



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 ULD 19.0007X	Page 1 of 4	<u>Certificate history:</u>
Status:	Current	Issue No: 3	Issue 2 (2023-05-12)
Date of Issue:	2023-12-19		Issue 1 (2021-10-22)
Applicant:	European Safety Systems Limited Impress House Mansell Rd. Acton, London W3 7QH GB United Kingdom		Issue 0 (2019-04-30)
Equipment:	Call Point Switch, Models GNE_xCP7-PT-S / PM-S / PB-S / PT-D / PM-D / PB-D / BG-S / BG-D / PT-I / PM-I / PB-I / BG-I / PT-IR / PM-IR / PB-IR / BG-IR.		
Optional accessory:			
Type of Protection:	Flameproof "db", Intrinsic Safety "ia", Dust Ignition Protection by Enclosure "tb"		
Marking:	Ex db IIC T6...T4 Gb Ex tb IIIC T80°C...T100°C Db Ex ia IIC T6 Ga (models GNE _x CP7-**-I) Ex ia IIC T4 Ga (models GNE _x CP7-**-IR) -55°C to +70°C (See Annex for additional information)		

Approved for issue on behalf of the IECEx
Certification Body:

Andrew Moffat

Position:

Senior Project Engineer

Signature:
(for printed version)

Date:
(for printed version)

2023-12-19

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2. This certificate is not transferable and remains the property of the issuing body.
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Certificate issued by:

UL Solutions (Demko)
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Ballerup DK-2750
Denmark





IECEX Certificate of Conformity

Certificate No.: **IECEX ULD 19.0007X**

Page 2 of 4

Date of issue: 2023-12-19

Issue No: 3

Manufacturer: **European Safety Systems Limited**
Impress House
Mansell Rd.
Acton, London W3 7QH GB
United Kingdom

Manufacturing locations: **European Safety Systems Limited**
Impress House
Mansell Rd.
Acton, London W3 7QH GB
United Kingdom

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 60079-1:2014](#) Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
Edition:7.0

[IEC 60079-11:2011](#) Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
Edition:6.0

[IEC 60079-31:2022](#) Explosive atmospheres – Part 31: Equipment dust ignition protection by enclosure "t"
Edition:3.0

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:

[DK/ULD/ExTR19.0007/00](#)
[DK/ULD/ExTR19.0007/03](#)

[DK/ULD/ExTR19.0007/01](#)

[DK/ULD/ExTR19.0007/02](#)

Quality Assessment Report:

[GB/SIR/QAR06.0020/12](#)



IECEx Certificate of Conformity

Certificate No.: **IECEx ULD 19.0007X**

Page 3 of 4

Date of issue: 2023-12-19

Issue No: 3

EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

The GNE_xCP7 series Call Points are made from GRP material and provide Ex db and Ex tb types of protection. There are four variants, Break Glass, Push Button, Momentary Push Button and Push Button & Tool Reset. All models have a flanged flamepath for the cover and a cylindrical flamepath for the operating rods. All variants have three M20 x 1.5p threaded entries, two are located at the top of the base and one is located on the side of the base. The permitted orientations for the equipment are vertical only with the double cable entry uppermost or lowermost only. An indicator LED may be fitted in one of the M20 threaded entries.

Each variant may incorporate single or dual microswitch configurations, DIN rail mounted terminal blocks and PCB terminal. End of line and series monitoring resistors or diodes may be fitted when supplied at 24 or 48 Vdc.

The GNE_xCP7-xx-I and GNE_xCP7-xx-IR series Call Points are as described above and provide Ex ia type of protection when used with suitable Zener Barrier or Galvanic Isolators. Terminal blocks are either DIN rail mounted or PCB mounted. End of line and series monitoring resistors or diodes may be fitted in the factory or by the installer/end-user. There is also an option for an LED module to be fitted. All components are considered as a single intrinsically safe circuit.

Please see Annex for additional information.

SPECIFIC CONDITIONS OF USE: YES as shown below:

For Ex db & Ex tb models:

- No repair to the flameproof joints is permitted.
- The equipment has a maximum capacitance of 6.33pF.
- Equipment is permitted to be wall mounted only in the vertical position. The enclosure base is permitted in two mounting positions, with the double cable entry lowermost or uppermost.

For Ex ia Intrinsically Safe models:

- The equipment does not provide 500V isolation between the intrinsically safe circuit and parts which may be earthed. This shall be considered in the end-use application to ensure the possibility of an earth connection will not compromise intrinsic safety. Refer to IEC 60079-14.
- The equipment has a maximum capacitance of 6.33pF.
- Equipment is permitted to be wall mounted only in the vertical position. The enclosure base is permitted in two mounting positions, with the double cable entry lowermost or uppermost.



IECEX Certificate of Conformity

Certificate No.: **IECEX ULD 19.0007X**

Page 4 of 4

Date of issue: 2023-12-19

Issue No: 3

DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

Issue 1: Addition of the Break Glass Version.

Issue 2: Addition of models "-L" and "-C" fitted with LED module. Revise some existing model temperature ratings.

Issue 3: Addition of new Intrinsically Safe models GNExCP7-**-I and GNExCP7-**-IR.

Annex:

[Annex to IECEx ULD 19.0007X Issue 3.pdf](#)



IECEX Certificate of Conformity

Annex to Certificate No.:

IECEX ULD 19.0007X

Issue No.: 3

Page 1 of 6

TYPE DESIGNATION

Ex db & Ex tb Product Nomenclature:

GNEEx	CP7-	PB-	S	-L
I	II	III	IV	V

I – Enclosure Series

GNEEx – Primary Enclosure Series

II – Certifications

CP7- - Call Point 7

III – Type of Enclosure

BG- - Break Glass

PB- - Push Button

PM- - Momentary Push Button

PT- - Push Button & Tool Reset

IV – Switch configuration Width of Enclosure

S - Single microswitch

D - Dual microswitch

V – LED option

Blank – No LED

-C – LED, without resistor

-L – LED, with resistor

Ex ia Product Nomenclature:

GNEEx	CP7-	PB-	I
I	II	III	IV

I – Enclosure Series

GNEEx – Primary Enclosure Series

II – Certifications

CP7- - Call Point 7

III – Type of Enclosure

BG- - Break Glass

PB- - Push Button

PM- - Momentary Push Button

PT- - Push Button & Tool Reset

IV – Product Version



IECEX Certificate of Conformity

Annex to Certificate No.:

IECEX ULD 19.0007X

Issue No.: 3

Page 2 of 6

I – Intrinsically Safe Version with Single or Double Switch with no EOL or Series Devices

IR - Intrinsically Safe Version with Single or Double Switch with optional EOL Series devices including optional LED module

PARAMETERS RELATING TO THE SAFETY

For Ex db & Ex tb models:

Maximum Voltage =

250Vac max / 5.0A max (for units without any series resistor or end of line devices only)

48Vdc max / 1.0A max

24Vdc max / 3.0A max

Maximum Power = 6.224W

Ambient Temperature

Ex db, Ex tb and Ex ia Models

Model	Maximum Ambient (-55°C to xx°C)				
	Gas				Dust
	50°C	+60°C	+65°C	+70°C	+70°C
GNEExCP7-PB-S	-	-	T6	T5	T85°C
GNEExCP7-PB-S-L GNEExCP7-PB-S-C	-	-	T6	T5	T85°C
GNEExCP7-PB-D	-	T6	-	T5	T90°C
GNEExCP7-PB-D-L GNEExCP7-PB-D-C	T6	-	T5	T4	T100°C
GNEExCP7-PB-I	-	-	-	T6	-
GNEExCP7-PB-IR	-	-	-	T4	-
GNEExCP7-PM-S	-	-	T6	T5	T85°C
GNEExCP7-PM-S-L GNEExCP7-PM-S-C	-	-	T6	T5	T85°C
GNEExCP7-PM-D	-	T6	-	T5	T90°C
GNEExCP7-PM-D-L GNEExCP7-PM-D-C	T6	-	T5	T4	T100°C
GNEExCP7-PM-I	-	-	-	T6	-
GNEExCP7-PM-IR	-	-	-	T4	-
GNEExCP7-PT-S	-	-	T6	T5	T85°C



IECEX Certificate of Conformity

Annex to Certificate No.:

IECEX ULD 19.0007X

Issue No.: 3

Page 3 of 6

GNEExCP7-PT-S-L	-	-	T6	T5	T85°C
GNEExCP7-PT-S-C	-	-	-	-	-
GNEExCP7-PT-D	-	T6	-	T5	T90°C
GNEExCP7-PT-D-L	T6	-	T5	T4	T100°C
GNEExCP7-PT-D-C	-	-	-	-	-
GNEExCP7-PT-I	-	-	-	T6	-
GNEExCP7-PT-IR	-	-	-	T4	-
GNEExCP7-BG-S	-	-	-	T6	T80°C
GNEExCP7-BG-S-L	-	-	T6	T5	T85°C
GNEExCP7-BG-S-C	-	-	-	-	-
GNEExCP7-BG-D	-	-	T6	T5	T85°C
GNEExCP7-BG-D-L	T6	-	T5	T4	T100°C
GNEExCP7-BG-D-L	-	-	-	-	-
GNEExCP7-BG-I	-	-	-	T6	-
GNEExCP7-BG-IR	-	-	-	T4	-

For Intrinsic Safety models GNEExCP7-**-I and GNEExCP7-**-IR

Ui=30V li=500mA Pi=1100mW Ci=0 Li=0

MARKING

Marking has to be readable and indelible; it has to include the following indications:

Example of GNEExCP7-PB-D, covers GNEExCP7-PT-*, GNEExCP7-PB-* and GNEExCP7-PM-*

GNEExCP7-PB-D	CALL POINT	
Maximum Power: 6.244W Input Voltage / Current: 48Vdc max 1A max / 24Vdc 3A max Input Voltage / Current: 250Vac 50/60Hz max 5.0A max		
Year / Serial No.	DEMKO 19 ATEX 2101X	IP66
20/1CP7PBDXXXXXX	IECEX ULD 19.0007X	
WARNINGS USE COVER BOLTS CLASS A4-70 ; DO NOT OPEN WHEN AN EXPLOSIVE ATMOSPHERE IS PRESENT POTENTIAL ELECTROSTATIC CHARGING HAZARD - SEE INSTRUCTIONS ; FOR INDOOR OR OUTDOOR USE TO REDUCE THE RISK OF IGNITION OF HAZARDOUS ATMOSPHERES, CONDUIT RUNS MUST HAVE A SEALING FITTING CONNECTED WITHIN 18 INCHES OF CONDUIT CAUTION - RISK OF ELECTRIC SHOCK - MORE THAN ONE DISCONNECT MAY BE REQUIRED TO DE-ENERGIZE THE EQUIPMENT BEFORE SERVICING AVERTISSEMENT: UTILISER COUVRIR BLOUSONS CLASSE A4-70 ; NE PAS OUVRIR UN PRESENCE D'ATMOSPHERE EXPLOSIVE DANGER POTENTIEL CHARGE ÉLECTROSTATIQUE - VOIR LES INSTRUCTIONS ; POUR USAGE INTÉRIEUR OU EXTERIEUR POUR RÉDUIRE LE RISQUE D'INFLAMMATION DES ATMOSPHERES DANGEREUSES, LES CONDUITES DE CONDUIT DOIVENT AVOIR UN RACCORD D'ÉTANCHÉITÉ RACCORDÉ À MOINS DE 18 POUCES DE L'ENFERMEMENT ATTENTION - RISQUE DE CHOC ELECTRIQUE - PLUSIEURS SECTIONNEURS PEUVENT ETRE NECESSAIRES POUR COUPER L'ALIMENTATION DE L'APPAREILLAGE AVANT D'ENTREPRENDRE L'ENTRETIEN		



IECEX Certificate of Conformity

Annex to Certificate No.:

IECEX ULD 19.0007X

Issue No.: 3

Page 4 of 6

	ATEX/IECEX:	
	Ex db IIC T5 Gb (Ta -55°C to +70°C)	
	Ex db IIC T6 Gb (Ta -55°C to +60°C)	
	Ex tb IIIC T90°C Db (Ta -55°C to +70°C)	

ALL ENTRIES M20x1.5 - IF TEMPERATURE EXCEEDS 70° C AT ENTRY OR 80° C AT BRANCHING POINT USE SUITABLY RATED CABLE AND CABLE GLANDS - SEE INSTRUCTIONS

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www.e2s.com

Temperature ratings may change depending upon marked model. Refer to D202-99-211-SC:

FIELD 1 MODEL	FIELD 2 SERIAL NO. FORMAT	FIELD 3 RATINGS
GNECP7-PT-S	YY/1CP7PTSXXXXXX	Ex db IIC T5 Gb (Ta -55°C to +70°C) Ex db IIC T6 Gb (Ta -55°C to +65°C) Ex tb IIIC T85°C Db (Ta -55°C to +70°C)
GNECP7-PM-S	YY/1CP7PMSXXXXXX	"
GNECP7-PB-S	YY/1CP7PBSXXXXXX	"
GNECP7-PT-S-L or -C	YY/1CP7PTSXXXXXX	"
GNECP7-PM-S-L or -C	YY/1CP7PMSXXXXXX	"
GNECP7-PB-S-L or -C	YY/1CP7PBSXXXXXX	"
GNECP7-PT-D	YY/1CP7PTDXXXXXX	Ex db IIC T5 Gb (Ta -55°C to +70°C) Ex db IIC T6 Gb (Ta -55°C to +60°C) Ex tb IIIC T90°C Db (Ta -55°C to +70°C)
GNECP7-PM-D	YY/1CP7PMDXXXXXX	"
GNECP7-PB-D	YY/1CP7PBDXXXXXX	"
GNECP7-PT-D-L or -C	YY/1CP7PTDXXXXXX	Ex db IIC T4 Gb (Ta -55°C to +70°C) Ex db IIC T5 Gb (Ta -55°C to +65°C) Ex db IIC T6 Gb (Ta -55°C to +50°C) Ex tb IIIC T100°C Db (Ta -55°C to +70°C)
GNECP7-PM-D-L or -C	YY/1CP7PMDXXXXXX	"
GNECP7-PB-D-L or -C	YY/1CP7PBDXXXXXX	"

Example of GNECP7-BG-D, covers GNECP7-BG-*

GNECP7-BG-D	CALL POINT
Maximum Power: 6,244W Input Voltage / Current: 48Vdc max 1A max / 24Vdc 3A max Input Voltage / Current: 250Vac 50/60Hz max 5.0A max	
Year / Serial No. 19/1CP7BGDXXXXXX	DEMKO 19 ATEX 2101X IP66 IECEX ULD 19.0007X
<p>WARNINGS USE COVER BOLTS CLASS A4-70 DO NOT OPEN WHEN AN EXPLOSIVE ATMOSPHERE IS PRESENT POTENTIAL ELECTROSTATIC CHARGING HAZARD - SEE INSTRUCTIONS FOR INDOOR OR OUTDOOR USE TO REDUCE THE RISK OF IGNITION OF HAZARDOUS ATMOSPHERES, CONDUIT RUNS MUST HAVE A SEALING FITTING CONNECTED WITHIN 2 INCHES OF ENCLOSURE</p> <p>AVERTISSEMENT: UTILISER COUVRIR BOULONS CLASSE A4-70 NE PAS OUVRIR UN PRESENCE D'ATMOSPHERE EXPLOSIVE DANGER POTENTIEL CHARGE ELECTROSTATIQUE - VOIR LES INSTRUCTIONS POUR USAGE INTERIEUR OU EXTERIEUR POUR REDUIRE LE RISQUE D'INFLAMMATION DES ATMOSPHERES DANGEREUSES, LES CONDUITES DE CONDUIT DOIVENT AVOIR UN RACCORD D'ETANCHEITE RACCORDE A MOINS DE 2 POUCES DE ENCLOS</p>	
ALL ENTRIES M20x1.5 - IF TEMPERATURE EXCEEDS 70° C AT ENTRY OR 80° C AT BRANCHING POINT USE SUITABLY RATED CABLE AND CABLE GLANDS - SEE INSTRUCTIONS	
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IECEX Certificate of Conformity

Annex to Certificate No.:

IECEX ULD 19.0007X

Issue No.: 3


Page 5 of 6

 II 2G II 2D	ATEX/IECEX:	 2813
	Ex db IIC T5 Gb (Ta -55°C to +70°C)	
	Ex db IIC T6 Gb (Ta -55°C to +65°C)	
	Ex tb IIIC T85°C Db (Ta -55°C to +70°C)	

Temperature ratings may change depending upon marked model. Refer to D202-99-001-SC:

FIELD 1 MODEL	FIELD 2 SERIAL NO. FORMAT	FIELD 3 RATINGS
GNECP7-BG-S	YY/1CP7BGSXXXXXX	Ex db IIC T6 Gb (Ta -55°C to +70°C) Ex tb IIIC T80°C Db (Ta -55°C to +70°C)
GNECP7-BG-S-L or -C	YY/1CP7BGSXXXXXX	Ex db IIC T5 Gb (Ta -55°C to +70°C) Ex db IIC T6 Gb (Ta -55°C to +65°C) Ex tb IIIC T85°C Db (Ta -55°C to +70°C)
GNECP7-BG-D	YY/1CP7BGDXXXXXX	Ex db IIC T5 Gb (Ta -55°C to +70°C) Ex db IIC T6 Gb (Ta -55°C to +65°C) Ex tb IIIC T85°C Db (Ta -55°C to +70°C)
GNECP7-BG-D-L or -C	YY/1CP7BGDXXXXXX	Ex db IIC T4 Gb (Ta -55°C to +70°C) Ex db IIC T5 Gb (Ta -55°C to +65°C) Ex db IIC T6 Gb (Ta -55°C to +50°C) Ex tb IIIC T100°C Db (Ta -55°C to +70°C)

Example of GNECP7-BG-IR, covers GNECP7-**-I and GNECP7-**-IR:

GNECP7-BG-IR	CALL POINT
Ui=30V Ii=500mA Pi=1100mW Ci=0 Li=0	
Year / Serial No. 23/1CP7BGIRXXXXXX	DEMKO 19 ATEX 2101X IECEX ULD 19.0007X IP68 UL21UKEX2134X
WARNINGS DO NOT OPEN WHEN AN EXPLOSIVE ATMOSPHERE IS PRESENT POTENTIAL ELECTROSTATIC CHARGING HAZARD - SEE INSTRUCTIONS DO NOT OPEN WHEN ENERGISED POTENTIAL ELECTROSTATIC CHARGING HAZARD - CLEAN ONLY WITH A DAMP CLOTH	
AVERTISSEMENT: NE PAS OUVRIR UN PRESENCE D'ATMOSPHERE EXPLOSIVE DANGER POTENTIEL CHARGE ELECTROSTATIQUE - VOIR LES INSTRUCTIONS NE PAS OUVRIR ENERGIE DANGER POTENTIEL CHARGE ELECTROSTATIQUE - NETTOYER UNIQUEMENT AVEC UN CHIFFON HUMIDE	
ALL ENTRIES M20x1.5 - IF TEMPERATURE EXCEEDS 70° C AT ENTRY OR 80° C AT BRANCHING POINT USE SUITABLY RATED CABLE AND CABLE GLANDS - SEE INSTRUCTIONS	
 European Safety Systems Ltd. www.e2s.com	Impress, House, Mansell Road, London W3 7QH UK



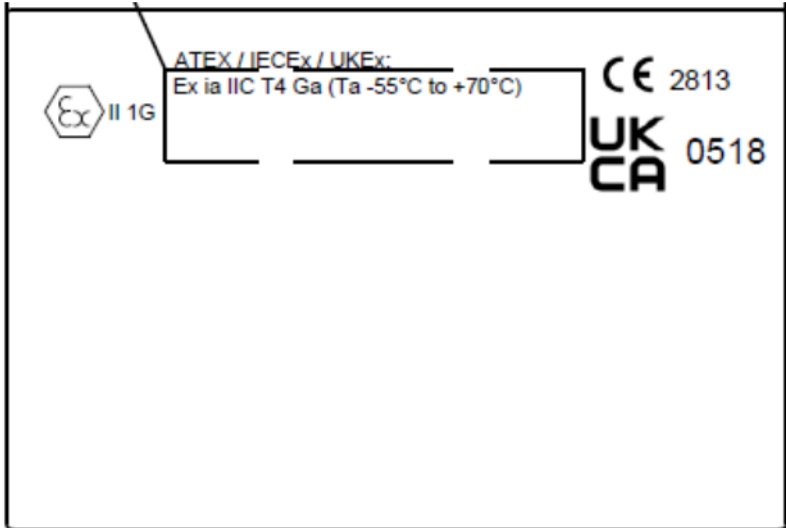
IECEX Certificate of Conformity

Annex to Certificate No.:

IECEX ULD 19.0007X

Issue No.: 3

Page 6 of 6



Temperature ratings may change depending upon marked model. Refer to D202-99-501-SC:

MODEL	SERIAL NO. FORMAT	RATINGS
GNECP7-BG-I	YY/1CP7BGIXXXXXX	Ex ia IIC T6 Ga (Ta -55°C to +70°C)
GNECP7-PB-I	YY/1CP7PBIXXXXXX	Ex ia IIC T6 Ga (Ta -55°C to +70°C)
GNECP7-PT-I	YY/1CP7PTIXXXXXX	"
GNECP7-PM-I	YY/1CP7PMIXXXXXX	"
GNECP7-BG-IR	YY/1CP7BGIRXXXXXX	Ex ia IIC T4 Ga (Ta -55°C to +70°C)
GNECP7-PB-IR	YY/1CP7PBIRXXXXXX	Ex ia IIC T4 Ga (Ta -55°C to +70°C)
GNECP7-PT-IR	YY/1CP7PTIRXXXXXX	"
GNECP7-PM-IR	YY/1CP7PMIRXXXXXX	"

ROUTINE EXAMINATIONS AND TESTS

Routine tests according to IEC 60079-1, cl. 16 are not required, as the enclosures have been successfully tested at four times the reference pressure.