free deflection of the load cell. | Disconnect all load cells from electronics. Re-connect one by one and check the individual zero readings. If one with exceptional high or low reading than replace that unit. Check all installations if no external factors are influencing the free deflection of the load cell. |
| Weighing capacity error varies directly with the increase of load, use multimeter to measure input and output impedance, one line or several lines and other lead wires' resistances are very large. | Load cells' outgoing lines or connection terminals are being stroke, pressed or stretched and make the circuit in the wire brake. | The outgoing line should be protected with spring sheath, thus avoid the lead wire from being extended or pressed to slot. Because of foundation pit, do trial assembly many times and remove load cells if possible. |
| Use multimeter to measure input and output impedance, the resistances are 1100-1410Ω(bridge resistance 700Ω)or 500-710Ω(bridge resistance 350Ω) | Being lighted or stroke by strong current or voltage impulse, bridge arm is burned | Adapt up-side-down mounting, that is to say, backward under the weighing platform; give priority to ground mounting by setting slope to two ends. If designing foundation pit, blowing pipe diameter should meet the demand for water discharge on rainy days. |
| Lower sensitivity, poor interference-resistant, widespread fluctuation of weighing capacity data. | The shield connected to other resources (with charge). | If the shield is not needed, pack it with insulating tape and put it into junction box to avoid the touch with bridge-type connection terminal. |
| No zero return | The speed on vehicle scale may be too fast. | The speed should be limited within 10km/h. |

Rick to life! : Under no circumstances should fault location and trouble-shooting be attempted in a hazardous area where there is danger of explosion. ZHONGHANG ELECTRONIC MEASURING INSTRUMENTS CO., LTD. authorized personnel may only carry out trouble-shooting and repair. Should a load cell cease to function, do not just reconnect: Mechanical failure may have catastrophic effects.

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Never use a Megohmmeter to measure input or output resistance, as they normally operate at voltages far in excess of maximum load cell excitation voltages!

6. Warning:

TO PREVENT IGNITION OF FLAMMABLE OR COMBUSTIBLE ATMOSPHERES, DISCONNECT POWER BEFORE SERVICING.

Pour éviter l'inflammation de gaz inflammables ou inflammables, couper l'alimentation avant l'entretien.

POTENTIAL ELECTROSTATIC CHARGING HAZARD-SEE INSTRUCTIONS .

Risque potentiel de charge électrostatique - voir instructions.

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Attachment 1

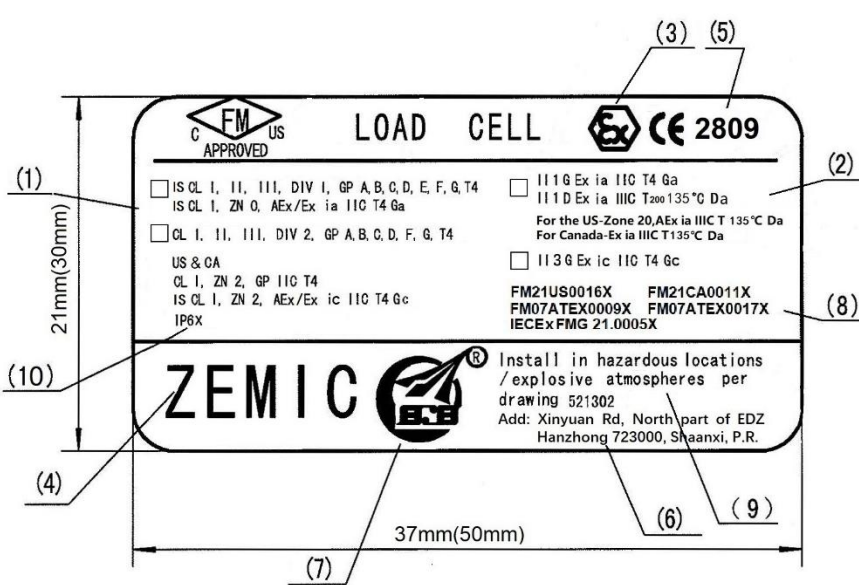
Drawing no. BP

表面粗糙度

热处理

表面处理

EX



(1), FM CLASS

(2), ATEX CLASS

(3), TARGET DIRECTIVE MARKING

(4), THE ZHONGHANG ELECTRONIC MEASURING INSTRUMENTS CO.,LTD

(5), THE NAME OR MARK FO THE ISSUER OF THE CERTIFICATE

(6), ZEMIC'S ADDRESS

(7), REGISTERED TRADEMARK OF ZEMIC

(8), FM AND ATEX CERTIFICATION NUMBRE

(9), INSTALLATION DRAWING

(10),INSERT THE APPROPRIATE IP CODE BY ZEMIC'S MODEL

NOTE: The adhesive is permanent acrylic latex. The overall thickness of the lable is 0.05mm.

| | | | | Name | | Drawing no. | |
|--|--|--|--|-------------------------|--|-----------------|--|
| | | | | Label | | BP | |
| | | | | Material | | 图样标记重量比例 | |
| | | | | Polyester film 0.05 PET | | S | |
| | | | | | | 共 1 页 第 1 页 第 版 | |
| | | | | | | (B) | |

Revision: 2.0

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DIVISION 1, ZONE 0, 1, 20 * OR 21 * HAZARDOUS LOCATION

Class I, II, III, Division 1, applicable Groups ABCDEFG
 Class I, Zone 0, 1, Group IIC, IIB, IIA
 Zone 0, 1, Group IIC, IIB, IIA
 T4, Ta = 40°C
 ATEX Only; Zone 20, 21, T135°C, Ta=40°C

LOAD CELL ELECTRICAL

Load Cell-When connected by a single associated apparatus
 Vmax, Ui=16V, Imax, Ii=420mA
 Pi=4.2W
 Ci=12 nF (at integral cable length of 200 Feet)
 Li=40 uH (at integral cable length of 200 Feet)

Load Cell-When connected by multiple paralleled associated apparatus
 Vmax, Ui=20V, Imax, Ii=309mA
 Pi=1.545W
 Ci=12 nF (at integral cable length of 200 Feet)
 Li=40 uH (at integral cable length of 200 Feet)

NO CHANGES ARE TO BE MADE TO THIS DRAWING WITHOUT WRITTEN APPROVAL OF FM APPROVALS

NON HAZARDOUS LOCATION

Vt, Voc or Uo ≤ 20V
 It, Isc or Io ≤ 309 mA
 (See Note 2)
 Po ≤ 1.545W
 Ca or Co ≥ Ccable + Ci
 La or Lo ≥ Lcable + Li

Notes for intrinsically safe installations:

- The associated apparatus shall be a single entity-Approved/Certified associated apparatus device with outputs that are Approved/Certified for parallel connection of field wiring within the applicable hazardous location / explosive atmosphere. Within the United States, the voltage and current parameters of such associated apparatus are commonly identified using the parameters Vt (voltage, total) and It (current, total). The use of multiple associated apparatus that are not Approved/Certified for use in combination with one another as a system is only permitted as specified in Note 2.
- The use of multiple entity-Approved/Certified associated apparatus / barriers which have not been Approved/Certified in combination with one another is restricted to the following conditions:
 - The associated apparatus /barriers shall all have DC outputs of the same polarity.
 - The associated apparatus /barriers shall have an open-circuit voltage (Voc, Vt or Uo) not exceeding 20V.
 - The sum of the output current (Isc, It or Io) of all of the associated apparatus/barriers shall not exceed 309 mA.
 - The sum of the available power (Po) of all of the associated apparatus / barriers shall not exceed 1.545W.
 - Ci + Ccable (total) shall not exceed the lowest Ca or Co for the associated apparatus / barriers.
 - Li + Lcable (total) shall not exceed the lowest La or Lo for the associated apparatus / barriers.
 - The outputs of all associated apparatus/barriers shall be linear. If necessary, contact barrier manufacturer for confirmation of linearity.
- US installation shall be in accordance with the National Electrical Code, ANSI/ISARP120601 and applicable local codes. Canadian installations shall be in accordance with the Canadian Electrical Code, Part I and applicable local codes. European Union ATEX installations shall be in accordance with applicable national and local codes.
- Electrical equipment connected to associated apparatus / barrier(s) shall not use or generate more than 250V.
- Associated apparatus / barrier(s) shall be Approved/Certified with Entity / Energy Limitation Parameters. They shall be FM Approved, Canadian Certified or ATEX Certified, as applicable.
- The resistance between all safety ground connections and the system grounding electrode shall not exceed 1 ohm.
- Using the boxes provided on the nameplate, the user shall permanently mark the protection type chosen for the specific installation. Once the type of protection has been marked it shall not be changed.
- Warning:
 TO PREVENT IGNITION OF FLAMMABLE OR COMBUSTIBLE ATMOSPHERES, DISCONNECT POWER BEFORE SERVICING.
 Pour éviter l' inflammation de gaz inflammables ou inflammables, couper l' alimentation avant l' entretien.
 POTENTIAL ELECTROSTATIC CHARGING HAZARD-SEE INSTRUCTIONS.
 Risque potentiel de charge électrostatique - voir instructions.

| | | | | |
|----|--|----------------------|---------------------------|----------|
| 设计 | | INSTALLATION DRAWING | DRAWING NO 521302 | |
| 校对 | | | FM ENTITY | |
| 标检 | | | INTRINSICALLY SAFE WIRING | |
| 质量 | | MATERIAL | SIZE/图样标记 | WGT/重量 |
| 审定 | | | | SCALE/比例 |
| 批准 | | | SHEET/共2页 | OF/第1页 |
| | | | | REV/第1版 |

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DIVISION 2 OR ZONE 2 HAZARDOUS LOCATION

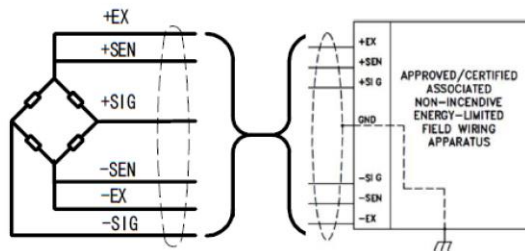
NO CHANGES ARE TO BE MADE TO THIS DRAWING WITHOUT WRITTEN APPROVAL OF FM APPROVALS.

Class I, Division 2, Group ABCD
 Class II, III, Division 2, Group FG
 Class I, Zone 2, Group IIC
 Zone 2, Group IIC,
 T4, Ta = 40°C

LOAD CELL NON-INCENDIVE AND ENERGY-LIMITED FIELD WIRING CONNECTIONS

Load Cell-When connected by a single associated apparatus
 Vmax, Ui=16V, Imax, Ii=420mA
 Pi=4.2W
 Ci=12 nF (at integral cable length of 200 Feet)
 Li=40 uH (at integral cable length of 200 Feet)

Load Cell-When connected by multiple paralleled associated apparatus
 Vmax, Ui=20V, Imax, Ii=309mA
 Pi=1.545W
 Ci=12 nF (at integral cable length of 200 Feet)
 Li=40 uH (at integral cable length of 200 Feet)



Notes for Division 2 and Zone 2 installations:

- The associated nonincendive/energy-limited field wiring apparatus shall be a single Approved/Certified device with outputs that are Approved/Certified for parallel connection of field wiring within the applicable hazardous location/explosive atmosphere. Within the United States, the voltage and current parameters of such associated apparatus are commonly identified using the parameters Vt (voltage, total) and It (current, total). The use of multiple associated non-incendive/energy-limited field wiring apparatus that are not Approved/Certified for use in combination with one another as a system is only permitted as specified in Note 2.
- The use of multiple associated apparatus which have not been Approved/Certified in combination with one another is restricted to the following conditions:
 - The associated apparatus shall all have DC outputs of the same polarity.
 - The associated apparatus shall have an open-circuit voltage (Voc, Vt or Uo) not exceeding 20V.
 - The sum of the output current (Isc, It or Io) of all of the associated apparatus shall not exceed 309 mA.
 - The sum of the available power (Po) of all of the associated apparatus shall not exceed 1.545W.
 - Ci + Ccable (total) shall not exceed the lowest Ca or Co for the associated apparatus.
 - Li + Lcable (total) shall not exceed the lowest La or Lo for the associated apparatus.
 - The outputs of all associated apparatus/barriers shall be linear. If necessary, contact the barrier manufacturer for confirmation of linearity.
- US installation shall be in accordance with the National Electrical Code, and applicable local codes.
 Canadian installations shall be in accordance with the Canadian Electrical Code and applicable local codes.
 European Union ATEX installations shall be in accordance with applicable national and local codes.
- Electrical equipment connected to associated apparatus / barrier(s) shall not use or generate more than 250V.
- Associated apparatus / barrier(s) shall be Approved/Certified with Entity / Energy Limitation Parameters. They shall be FM Approved, Canadian Certified or ATEX Certified, as applicable.
- The resistance between all safety ground connections and the system grounding electrode shall not exceed 1 ohm.

| | | | | | |
|----|--|----------------------|---------------------------|--------|----------|
| 设计 | | INSTALLATION DRAWING | DRAWING NO. 521302 | | |
| 校对 | | | FM ENTITY | | |
| 标检 | | | INTRINSICALLY SAFE WIRING | | |
| 质量 | | MATERIAL | SIZE/图样标记 | WGT/重量 | SCALE/比例 |
| 审定 | | | | | |
| 批准 | | | SHEET/共2页 | OF/第2页 | REV/第1版 |

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EC-Declaration of Conformity

EC-Declaration of conformity of a sub-assembly with ATEX-Directive 94/9/EC

We, the manufacturer,

Zhonghang Electronic Measuring Instruments Co., Ltd. Xibudadao road 166, 710000 Xi'an.

Hereby declare that the load cells described below:

2H3, B3G, H3G, BM3, H3, H3C, H3A, H3E, H3F, H3J, B8D, B8K, BM8D, BM8F, BM8H, H8, H8B, H8C, H8E, H8K, HM8, HM8C, B6E, B6F, B6G, B6N, B6Q, BM6A, BM6G, H6B, H6E, H6E3, H6F, H6G, H6G5, B9C, B9D, B9E, B9F, B9H, B9J, B9K, H9B, H9C, H9D, H9N, HM9B, HM9C, HM9E, BM11, HM11, BM14A, BM14C, BM14D, BM14G4, BM14K, HM14C.

Serial numbers can be found in calibration certificate added to the shipment.

With markings:



II 1G Ex ia IIC T4 Ga or

II 1D Ex ia IIIC T₂₀₀ 135°C Da or

II 3G Ex ic IIC T4 Gc or

II 3D Ex tc IIIC T73°C Dc.

And corresponds to the production model described in the EU type-approval certificate and to the requirements of the Council Directive 2014/34/EU:

EN60079-0:2018, EN60079-11:2007, EN60079-15:2005, EN60079-26:2007, EN61241-0:2006, EN61241-11:2006 and EN60529:1991 + A1:2000.

The loadcells mentioned, received a certificate after exam of conformity by notified body 2809 FM Approvals, Element 78, 1 Georges Quay Plaza, Dublin Ireland. The certificate number: FM07ATEX0017X – Issue 2.

This declaration is issued under the sole responsibility of the manufacturer.

| | |
|---|--|
| This document is signed for and on behalf of: | Zhonghang Electronic Measuring Instruments Co., Ltd. |
| Place and date of issue: | 07-06-2021, Etten-Leur |
| Name and Function: | Sander Fiere, Technical Manager |
| Signature: |  |

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Manufacturing Declaration *Herstellungserklärung*

no: 2014/34 rev.4

Manufacturer
Hersteller

Zemic Europe BV
Leerlooierstraat 8
4871 EN Etten-Leur
The Netherlands

Product description
Produktbezeichnung

2H3, B3G, H3G, BM3, H3, H3C, H3A, H3E, H3F, H3J, B8D, B8K, B8Q, BM8D, BM8G, BM8F, BM8H, H8, H8B, H8C, H8E, H8K, H8Q, HM8, HM8C, B6E, B6F, B6G, B6N, B6Q, BM6A, BM6G, H6B, H6E, H6E3, H6F, H6G, H6G5, B9C, B9D, B9E, B6F, B9H, B9J, B9K, H9B, H9C, H9D, HM9B, HM9C, HM9E, H9Z2, BM11, HM11, BM14A, BM14C, BM14D, BM14G, BM14K, H14W, HM14C and BM24R

We hereby declare that above mentioned products in the form as delivered is in conformity with the provisions of the following European Directive:


Wir erklären hiermit das oben bezeichnete Produkten stimmen in der von uns in Verkehr gebrachten Ausführung mit den Vorschriften folgender Europäischer Richtlinie überein:

ATEX Directive 2014/34/EC
EN 60079-0:2018
EN 60079-15:2010
EN 60079-31:2014

Conformity to the directives 2014/34/EC is assured through the application of the above standards.

Die Konformität zur 2014/34/EC wird nachgewiesen durch die Enthaltung oben angeführten Normen.

Atex Marking / Atex Zündschutzart

 II 3D Ex tc IIIC T73°C Dc

Permitted ambient temperature range / zulässiger Umgebungstemperaturbereich

-20°C ≤ Ta ≤ +40°C

Electrical Data / Elektrische Daten
Powersupply / Stromversorgung

Un = 20V

Special conditions for Safe Use in Zone 22
Besondere Bedingungen zum Einsatz und Zone 22

1. Steps must be taken to ensure that the rated voltage through transients cannot be exceeded by more than 40%. This criterion is fulfilled, if supplies are derived from SELV (safety Extra Low Voltage) only in accordance with IEC 950/EN 60950 /VDE 0805. *Es müssen Maßnahmen getroffen werden, dass die Nennspannung durch Transienten um nicht mehr als 40% überschritten werden kann. Dies ist der Fall, wenn die Geräte ausschließlich mit SELV (Safety Extra Low Voltage) betrieben werden. (gemäß IEC 950/EN 60950 /VDE 0805).*
2. Do not disconnect equipment when a flammable combustible atmosphere is present. *Die elektrischen Verbindungen dürfen unter Spannung nicht aufgetrennt werden solange nicht sicher ist, dass der Bereich nicht explosiv ist.*

Etten-Leur, 17.06.2021

Zemic Europe BV



Erik van Wijk
Managing Director

zemic
EUROPE 

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