1) # EU-TYPE EXAMINATION CERTIFICATE

2) Equipment or protective system intended for use in potentially explosive atmospheres — Directive 2014/34/EU

3) EU-Type Examination Certificate Number : **SCA20ATEX068X/Rev.01** (for revision detail see cl.20)

4) Equipment or Protective System : **Terminal and Control Boxes**, TYPES: **ZNB-X series** (The type description is in the schedule)

5) Manufacturer : **ZONE Elektrik Mak. Müh. İmalat San. Tic. Ltd. Şti.**

6) Manufacturer Address : Şekerpınar Mahallesi, Anadolu Cad. NO:8/A Çayırova - Kocaeli/TURKEY

7) This equipment or protective system and/or any acceptable variation there to is specified in the schedule to this certificate and the documents therein referred to.

8) SCA Belgelendirme ve Ozel Egt. Hizm. Ltd. Sti. Notified Body number 2336 in accordance with the Council Directive 2014/34/EU, certifies that this equipment has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment or protective system intended for use in potentially explosive atmospheres given in 2014/34/EU.

* The examination and test results are recorded in the confidential report B/2022-04-101/Rp.02

9) Essential Health and Safety Requirements is made about reference standard.

EN IEC 60079-0:2018, EN 60079-1:2014, EN 60079-31:2014

10) If the sign "X" is placed after the certificate number, it indicates that the equipment or protective system is subject to special conditions of safe use specified in the schedule to this certificate.

11) This EU-Type examination certificate relates only to the design and construction of the specified equipment or protective equipment in the scope of 2014/34/EU. Future requirements of the Directive applies to the production process and the provision of equipment or protective system. These are not discussed in this certificate.

12) Marking of the equipment or protective system must include the following :

II 2G Ex db IIB+H_2 T6 Gb

II 2D Ex tb IIIC T85°C Db

Digitally Signed

The competent person
SCA Technical Manager
İsmail OĞLAKCIOĞLU

Date of Approval : 28.12.2022

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13) # SCHEDULE

14) **EU-Type Examination Certificate** : **SCA20ATEX068X/Rev.01**

15) **Description of Equipment and/or Protective System:**

ZNB.X series terminal and control boxes enclosure and cover are made from an aluminium alloy.
These equipment have different sizes and variable components. The enclosures can be used empty or they maybe fitted with signal lamp, push button, emergency button and rotary mechanism switch which tested together with enclosure.
ZNB.X series enclosure has been tested and assessed together with SCA22ATEX167U certificate numbered ZNEQ series flameproof signal and control operators (Start Button, Stop Button, Emergency Button, Mushroom Push Button, Signal Lamp, Switch, Potentiometer)

Technical Parameters

Rated voltage : 220-380 VAC

Rated frequence : 50/60 Hz

Degree of protection : IP 65

Ambient temperature : -25°C to +55°C

Identification of Type Codes

ZNB - □□

Type

Empty for without equipment
E for with equipment

Box Size

No	Size (Width x Length x Height)
7	536mm x 786mm x 310mm
6	430mm x 660mm x 285mm
5	350mm x 520mm x 226 mm
4	315mm x 460mm x 202mm
3	230mm x 330mm x 166mm
2	200mm x 275mm x 143mm
1	145mm x 210mm x 121mm
CE3	110mm x 210mm x 85mm
CE2	110mm x 150mm x 85mm

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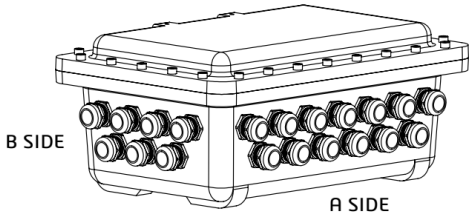
CONTINUATION OF SCHEDULE TO EU TYPE EXAMINATION CERTIFICATE SCA20ATEX068X/Rev.01

15.1) **Type Parameters**

Type	Component Type and Max. Quantity			Minimum Distance Between Components	
	Maximum number of holes	Signal lamp, push button, emergency button (1/2”)	Rotary mechanism switch (1/2”)	Signal lamp, push button, emergency button	Rotary mechanism switch
ZNB-7E	35	35	18	55 mm	80 mm
ZNB-6E	26	26	18		
ZNB-5E	18	18	12		
ZNB-4E	15	15	8		
ZNB-3E	6	6	3		
ZNB-2E	3	3	2		
ZNB-1E	3	3	2		
ZNB-CE3E	3	3	1		-
ZNB-CE2E	2	2	1		-

Type		MAX. Quantity of Enclosure Entries									
		A Side					B Side				
	Metric	M20	M25	M32	M40	M50	M20	M25	M32	M40	M50
	NPT	1/2”	3/4”	1”	1 1/4”	1 1/2”	1/2”	3/4”	1”	1 1/4”	1 1/2”
ZNB-7		32	32	23	14	14	23	23	14	8	8
ZNB-6		29	29	23	14	12	17	17	11	6	6
ZNB-5		15	15	13	9	5	9	9	7	5	3
ZNB-4		13	13	11	5	4	7	7	5	2	2
ZNB-3		9	9	5	2	2	5	5	2	1	1
ZNB-2		7	7	3	3	2	5	3	2	1	1
ZNB-1		3	3	2	-	-	2	2	1	-	-



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CONTINUATION OF SCHEDULE TO EU TYPE EXAMINATION CERTIFICATE SCA20ATEX068X/Rev.01

16) **Test and Assessment Report** *B/2022-04-101/Rp.02*

17) **Special Conditions for Safe Use (X):**

If end user/assembler will be use another control and signalling operators other than ZNEQ series flameproof signal and control operators and also the cable glands used for cable entries and plugs for unused holes on equipment must have to following parameters and certification:

-"Ex db+H_2 IIB Gb and Ex tb IIIC Db " protection according to EN IEC 60079-0, EN 60079-1, EN 60079-31
-Minimum degree of protection IP 65 according to EN 60529
-Threaded entry size shall be in accordance with technical file and technical drawings

Notes for manufacturing and operation

ZNB-CE2, ZNB-CE3, ZNB-1, ZNB-2, ZNB-3, ZNB-4 and ZNB-5 model enclosures not subject to routine overpressure testing. (According to EN 60079-1:2014 article 15.2.3.2 "4 times the reference pressure for enclosures not subject to routine overpressure testing".

For the ZNB-6 and ZNB-7 model enclosures the manufacturer shall carry out the routine overpressure test according to EN 60079-1:2014 Clause 16

18) **Essential Health and safety Requirements :**

Met by compliance with the standards listed in Section 9 of this certificate.

19) **Drawing and Documents :**

Technical file ZN-B-19/Rev.01 dated 01.05.2022 includes drawings, safety, maintenance and mounting instructions.

Drawing No:	Title	Pages	Rev.	Date
Z-01NB-0-000	General Assembly	1	00	14.01.2018
Z-03NB-2-1-001	ZNB Diameters	1	02	13.03.2020
Z-02NB-1-400	ZNB 1 Body	1	00	24.04.2018
Z-02NB-1-401	ZNB 1 Cover	1	00	24.04.2018
Z-02NB-1-402	ZNB 1 Assembly Plate	1	00	24.04.2018
Z-02NB-1-404	ZNB 2 Body	1	00	24.04.2018
Z-02NB-1-405	ZNB 2 Cover	1	00	24.04.2018
Z-02NB-1-406	ZNB 2 Assembly Plate	1	00	24.04.2018

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Drawing No:	Title	Pages	Rev.	Date
Z-02NB-1-407	ZNB 3 Body	1	00	24.04.2018
Z-02NB-1-408	ZNB 3 Cover	1	00	24.04.2018
Z-02NB-1-409	ZNB 3 Assembly Plate	1	00	24.04.2018
Z-02NB-1-410	ZNB 4 Body	1	00	24.04.2018
Z-02NB-1-411	ZNB 4 Cover	1	00	24.04.2018
Z-02NB-1-412	ZNB 4 Assembly Plate	1	00	24.04.2018
Z-02NB-1-413	ZNB 5 Body	1	00	24.04.2018
Z-02NB-1-414	ZNB 5 Cover	1	00	24.04.2018
Z-02NB-1-415	ZNB 5 Assembly Plate	1	00	24.04.2018
Z-02NB-1-416	ZNB 6 Body	1	00	24.04.2018
Z-02NB-1-417	ZNB 6 Cover	1	00	24.04.2018
Z-02NB-1-418	ZNB 6 Assembly Plate	1	00	24.04.2018
Z-02NB-1-419	ZNB 7 Body	1	00	24.04.2018
Z-02NB-1-420	ZNB 7 Cover	1	01	10.12.2019
Z-02NB-1-421	ZNB 7 Assembly Plate	1	00	24.04.2018
Z-02NB-1-422	ZNB CE2 Body	1	00	10.12.2019
Z-02NB-1-423	ZNB CE2/A, ZNB CE2/B Cover	1	00	10.12.2019
Z-02NB-1-424	ZNB CE3 Body	1	00	10.12.2019
Z-02NB-1-425	ZNB CE3 Cover	1	00	10.12.2019

20) **Certificate History :**

Revision Number	Publication Date	Explanation
Rev.00	07.05.2021	First Publication
Rev.01	28.12.2022	Published for the; -Add signal and control operators which tested together with enclosure. -Add the "H_2" gas group.

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The competent person
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