INSTRUCTION MANUAL GNExCP7-BG-S. GNExCP7-BG-D Call Point Class I & II Div 2; UL38 NEC / CEC / ATEX / IECEx / UKEx Zone 1, 2, 21, 22





1) Product Table

Unit Tuna Cada	Input Valtage	Input Current		
Unit Type Code	input voitage			
	250Vac Max	5.0A Max		
GNExCP7-BG-S GNExCP7-BG-D	48Vdc Max	1.0A Max		
	24Vdc Max	3.33A Max Class Div/Zone 5.0 Max ATEX/IECEx/UKEx		
Table 1: Electrical Ratings				

2) Warnings

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

AVERTISSEMENT:

UTILISER COUVRIR BOULONS CLASSE A4-70 NE PAS OUVRIR UN PRESENCE D'ATMOSPHERE EXPLOSIVE DANGER POTENTIEL CHARGE ÉLECTROSTATIQUE - VOIR LES INSTRUCTIONS POUR USAGE INTÉRIEUR OU EXTÉRIEUR POUR RÉDUIRE LE RISQUE D'INFLAMMATION DES ATMOSPHÈRES DANGEREUSES, LES CONDUITES DE CONDUIT DOIVENT AVOIR UN RACCORD D'ÉTANCHÉITÉ RACCORDÉ À MOINS DE 2 POUCES DE ENCLOS

3) Marking & Rating Information

The GNExCP7-BG Call Points comply with the following standards for hazardous locations:

3.1 Class/Division Ratings for US & Canada



All models are approved for use as Fire Alarm System use:

UL 38 8th Edition 10/4/2013 Manual Signaling Boxes for Fire Alarm Systems

ULC-S528 3rd Edition 2014-10 Manual Stations For Fire Alarm Systems, Including Accessories

For Indoor and Outdoor Use Pour usage Interier INTÉRIEUR

Ambient Temperature Range: -55°C to +70°C

Standards						
UL 60079-0:2017 (Ed 6): Explosive Atmospheres - Part 0: Equipment - General requirements UL 60079-1:2015 (Ed7): Explosive Atmospheres - Part 1: Equipment protection by flameproof enclosures "d" UL 60079-31:2012 (Ed 2): Explosive Atmospheres - Part 31: Equipment dust ignition protection by enclosure "t" CSA C22.2 NO. 60079-0:2015 (Ed 3) Explosive Atmospheres - Part 0: Equipment - General requirements CSA C22.2 NO. 60079-1:2016 (Ed 3): Explosive Atmospheres - Part 1:						
Equipment protection CSA C22.2 NO. 600	h by flameproof enclosures "d" 79-31:2015 (Ed 2): Explosive Atmospheres – Part 31:					
Equipment dust ignit	on protection by enclosure 'T'					
Model No:	Rating					
GNExCP7-BG-S	Class I Div 2 Group ABCD T6 Ta -55°C to +70°C Class II Div 2 Group FG T4 Ta -55°C to +70°C Class III Div 1 & 2 Ta -55°C to +70°C					
GNExCP7-BG-D Class I Div 2 Group ABCD T5 Ta -55°C to +70°C Class I Div 2 Group ABCD T6 Ta -55°C to +65°C Class II Div 2 Group FG T4 Ta -55°C to +70°C						
Class Zone Ratin	gs for US (NEC)					
Model No:	Rating					
GNExCP7-BG-S	Class I Zone 1 AEx db IIC T6 Gb Ta -55°C to +70°C Zone 21 AEx tb IIIC T110°C Db Ta -55°C to +70°C					
GNExCP7-BG-D Class I Zone 1 AEx db IIC T5 Gb Ta -55°C to +70°C Class I Zone 1 AEx db IIC T6 Gb Ta -55°C to +65°C Zone 21 AEx tb IIIC T135°C Db Ta -55°C to +70°C						
Class Zone Ratin	gs for Canada (CEC)					

Model No:	Rating			
GNExCP7-BG-S	Ex db IIC T6 Gb X Ta -55°C to +70°C Ex tb IIIC T110°C Db Ta -55°C to +70°C			
GNExCP7-BG-D	NEXCP7-BG-D 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 T135°C Db Ta -55°C to +70°C			
Installation must be carried out in compliance with the National Electric Code / Canadian Electric Code				

3.2 ATEX / IECEx & UKEx Ratings

	Standards
EN60079-0:2018/ Equipment Gener EN60079-1:2014/ Equipment Protec EN60079-31:2014 Equipment Dust I	IEC60079-0:2017 (ed.7): Explosive Atmospheres - al Requirements. IEC60079-1:2014 (ed.7): Explosive Atmospheres - tion by Flameproof Enclosures "d". I/IEC60079-31:2013 (ed.2): Explosive Atmospheres - gnition Protection by enclosure "t".
Model No:	Rating
GNExCP7-BG-S	Ex db IIC T6 Gb Ta –55°C to +70°C Ex tb IIIC T80°C Db Ta –55°C to +70°C
GNExCP7-BG-D	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
See Product table	for electrical ratings of each unit model
Certificate No.	DEMKO 19 ATEX 2101X IECEx ULD 19.0097X UKEx UL UL21UKEX2134X
Epsilon x Equipment Group and Category:	$\langle E_X \rangle$ II 2G II 2D
CE Marking and Notified Body No.	CE 2813
UKCA Marking a Notified Body No	UK 0518
4) Zones, (Temper The units can be in	Gas Group, Category and ature Classification stalled in locations with the following conditions:
r	Area Classification Gas
Zone 1	Explosive gas air mixture likely to occur in normal operation.
Zone 2	Explosive gas air mixture not likely to occur in normal operation, and if it does, it will only exist for a short time.
	Gas Groupings
Group IIA	Propane

Group IIB	Ethylene
Group IIC	Hydrogen and Acetylene
Тетр	erature Classification for Gas Applications
T1	450° C
T2	300° C
Т3	200° C
T4	135° C

Т5	100°C			
T6	85°C (GNExCP7-BG-D up to 65°C ambient)			
	Area Classification Dust			
Zone 21	Explosive dust air mixture likely to occur in normal operation.			
Zone 22	Explosive dust air mixture not likely to occur in normal operation, and if it does, it will only exist for a short time.			
	Dust Groupings			
Group IIIA	Combustible Dusts			
Group IIIB	Non-Conductive Dusts			
Group IIIC	Conductive Dusts			
	Equipment Category			
2G, 2D				
	Equipment Protection Level			
Gb, Gc, Db, Dc				
Maximu	m Surface Temperature for Dust Applications			
80' 85°	PC (GNExCP7-BG-S) ATEX/IECEx/UKEx PC (GNExCP7-BG-D) ATEX/IECEx/UKEx 110°C (GNExCP7-BG-S) Class Zone 135°C (GNExCP7-BG-D) Class Zone			
	Ambient Temperature Range			
-55°C to +70°C (-0	57°F to +158°F)			
	IP Rating			
IP66 to EN60529 4 / 4X / 3R / 13 to UL50E / NEMA250				
Installation must be carried out in compliance with the latest issue of the following standards:				
EN60079-14 / IEC60079-14: Explosive atmospheres - Electrical installations design, selection and erection EN60079-10-1 / IEC60079-10-1: Explosive atmospheres - Classification of areas. Explosive gas atmospheres EN60079-10-2 / IEC60079-10-2: Explosive atmospheres - Classification of areas. Explosive dust atmospheres				

5) Specific Conditions for Safe Use

The stainless steel lift flap is not earthed and may generate an ignition-capable level of electrostatic charges. It has a max capacitance of 6.33pF according to CSA C22.2 NO. 60079-0 / UL 60079-0:2017, clause 7.5 or EN/IEC60079-0, clause 7.5.

Equipment is permitted to be wall mounted only in vertical position. The enclosure base is permitted in two mounting positions, with the double entry lowermost or uppermost.



Fig 1 Wall mounting

Flame Path Positions



No repair to the Flamepaths is permitted

7) Location and Mounting

The location of the call point should enable ease of access for operation and testing. The unit should be mounted using the 4 off fixing holes which will accept up to M5 sized fixings. They should only be fixed to services that can carry the weight of the unit.

To gain access to the mounting holes in the base the front cover must be removed. See Section 8.



Fig. 1 View of base unit showing fixing centres (in mm).

8) Access to the Flameproof Enclosure



Warning – High voltage may be present, risk of electric shock. DO NOT open when energised, disconnect power before opening.



Warning – Hot surfaces. External surfaces and internal components may be hot after operation, take care when handling the equipment.

To access the Ex d chamber, remove the four off M6 x 60 hexagon socket head screws and withdraw the flameproof cover taking extreme care not to damage the flameproof faces in the process. M6 cover screws are Class A4-70 stainless steel and only screws of this category can be used for the enclosure.

On completion of the installation, the flameproof joints should be inspected to ensure that they are clean and that they have not been damaged during installation.

Once the screws are removed the cover will hang down out of the way to gain access to the terminals, the internal earth terminal and mounting hole recesses.



M6 x 60 Cap head Cover Bolts - 4 off Positions



Check that the earth bonding wire between the two castings is secure and the 'O' ring seal is in place.

When replacing the flameproof cover casting ensure that it is square with the flameproof chamber casting before inserting. Carefully place the cover on the base. Only after the cover is fully in place should the four M6 x 60 Stainless Steel A4-70 cover bolts and their spring washer be tightened down (tighten torque 3.5Nm). Never use the cover bolts to force the cover into position.

9) Earthing

The units are provided with internal and external earth terminals which are mounted in the base of the unit.

Internal earthing connections should be made to the Internal Earth terminal in the base of the housing using a ring crimp terminal to secure the earth conductor under the earth clamp.

The earth conductor should be at least equal in size and rating to the incoming power conductors.



10) Power Supply Selection Electrical Ratings

See table 1 250Vac max. / 5.0A max (3.33A max NEC/CEC) 48Vdc max. / 1.0A max 24Vdc max / 3.0A max

11) Selection of Cable. Cable Glands, Blanking Elements & Adapters

ATEx/IECEx & UKEx Installations:

The equipment must only be installed by suitably qualified personnel in accordance with the latest issues of the relevant standards:

EN60079-14 / IEC60079-14: Explosive atmospheres -Electrical installations design, selection and erection EN60079-10-1 / IEC60079-10-1: Explosive atmospheres -Classification of areas. Explosive gas atmospheres

The installation of the units must also be in accordance with any local codes that may apply and should only be carried out by a competent electrical engineer who has the necessary training.

The equipment must not be installed with any obstruction to the flanged flameproof joint any closer than permitted as per EN/IEC60079-14, table 13.

For high ambient temperatures the cable entry temperature may exceed +70°C or the cable branching point temperature may exceed 80°C and therefore suitable heat resisting cables and cable glands must be used, with a rated service temperature of at least the values stated below:

For Single Switch models GNExCP7-BGS:

Max. ambient temperature °C	50	55	60	65	70	
req. Cable / Cable Gland rating: °C	76	81	86	91	96	

For Dual Switch models GNExCP7-BGD:

Max. ambient	40	45	50	55	60	65	70
temperature °C							
req. Cable /	80	85	90	95	100	105	110
Cable Gland							
rating: °C							

The cable gland entries have an M20 x 1.5 entry thread. Only suitably rated ATEX / IECEx or UKEx certified cable glands which must be suitable for the type of cable being used and also meet the requirements of the current Ex 'd' flameproof installation standards EN 60079-14 / IEC60079-14.

When only one cable entry is used the other entries must be closed with suitably rated ATEX / IECEx or UKEx certified blanking plugs that meet the requirements of the current Ex 'db' and Ex 'tb' flameproof installation standards EN 60079-14 / IEC60079-14 (tightening torque 10Nm).

The stainless steel lift flap is not earthed and may generate an ignition-capable level of electrostatic charges. It has a max capacitance of 6.33pF according to EN/IEC60079-0, clause 7.5.

Caution do not change factory applied finishes <u>NEC / CEC Installations:</u>

The equipment must only be installed by suitably qualified personnel in accordance with the latest issues of the relevant standards:

The installation of the units must also be in accordance with any local codes that may apply and should only be carried out by a competent electrical engineer who has the necessary training.

The equipment must not be installed with any obstruction to the flanged flameproof joint any closer than permitted as per the NEC/CEC.

For high ambient temperatures the cable entry temperature may exceed +60°C or the cable branching point temperature may exceed 60°C and therefore suitable heat resisting cables and cable glands must be used, with a rated service temperature of at least the values stated below:

For Single Switch model GNExCP7-BG-S:

Max. ambient temperature °C	35	40	45	50	55	60	65	70	
req. Cable / Cable Gland rating: ºC	61	66	71	76	81	86	91	96	

For Dual Switch model GNExCP7-BG-D:

Max. ambient temperature °C	20	25	30	35	40	45	50	55	60	65	70
req. Cable / Cable Gland rating: ºC	60	65	70	75	80	85	90	95	100	105	110

For use in Class I Division II locations, in order to maintain the db type protection, flameproof conduit seals and/or cable glands must be used.

The cable gland entries have an M20 x 1.5 entry thread. Only suitably rated and certified cable glands which must be suitable for the type of cable being used and also meet the requirements of the current Ex 'db' and Ex 'tb' flameproof and NEC/CEC installation standards (tightening torque 10Nm).

When only one cable entry is used the other entries must be closed with suitably rated and certified blanking plugs that meet the requirements of the current Ex 'db' and Ex 'tb' flameproof and NEC/CEC installation standards (tightening torque 10Nm).

All Installations:

To access the Ex d chamber, remove the four off M6 x 60 stainless steel A4-70 Cap Head cover bolts.

If the installation is made using conduit, openings must have a sealing fitting connected as close as practical to the wall of the enclosure, but in no case more than the size of the conduit or 2" of enclosure, whichever is the lesser.

Electrical connections are to be made into the PCB / terminal blocks / DIN rail provided.

Internal earthing connections should be made to the Internal Earth terminal on the PCBA. The earth conductor should be at least equal in size and rating to the incoming power conductors.

On completion of the installation the flameproof joint surfaces should be inspected to ensure that they are clean and that they have not been damaged during installation. Flamepaths are not intended to be repaired.

When fitting the flameproof cover ensure the cover is sitting flat and correctly positioned on the base. Insert the M6 x 60 stainless steel A4-70 Cap Head cover bolts and fully tighten down (tightening torque 3.5Nm), ensuring no gap is visible between the cover and base of the enclosure.

If a high IP (Ingress Protection) rating is required then a suitable sealing washer must be fitted under the cable glands or blanking plugs.

The enclosure is non-conducting and may generate an ignition-capable level of electrostatic charges under certain extreme conditions. The user should ensure that the equipment is not installed in a location where it may be subjected to external conditions that might cause a build-up of electrostatic charges on non-conducting surfaces.

The M12 Cap fitted to the top side of the unit is not a user serviceable part and must not be removed during installation and maintenance.

The GNExCP7 Call Point range can be supplied with the following types of adapters: M20 to ½" NPT M20 to ¾" NPT M20 to ¾25

It is important to note that stopping plugs cannot be fitted onto adapters, only directly onto the M20 entries.

Any other adapters used must be suitably rated and ATEX / IECEx / UKEx or NEC/CEC certified adapters.

12) Cable & Wiring Connections

Wiring methods shall be in accordance with CSA C22.1, Canadian Electrical Code, Part I, Safety Standard for Electrical Installations, Section 32; and CAN/ULC-S524, Standard for Installation of Fire Alarm Systems.

The units come with two options for the terminal block. A DIN rail version which has 8-way connection and allows for limited wiring of EOL devices, or a 6 Way terminal block.

The PCB Terminal Version has a 6-way connector but is designed to allow for full configuration with Series and EOL devices in a number of wiring configurations.

For full wiring details see wiring diagrams D202-06-211

For EOL and Series device limitations and configurations see Section 15. Fitting can be requested by E2S at the order stage or added to the correct terminal blocks afterward. All devices must comply with the requirements stipulated in section 15.

Electrical Connections are to be made into the terminal blocks using solid or stranded wire.

Wires having a cross sectional area between 0.5 $\rm mm^2$ to 2.5mm² (AWG 20 - 14) can be connected to each terminal way.

If an input and output wire is required the 2-off Live/Neutral or +/- terminals can be used. If fitting 2-off wires to one terminal way the sum of the 2-off wires must be a maximum cross sectional area of 2.5mm².

Strip wires to 8mm. Wires may also be fitted using ferrules. Terminal screws need to be tightened down with a tightening torque of 0.45 Nm / 5 Lb-in.

When connecting wires to the terminals great care should be taken to dress the wires so that when the cover is inserted into the chamber the wires do not exert excess pressure on the terminal blocks. This is particularly important when using cables with large cross sectional areas such as 2.5mm².

13) Testing unit operation

The break glass unit can be tested without the need to break/replace the frangible glass element.

A test key (Plastic Key Supplied with unit) is used to mechanically drop the glass down activating the switch.



The test key is inserted in the test cam and rotated clockwise by an angle of 90° the glass element will visibly drop down in the viewable window.

The call point switch will now change over its contacts to operate the alarm.

Once testing is complete the unit needs to be reset, the test key is rotated back anticlockwise 90° to its original vertical position. The glass element should now raise up so it is level again (horizontal) in the viewable window.



14) Replacement of glass element

If the break glass unit has been operated the broken glass element can be quickly replaced.

The break glass cover plate is removed by unscrewing the 4 off M4 cap head screws attaching it.



Once the cover is removed the broken glass will be free to be removed, clean out any other fragments of glass carefully.



To fit the new glass element rotate the test cam clockwise by an angle of 90° (use test key supplied) this will than allow the glass to fit back into the pocket it sits in, resting on the pivot point and test cam, ensure the plunger shaft is resting on the top of the glass, it might need to be pushed up slightly to achieve this.



Whilst lightly holding the glass in place rotate the test cam back anticlockwise 90° to its original vertical position. The

glass element should now raise up so it is level again (horizontal) in the viewable window.

Replace the cover plate and tighten the 4 off M4 cap head screws.

Ensure the glass element is free to move under the cover plate. This can be done by running through the units test operation. See section 13 of this instruction manual.

15) End-of-Line and Series Devices

All models can be fitted with series resistors, end-of-line monitoring resistors, monitoring diodes and zener diodes if supplied with direct current up to 48Vdc and limited to a maximum total power consumption no greater than 6.224W.

Min. resistor values and current limitations must be observed depending on supply voltage and type of components fitted. If a combination of resistors / diodes / zener diodes is used, values for all components must be observed and lowest current limit for either component becomes overall limit.

Current limitation for units fitted with end-of-line resistors, diodes or zener diodes must be ensured by using a current limited power supply or fitting a current limiting resistor at the control panel (not provided).

The following table 2 shows limitations for all possible variations:

EOL (End of line) device;

- resistor ExxxR
- diode ED1
- zener ExxxZ

Series (In line) device;

- resistor SxxxR
- diode SD1
- zener SxxxZ
- LED

Microswitch 1 = M/S 1 Microswitch 2 = M/S 2

	Supply voltage	ge 24Vdc	Supply voltage 48Vdc		
Type of	value	Max.	value	Max.	
component		current		current	
fitted		(mA)			
End-of-Line	min. 470R/	3000	min. 2k2 /	1000	
Resistor	2W or min.		2W or min.		
*See note	2k2 / 0.5W		8k2 / 0.5W		
End-of-Line	2W	59.13	2W	25.26	
Diode					
Type 1N5401					
Series	min. 470R/	3000	min. 2k2 /	1000	
Resistor	2W or min.		2W or min.		
*See note	2k2 / 0.5W		8k2 / 0.5W		
Series Diode	2W	59.13	2W	25.26	
Type 1N5401					
Series Zener	3.3V	230	3.3V	230	
Diode Type	4.7V	162	4.7V	162	
1N5333B	5.1V	149	5.1V	149	
	5.6V	136	5.6V	136	
	6.2V	122	6.2V	122	
	6.8V	112	6.8V	112	
	10V	76	10V	76	
	12V	63	12V	63	

Table 2 : EOL and Series Devices limits

The unit can be wired with a maximum of 4 module devices – see wiring diagram D202-06-211

Note:- The maximum voltage stated must not be exceeded, as the internal resistor modules are rated as compliant with Ex d according to the units voltage

16) Maintenance, Overhaul, Repair and Cleaning

Maintenance, repair and overhaul of the equipment should only be carried out by suitably qualified personnel in accordance with the current relevant standards:

For ATEX / IECEx / UKEx

EN60079-19	Explosive at	mospheres - Equip	oment repair,
IEC60079-19	overhaul and	I reclamation	
EN 60079-17	Explosive ati	mospheres - Elect	rical
IEC60079-17	installations	inspection and ma	aintenance
For US & CEC (UL 60079-19 overhaul and re	Class / Div / Zo Explosive at clamation	one tmospheres - Equ	ipment repair,
	Explosivo	atmosphoros	Floctrical

UL 60079-17 Explosive atmospheres - Electrical installations inspection and maintenance

Electrostatic charging hazard – clean only with a damp cloth.

Units must not be opened while an explosive atmosphere is present.

Caution do not change factory applied finishes

17) SIL 2 Reliability Data

Reliability and Functional safety IEC/EN61508 which has been assessed and is considered suitable for use in low demand safety function:

- Random Hardware Failures and Systematic Failures (route 2H)
- As an unvoted item (i.e. hardware fault tolerance of 0) at SIL 2

The product was assessed against failure modes:

- Failure to close a contact when the call point is struck with specified force
- Failure to open a contact when the call point is struck with specified force
- Spurious output despite no input

Integrity in respect of failure to close	SIL 2
System Type	А
Hardware Fault Tolerance	0
Safe Failure Fraction (credible claim)	75%
PFD (hazardous failure)	2.3 x 10 ⁻³
Proof Test Interval	Up to 1 year





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	ACN0102	See Sheet 1 RNP 15-04-2022	
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NTS	2 OF 2	D202-06-201	

EU Declaration of Conformity



Manufacturer:	European Safety Systems Ltd. Impress House, Mansell Road, Acton London, W3 7QH United Kingdom
Authorised Representative:	E2S Warnsignaltechnik UG Charlottenstrasse 45-51 72764 Reutlingen Germany

Equipment Type: GNExCP7-BG, GNExCP7-PB, GNExCP7-PM, GNExCP7-PT

Directive 2014/34/EU: Equipment and Protective Systems for use in Potentially Explosive Atmospheres (ATEX) Notified Body for EU type Examination (Module B): UL International Demko A/S Notified Body No.: 0539 Borupvang 5A, 2750 Ballerup, Denmark EU-type Examination Certificate (Module B): DEMKO 19 ATEX 2101X Notified Body for Quality Assurance Notification / Conformity to EU-type Sira Certification Service Notified Body No.: 2813 based on quality assurance of the production process (Module D): CSA Group Netherlands B.V, Utrechtseweg 310, 6812 AR, Arnhem, Netherlands Quality Assurance Notification (Module D): SIRA 05 ATEX M342 Provisions fulfilled by the equipment: II 2G Ex d IIC T6...T5 Gb II 2D Ex tb IIIC T90°C....T80°C Db Standards applied: EN 60079-0:2018 EN 60079-1:2014 EN 60079-31:2014 IP6X Dust Protection to EN60079-0 / EN60079-31 Directive 2014/30/EU: Electromagnetic Compatibility Directive (EMC) Standards applied: EN 61000-6-1:2007 EN 61000-6-2:2005 EN 61000-6-3:2007 / A1:2011 / AC: 2012

Directive 2011/65/EU: Restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS)

The product and all the components contained within it are in accordance with the restriction of the use of hazardous substances in electrical and electronic equipment, including amendment by Directive 2015/863/EU.

EN 61000-6-4:2007 / A1: 2011

Regulation (EC) 1907/2006: Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

The product and all the components contained within it are free from substances of very high concern.

Other Standards and Regulations

EN 60529:1991 + A1:2000 + A2:2013. - Degrees of protection provided by enclosures (IP code) – enclosure rated IP66/67

On behalf of European Safety Systems Ltd., I declare that, on the date the equipment accompanied by this declaration is placed on the market, the equipment conforms with all technical and regulatory requirements of the above listed directives, regulations and standards.

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

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Martin Streetz Quality Assurance Manager Document No.: Date and Place of Issue: DC-078_Issue_E London, 23/12/2020 DC-078_Issue_E - Page 1 of 1 - QAF_252_Issue_5

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Manufacturer:

European Safety Systems Ltd. Impress House, Mansell Road, Acton London, W3 7QH United Kingdom

Equipment Type: GNExCP7-BG, GNExCP7-PB, GNExCP7-PM, GNExCP7-PT

Directive UKSI 2016:1107 (as amended by UKSI 2019:696) - Schedule 3A, Part 1 : Product or Protective System Intended for use in Potentially Explosive Atmospheres (UKCA) Notified Body for UK type Examination (Module B): UL International (UK) Ltd Notified Body No.: 0843 Unit 1-3 Horizon Kingsland Business Park, Wade Road, Basingstoke, Hampshire RG24 8AH UK UK-type Examination Certificate (Module B): UL21UKEX2134X Notified Body for Quality Assurance Notification / Conformity to EU-type Sira Certification Service based on quality assurance of the production process (Module D): Notified Body No.: 0518 Rake Lane, Eccleston, Chester CH4 9JN, UK Quality Assurance Notification (Module D): CSAE 22UKQAN0046 Provisions fulfilled by the equipment: II 2G Ex d IIC T6...T5 Gb II 2D Ex tb IIIC T90°C... T80°C Db Standards applied: EN 60079-0:2018 EN 60079-1:2014 EN 60079-31:2014 IP6X Dust Protection to EN60079-0 / EN60079-31 Directive 2014/30/EU: Electromagnetic Compatibility Directive (EMC) Standards applied: EN 61000-6-1:2007 EN 61000-6-2:2005 EN 61000-6-3:2007 / A1:2011 / AC: 2012

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Regulation (EC) 1907/2006: Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

The product and all the components contained within it are free from substances of very high concern.

Other Standards and Regulations

EN 60529:1991 + A1:2000 + A2:2013. - Degrees of protection provided by enclosures (IP code) - enclosure rated IP66/67

On behalf of European Safety Systems Ltd., I declare that, on the date the equipment accompanied by this declaration is placed on the market, the equipment conforms with all technical and regulatory requirements of the above listed directives, regulations and standards.

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

Martin Streetz Quality Assurance Manager Document No.: Date and Place of Issue: DC-099_lssue_A London, 24/02/2022 DC-099_lssue_A - Page 1 of 1 - QAF_252_lssue_5

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