



EU Type Examination Certificate CML 16ATEX1342X Issue 4

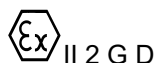
- 1 Equipment intended for use in Potentially Explosive Atmospheres Directive 2014/34/EU
- 2 Equipment **CZ086, CZ136, CZ0264 and CZ186 Series Explosion-Proof (Emergency) LED Linear Light Fittings**
- 3 Manufacturer **CZ Electric Co., Ltd.**
- 4 Address **No. 1 Qixing Rd, Qixing Town,
Nanghu District, Jiaxing, Zhejiang,
P.R. China**
- 5 The equipment is specified in the description of this certificate and the documents to which it refers.
- 6 CML B.V., Chamber of Commerce No 6738671, Koopvaardijweg 32, 4906CV Oosterhout, The Netherlands, Notified Body Number 2776, in accordance with Article 17 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that this equipment has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in the confidential reports listed in Section 12.
- 7 If an 'X' suffix appears after the certificate number, it indicates that the equipment is subject to conditions of safe use (affecting correct installation or safe use). These are specified in Section 14.
- 8 This EU Type Examination certificate relates only to the design and construction of the specified equipment or component. Further requirements of Directive 2014/34/EU Article 13 apply to the manufacture of the equipment or component and are separately certified.
- 9 Compliance with the Essential Health and Safety Requirements, with the exception of those listed in the confidential report, has been demonstrated through compliance with the following documents:

EN IEC 60079-0:2018	EN 60079-1:2014	EN 60079-5:2015
EN IEC 60079-7:2015+A1:2018	EN IEC 60079-18:2015+A1:2017	
EN 60079-31:2014		

Refer to description for the protection concepts applicable to each model.

- 10 The equipment shall be marked with the following:



II 2 G D

Ex db eb mb q IIC T6/T5/T4 Gb

Ex tb IIIC T80°C Db

Ta = -25°C/-40°C to +40°C/+50°C/+55°C

Refer to description for complete marking and for the protection concept symbols applied to each model.



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11 Description

The CZ086 Series, CZ136 Series, CZ0264 Series, and CZ186 Series Explosion-proof (Emergency) LED Linear Light Fittings are designed for fixed location hazardous areas and rated at 100V to 250V AC/DC unless otherwise stated below. They are installed to run from cabled power supplies but also include the option for emergency batteries.

The enclosures are IP66 rated and incorporate the use of the Explosion-proof LED Light Modules CZ1618/11-LED__W_ and CZ1618/11B-LED__W_, the Explosion-proof LED Power Modules CZ1618/57-_x LED__W and CZ1618/57B-LED__W, the Explosion-proof LED Inverter Modules CZ1618/58-_x LED__W and CZ1618/58B-LED__W which are certified under CML 16 ATEX 3341U and IECEx CML 16.0115U, the MU025HyAQ_MB/z LED driver certified under IECEx TPS 21.0008U, and the MU060HyAQ_MB/z LED driver certified under IECEx TPS 21.0011U.

There are also options for the inclusion of CZ0819 Series Explosion-proof battery module, the CZ0207 series Explosion-proof isolation switch module which is certified under IECEx CQM 15.0034U, the CZ0804 series explosion-proof fuse module which is certified under IECEx CQM 11.0009U, and the CZ0212 Signal lamp and button module certified under IECEx CML 19.0054U.

The models are marked and are rated as below:

CZ086 Series

Type	Gasket type	Gas Classification	Ambient temperature range	Dust Classification	Rating
CZ086x Standard without switch	Silicone rubber	Ex eb mb q IIC T5/T4 Gb	-25°C≤Ta≤+40°C/+55°C	Ex tb IIIC T80°C Db	AC100-250V 50/60Hz
	Polyurethane	Ex eb mb q IIC T5 Gb	-25°C≤Ta≤+40°C		
CZ086x Standard with switch	Silicone rubber	Ex db eb mb q IIC T5/T4 Gb	-25°C≤Ta≤+40°C/+55°C		
	Polyurethane	Ex db eb mb q IIC T5 Gb	-25°C≤Ta≤+40°C		
CZ0865 Emergency	Silicone rubber	Ex db eb mb q IIC T4 Gb	-25°C≤Ta≤+50°C		
	Polyurethane		-25°C≤Ta≤+40°C		
CZ0866 Emergency	Silicone rubber	Ex db eb mb q IIC T4 Gb	-25°C≤Ta≤+55°C		
	Polyurethane		-25°C≤Ta≤+40°C		

CZ136x Series

Type	Gas Classification	Ambient temperature range	Dust Classification	Rating
All models	Ex db eb mb q IIC T6 Gb	-25°C≤Ta≤+40°C	Ex tb IIIC T80°C Db	AC/DC100-250V 50/60Hz
	Ex db eb mb q IIC T5 Gb	-25°C≤Ta≤+55°C		



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CZ0264 Series

Type	Gasket type	Gas Classification	Ambient temperature range	Dust Classification	Rating
All models	Silicone rubber	Ex db eb mb q IIC T5 Gb	-40°C≤Ta≤+55°C	Ex tb IIIC T80°C Db	AC/DC100-250V 50/60Hz
		Ex db eb mb q IIC T6 Gb	-40°C≤Ta≤+40°C		
	Polyurethane	Ex db eb mb q IIC T6 Gb	-40°C≤Ta≤+40°C		

CZ186 Series

Type	Gasket type	Gas Classification	Ambient temperature range	Rating	Dust Classification
CZ1865 Standard with CZ1618/57B driver	Silicone rubber	Ex db eb mb q IIC T5 Gb	-40°C≤Ta≤+55°C	AC/DC100-250V 50/60Hz	Ex tb IIIC T80°C Db
		Ex db eb mb q IIC T6 Gb	-40°C≤Ta≤+40°C		
	Polyurethane	Ex db eb mb q IIC T6 Gb	-40°C≤Ta≤+40°C		
CZ1865 Emergency	Silicone rubber	Ex db eb mb q IIC T4 Gb	-40°C≤Ta≤+55°C		
		Ex db eb mb q IIC T5 Gb	-40°C≤Ta≤+40°C		
	Polyurethane	Ex db eb mb q IIC T5 Gb	-40°C≤Ta≤+40°C		
CZ1866 Standard with CZ1618/57B driver and Emergency	Silicone rubber	Ex db eb mb q IIC T4 Gb	-40°C≤Ta≤+55°C		
		Ex db eb mb q IIC T5 Gb	-40°C≤Ta≤+40°C		
	Polyurethane	Ex db eb mb q IIC T5 Gb	-40°C≤Ta≤+40°C		
CZ1866 Emergency	Silicone rubber	Ex db eb mb q IIC T4 Gb	-40°C≤Ta≤+55°C		
		Ex db eb mb q IIC T5 Gb	-40°C≤Ta≤+40°C		
	Polyurethane	Ex db eb mb q IIC T5 Gb	-40°C≤Ta≤+40°C		
CZ1865 Standard with MU025xx driver	Silicone rubber	Ex db eb mb IIC T5 Gb	-40°C≤Ta≤+55°C	AC100-250V 50/60Hz DC 125-250V	
		Ex db eb mb IIC T6 Gb	-40°C≤Ta≤+40°C		
	Polyurethane	Ex db eb mb IIC T6 Gb	-40°C≤Ta≤+40°C		
CZ1866 Standard with MU060xx driver	Silicone rubber	Ex db eb mb IIC T5 Gb	-40°C≤Ta≤+55°C		
		Ex db eb mb IIC T6 Gb	-40°C≤Ta≤+40°C		
	Polyurethane	Ex db eb mb IIC T6 Gb	-40°C≤Ta≤+40°C		

Variation 1

This issue introduced the following modifications:

- The introduction of two additional models to the CZ136 range.
- The introduction of the CZ0264 range.
- Clarification of the marking options available to the ranges covered.



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Variation 2

This issue introduced the following modifications:

- i. Change of manufacturer's company name from CZ Explosion-proof Electric Appliances Co., Ltd. to CZ Electric Co., Ltd.
- ii. Correction of typographical errors.
- iii. Transfer of certificate from CML UK to CML BV

Variation 3

This issue introduced the following modifications:

- i. Correction of typographical errors on the marking drawings.
- ii. Superseding of the list of drawings which was approved at issue 2 of this certificate.

Variation 4

This issue introduced the following modifications:

- i. The introduction of an alternative power module and LED light source in the CZ136 model.
- ii. Changes to the operating temperature range of the CZ0264 model.
- iii. The introduction of an alternative power module and LED light source in the CZ0264 model.
- iv. The use of alternative enclosure materials in the CZ0264 model.
- v. The introduction of new LED luminaire type CZ186.
- vi. The removal of "op is" marking from all models, and removal of EN 60079-28 from the certificate.
- vii. Update of standards EN IEC 60079-0, EN IEC 60079-7 & EN IEC 60079-18.

12 Certificate history and evaluation reports

Issue	Date	Associated report	Notes
0	06 Mar 2017	R1554A/00	Issue of Prime Certificate
1	27 Feb 2018	R2081A/00	Introduction of Variation 1
2	04 Dec 2019	R12865A/00	Introduction of Variation 2
3	08 Apr 2021	R12865B/00	Introduction of Variation 3
4	08 Aug 2022	R14258A/00	Introduction of Variation 4

Note: Drawings that describe the equipment or component are listed in the Annex.



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13 Conditions of Manufacture

The following conditions are required of the manufacturing process for compliance with the certification.

- i. Where the equipment incorporates certified parts or safety critical components, the manufacturer shall ensure that any changes to those parts or components do not affect the compliance of the certified product that is the subject of this certificate. A copy of the certification and/or instructions for the parts shall be provided as part of the luminaire document pack.
- ii. Each unit manufactured shall be subjected to an electric strength test in accordance with EN 60079-7:2015 clause 7.1. It shall be carried out at 1000 V + 2U for 60 seconds or at 1.2 times this test voltage for at least 100 ms.

14 Specific Conditions of Use (Special Conditions)

The following conditions relate to safe installation and/or use of the equipment.

- i. Due to the risk of static hazards of the CZ086 Series, CZ0264, and CZ186 Series Luminaire Ranges, the equipment in these ranges shall only be cleaned with a damp cloth.
- ii. CZ186 models incorporating MU025xx or MU060xx drivers shall only be connected to an electrical power supply which is fitted with a protective device which limits the current to a maximum of 10A.
- iii. The cable entries shall be made via suitably certified cable glands providing an ingress protection of IP66. Any unused entries shall be closed with suitably certified blanking plugs providing a degree of protection of IP66.
- iv. CZ186 models contain a flameproof switch. The dimensions of the flameproof joints differ from those of EN/IEC 60079-1 Table 2 and therefore shall not be repaired.
- v. The power and inverter modules fitted inside the luminaire enclosure are supplied permanently sealed and therefore no attempt must be made to open or repair them.

Certificate Annex

Certificate Number CML 16ATEX1342X

Equipment CZ086, CZ136, CZ0264 and CZ186 Series Explosion-Proof (Emergency) LED Linear Light Fittings

Manufacturer CZ Electric Co., Ltd.



The following documents describe the equipment or component defined in this certificate:

Issue 0

Drawing No	Sheets	Rev	Approved date	Title
2CZ0865LED.001.000	1 of 1	AA	06 Mar 2017	CZ0865/1 x LED 30W Structure Diagram
2CZ0865LED.002.000	1 of 1	AA	06 Mar 2017	CZ0865/1 x LED 30W-YJ Structure Diagram
2CZ0866LED.001.000	1 of 1	AA	06 Mar 2017	CZ0866/2 x LED 30W Structure Diagram
2CZ0866LED.002.000	1 of 1	AA	06 Mar 2017	CZ0866/2 x LED 30W-YJ Structure Diagram
2CZ1361LED.001.000	1 of 1	AA	06 Mar 2017	CZ1361/-1 x LED 30W Structure Diagram
2CZ1361LED.002.000	1 of 1	AA	06 Mar 2017	CZ1361/-1 x LED 30W-YJ Structure Diagram
2CZ1362LED.001.000	1 of 1	AA	06 Mar 2017	CZ1361/-2 x LED 30W Structure Diagram
2CZ1362LED.002.000	1 of 1	AA	06 Mar 2017	CZ1361/-2 x LED 30W-YJ Structure Diagram
8CZ0865LED.000.001	1 of 1	AA	06 Mar 2017	CZ0865/LED Nameplate 3M-7875
8CZ0866LED.000.001	1 of 1	AA	06 Mar 2017	CZ0866/LED Nameplate 3M-7875
8CZ1361LED.000.001	1 of 1	AA	06 Mar 2017	CZ1361/LED Nameplate 3M-7875
8CZ1362LED.000.001	1 of 1	AA	06 Mar 2017	CZ1362/LED Nameplate 3M-7875

Issue 1

Drawing No	Sheets	Rev	Approved date	Title
2CZ0264LED.000.026~027	1 to 2	AA	27 Feb 2018	CZ0264/31-LED16W Structure Diagram
2CZ0865LED.001.000	1 of 1	AB	27 Feb 2018	CZ0865/1 x LED 30W Structure Diagram
2CZ0865LED.002.000	1 of 1	AB	27 Feb 2018	CZ0865/1 x LED 30W-YJ Structure Diagram
2CZ0866LED.001.000	1 of 1	AB	27 Feb 2018	CZ0866/2 x LED 30W Structure Diagram
2CZ0866LED.002.000	1 of 1	AB	27 Feb 2018	CZ0866/2 x LED 30W-YJ Structure Diagram
2CZ1361LED.001.000	1 of 1	AB	27 Feb 2018	CZ1361/1 x LED 30W Structure Diagram
2CZ1361LED.002.000	1 of 1	AB	27 Feb 2018	CZ1361/1 x LED 30W-YJ Structure Diagram

Certificate Annex

Certificate Number CML 16ATEX1342X

Equipment CZ086, CZ136, CZ0264 and CZ186 Series Explosion-Proof (Emergency) LED Linear Light Fittings

Manufacturer CZ Electric Co., Ltd.



Drawing No	Sheets	Rev	Approved date	Title
2CZ1362LED.001.000	1 of 1	AB	27 Feb 2018	CZ1361/2 x LED 30W Structure Diagram
2CZ1362LED.002.000	1 of 1	AB	27 Feb 2018	CZ1361/2 x LED 30W-YJ Structure Diagram
2CZ1363LED.000.001~006	1 to 2	AA	27 Feb 2018	CZ1363/2 x LED 30W Structure Diagram
2CZ1363LED.000.007~012	1 to 2	AA	27 Feb 2018	CZ1363/2 x LED 30W Structure Diagram
2CZ0819.011.000	1 of 1	AA	27 Feb 2018	CZ0819/1.0Ah 7.2 V Structure Diagram
5CZ0264LED.000.015	1 of 1	AA	27 Feb 2018	CZ0264/31 Structure Diagram
5CZ0865LED.001.000	1 of 1	AB	27 Feb 2018	CZ0865 Structure Diagram
5CZ0866LED.001.000	1 of 1	AB	27 Feb 2018	CZ0866 Structure Diagram
5CZ1363LED.000.011~013	1 of 1	AA	27 Feb 2018	CZ1363/3 Structure Diagram
5CZ1363LED.000.014~016	1 of 1	AA	27 Feb 2018	CZ1363/4 Structure Diagram
8CZ0264LED.043.000	1 of 1	AA	27 Feb 2018	Nameplate
8CZ0865LED.000.001	1 of 1	AB	27 Feb 2018	CZ0865/LED Nameplate
8CZ0866LED.000.001	1 of 1	AB	27 Feb 2018	CZ0866/LED Nameplate
8CZ1361LED.000.001	1 of 1	AB	27 Feb 2018	CZ1361/LED Nameplate
8CZ1362LED.000.001	1 of 1	AB	27 Feb 2018	CZ1362/LED Nameplate
8CZ1363LED.000.033	1 of 1	AA	27 Feb 2018	CZ1363/3LED Nameplate
8CZ1363LED.000.034	1 of 1	AA	27 Feb 2018	CZ1363/4LED Nameplate

Issue 2

Drawing No.	Sheets	Rev	Approved date	Title
8CZ0264LED.043.00	1 of 1	AB	04 Dec 2019	Nameplate
8CZ0865LED.000.001	1 to 2	AC	04 Dec 2019	Cz0865/LED Nameplate
8CZ1361LED.000.001	1 to 2	AC	04 Dec 2019	CZ1361/LED Nameplate
8CZ1363LED.000.001	1 of 1	AC	04 Dec 2019	CZ1363/LED Nameplate

Certificate Annex

Certificate Number CML 16ATEX1342X

Equipment CZ086, CZ136, CZ0264 and CZ186 Series Explosion-Proof (Emergency) LED Linear Light Fittings

Manufacturer CZ Electric Co., Ltd.



Issue 3

Drawing No.	Sheets	Rev	Approved /issued date	Title
8CZ0264LED.043.000	1 of 1	AB	01 Apr 2021	Nameplate
8CZ0865LED.000.001	1 of 1	AD	01 Apr 2021	CZ0865/LED Nameplate
8CZ0866LED.000.001	1 of 1	AD	01 Apr 2021	CZ0866/LED Nameplate
8CZ1361LED.000.001	1 of 1	AD	01 Apr 2021	CZ1361/LED Nameplate
8CZ1362LED.000.001	1 of 1	AD	01 Apr 2021	CZ1362/LED Nameplate
8CZ1363LED.000.001	1 of 1	AC	01 Apr 2021	CZ1363/LED Nameplate

Note: the above drawing list supersedes that which was approved for Issue 2 of this certificate.

Issue 4

Drawing No.	Sheets	Rev	Approved date	Title
2CZ0865LED.001.000	1 of 1	AC	27 Jul 2022	CZ0865/1 x LED 30W Structure Diagram
2CZ0865LED.002.000	1 of 1	AC	27 Jul 2022	CZ0865/1 x LED 30W-YJ Structure Diagram
2CZ0866LED.001.000	1 of 1	AC	27 Jul 2022	CZ0866/2 x LED 30W Structure Diagram
2CZ0866LED.002.000	1 of 1	AC	27 Jul 2022	CZ0866/2 x LED 30W-YJ Structure Diagram
8CZ0865LED.000.001 8CZ0866LED.000.001	1 of 1	AE	27 Jul 2022	CZ0865/LED Nameplate
2CZ1361LED.001.000	1 of 1	AC	27 Jul 2022	CZ1361/-1 x LED 30W Structure Diagram
2CZ1361LED.002.000	1 of 1	AC	27 Jul 2022	CZ1361/-1 x 30W-YJ Structure Diagram
2CZ1362LED.001.000	1 of 1	AC	27 Jul 2022	CZ1361/-2 x 30W Structure Diagram
2CZ1362LED.002.000	1 of 1	AC	27 Jul 2022	CZ1361/-2 x 30W-YJ Structure Diagram
2CZ1363LED.000.001~006	1 to 2	AB	27 Jul 2022	CZ1363/3 2 x LED 30W Structure Diagram
2CZ1363LED.000.007~012	1 to 2	AB	27 Jul 2022	CZ1363/4 4 x LED 30W Structure Diagram
8CZ1361LED.000.001	1 of 1	AE	27 Jul 2022	CZ1361/LED Nameplate

Certificate Annex

Certificate Number CML 16ATEX1342X

Equipment CZ086, CZ136, CZ0264 and CZ186 Series Explosion-Proof (Emergency) LED Linear Light Fittings

Manufacturer CZ Electric Co., Ltd.



Drawing No.	Sheets	Rev	Approved date	Title
8CZ1362LED.000.001				
8CZ1363LED.000.001	1 of 1	AD	27 Jul 2022	CZ1363/LED Nameplate
2CZ0264LED.000.026~027	1 of 1	AB	27 Jul 2022	CZ0264/31-LED16W Structure Diagram
5CZ0264LED.000.015	1 of 1	AC	27 Jul 2022	CZ0264/31 Structure Diagram
8CZ0264LED.065.000	1 of 1	AC	27 Jul 2022	CZ0264 Sealing ring
8CZ0264LED.041.000	1 of 1	AC	27 Jul 2022	CZ0264 Lamp cover
8CZ0261.013.000	1 of 1	AC	27 Jul 2022	8W base
8CZ0264LED.043.000	1 of 1	AC	27 Jul 2022	Nameplate
2CZ0819.013~015.000	1 of 1	AA	27 Jul 2022	CZ0819 C-□Ah □V EXPLOSION-PROOF BATTERY MODULE
2CZ1865.001.001	1 of 1	AA	27 Jul 2022	CZ1865 EXPLOSION-PROOF LED LINEAR LIGHT FITTINGS
2CZ1865.001.002	1 of 1	AA	27 Jul 2022	CZ1865 EXPLOSION-PROOF EMERGENCY LED LINEAR LIGHT FITTINGS
2CZ1865.001.003	1 of 1	AA	27 Jul 2022	CZ1865-PM EXPLOSION-PROOF LED LINEAR LIGHT FITTINGS
2CZ1865.001.004	1 of 1	AA	27 Jul 2022	CZ1865-PM EXPLOSION-PROOF EMERGENCY LED LINEAR LIGHT FITTINGS
2CZ1866.001.001	1 of 1	AA	27 Jul 2022	CZ1866 EXPLOSION-PROOF LED LINEAR LIGHT FITTINGS
2CZ1866.001.002	1 of 1	AA	27 Jul 2022	CZ1866 EXPLOSION-PROOF EMERGENCY LED LINEAR LIGHT FITTINGS
2CZ1866.001.003	1 of 1	AA	27 Jul 2022	CZ1866-PM EXPLOSION-PROOF LED LINEAR LIGHT FITTINGS
2CZ1866.001.004	1 of 1	AA	27 Jul 2022	CZ1866-PM EXPLOSION-PROOF EMERGENCY LED LINEAR LIGHT FITTINGS
5CZ1865.000.001	1 of 1	AA	27 Jul 2022	CZ1865LED ENCLOSURE ASSEMBLY
5CZ1865.000.002	1 of 1	AA	27 Jul 2022	CZ1865 PM ENCLOSURE ASSEMBLY

Certificate Annex

Certificate Number CML 16ATEX1342X

Equipment CZ086, CZ136, CZ0264 and CZ186 Series Explosion-Proof (Emergency) LED Linear Light Fittings

Manufacturer CZ Electric Co., Ltd.



Drawing No.	Sheets	Rev	Approved date	Title
5CZ1866.000.001	1 of 1	AA	27 Jul 2022	CZ1866LED ENCLOSURE ASSEMBLY
5CZ1866.000.002	1 of 1	AA	27 Jul 2022	CZ1866 PM ENCLOSURE ASSEMBLY
5CZ1866.000.002~004	1 of 1	AA	27 Jul 2022	CZ1866/□ EMERGENCY POWER BOX
5CZ1866.000.005	1 of 1	AA	27 Jul 2022	CZ1866 EMERGENCY POWER BOX COVER ASSEMBLY
8CZ1865.000.001.1~2	1 of 1	AA	27 Jul 2022	CZ1865-□ LAMP BODY
8CZ1865.000.001.3~4	1 of 1	AA	27 Jul 2022	CZ1865-PM□ LAMP BODY
8CZ1865.000.002	1 of 1	AA	27 Jul 2022	CZ1865 LAMP COVER
8CZ1866.000.001.1~2	1 of 1	AA	27 Jul 2022	CZ1866-□ LAMP BODY
8CZ1866.000.001.3~4	1 of 1	AA	27 Jul 2022	CZ1866-PM□ LAMP BODY
8CZ1866.000.002	1 of 1	AA	27 Jul 2022	CZ1866 LAMP COVER
8CZ1866.000.011	1 of 1	AA	27 Jul 2022	CZ1866 EMERGENCY POWER BODY
8CZ1866.000.012	1 of 1	AA	27 Jul 2022	CZ1866 EMERGENCY POWER COVER
8CZ1866.000.020	1 of 1	AA	27 Jul 2022	CZ1866 SEALING RING OF EMERGENCY POWER BOX
8CZ1725.001.098~124	1 of 1	AA	27 Jul 2022	Sealing ring
8PL.001.001~005	1 of 1	AC	27 Jul 2022	PL00.001 UPPER COVER
8CZ1865LED.000.001	1 to 2	AA	27 Jul 2022	CZ1865/LED NAMEPLATE
8CZ1866LED.000.001	1 to 2	AA	27 Jul 2022	CZ1866/LED NAMEPLATE
8CZ1866.000.030	1 of 1	-	27 Jul 2022	Wiring information