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Translation

1 # EU-Type Examination Certificate Supplement 3

Change to Directive 2014/34/EU

2 **Equipment intended for use in potentially explosive atmospheres Directive 2014/34/EU**

3 EU-Type Examination Certificate Number: **BVS 09 ATEX E 162**

4 Product: **Fluorescent light fitting type nLL* 08 0**/** ***

5 Manufacturer: **Cooper Crouse-Hinds GmbH**

6 Address: **Neuer Weg-Nord 49, 69412 Eberbach, Germany**

7 This supplementary certificate extends EC-Type Examination Certificate No. BVS 09 ATEX E 162 to apply to products designed and constructed in accordance with the specification set out in the appendix of the said certificate but having any acceptable variations specified in the appendix to this certificate and the documents referred to therein.

8 DEKRA EXAM GmbH, Notified Body number 0158, 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 product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres given in Annex II to the Directive.
The examination and test results are recorded in the confidential Report No. BVS PP 10.2029 EU.

9 Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN 60079-0:2012 + A11:2013 **General requirements**
EN 60079-31:2014 **Protection by Enclosure "t"**

10 If the sign "X" is placed after the certificate number, it indicates that the product is subject to the Special Conditions for Use specified in the appendix to this certificate.

11 This EU-Type Examination Certificate relates only to the design and construction of the specified product. Further requirements of the Directive apply to the manufacturing process and supply of this product. These are not covered by this certificate.

12 The marking of the product shall include the following:

Ex II 2D Ex tb IIIC T80°C Db

DEKRA EXAM GmbH
Bochum, 2018-05-22

Signed: Jörg Koch
Certifier

Signed: Dr Michael Wittler
Approver

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13 **Appendix**

14 **EU-Type Examination Certificate**

BVS 09 ATEX E 162
Supplement 3

15 **Product description**

15.1 **Subject and type**

Fluorescent light fitting type nLL* 08 0**/** *

Asterisk	Description	
1.	Material of enclosure	
	K	: Plastic enclosure
	M	: Pole mounted light (Plastic enclosure)
	S	: Stainless steel enclosure
2. - 5.	Power and quantity of lamp	
	18/18	: 2x 18 W
	36	: 1x 36 W
	36/36	: 2x 36 W
	58	: 1x 58 W
	58/58	: 2x 58 W
6.	Features	
	w/o	: Standard
	V-CG-S	: Emergency luminaire with V-CG-S module
	N	: Emergency light with internal or external battery

15.2 **Description**

The fluorescent light fitting type nLL* 08 0**/** * is an explosion-protected electrical apparatus that accommodates single or twin fluorescent lamps with socket G13 to provide lighting in potentially explosive atmospheres of zone 21 / EPL Db.

The electronic ballast type 3 P 2** 08 0 /08 1 according to TÜV 12 ATEX 105421 U is used as ballast for the lamp type nLL* 08 0**/** *. As an alternative, the separately certified ballast EVG09 according to BVS 09 ATEX E 054 U may be installed.

The lamps may be replaced inside the potentially explosive atmosphere if the fluorescent light fitting is equipped with a separately certified light switch that meets the requirements of the type of protection Flameproof Enclosure. Either this switch disconnects the lamp at all poles when opening the fluorescent light fitting or the voltage of the fluorescent light fitting is set to zero before opening. The variant without a light switch contains a relevant warning on the outside of the enclosure.

Suitable lamps to be used are fluorescent tubes of type T8.

The fluorescent light fitting enclosure consists of either glass-mat reinforced polyester or of stainless steel; the light-permitting diffuser is made of polycarbonate. The surrounding groove of the protective cover contains a self-adhesive gasket.

The fluorescent light fitting type nLL* 08 0**/** N is either equipped with one battery consisting of five NiCd-cells of 4Ah connected in series, unless the separately certified battery box type eB* * (BVS 09 ATEX 044) is used which is flanged on and supplied with either a battery type U or one of type P, providing 4 Ah or 7 Ah, respectively.

The fluorescent lighting fixture type nLL* 08 0**/** * can optionally be manufactured with the V-CG-S module according to ATEX Certificate BVS 15 ATEX E 071 U.

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Reason of the supplement:

- Change to Directive 2014/34/EU
- Updating to the standards EN 60079-0:2012+A11:2013 and EN 60079-31:2014
- The cover of the connection box of the luminaire type nLLM 08 ***/** ** can be manufactured of an alternative material.
- Change of the feature with V-CG-S module instead of the previous used C-GS module

Listing of all components

Subject and type	Certificate
Breathing device	SIRA 99 ATEX 3050 U

With this supplement the certificate is changed to Directive 2014/34/EU.
(Annotation: In accordance with Article 41 of Directive 2014/34/EU, EC-Type Examination Certificates referring to 94/9/EC that were in existence prior to the date of application of 2014/34/EU (20 April 2016) may be referenced as if they were issued in accordance with Directive 2014/34/EU. Supplementary Certificates to such EC-Type Examination Certificates, and new issues of such certificates, may continue to bear the original certificate number issued prior to 20 April 2016.)

15.3 **Parameters**

Type of luminaire	Electronic ballast	Feed-through wiring		Rated voltage	Frequency	Ambient temperature
		with	w/o			
Standard nLL. 08						
nLL* 08 018/18	EVG Luxtronic 2x18W	x	x	220 V – 240 V AC 220 V – 240 V DC	50 / 60 Hz 0 Hz	-25 °C - +55 °C
nLL* 08 036	EVG Luxtronic 1x36W	x	x	220 V – 240 V AC 220 V – 240 V DC	50 / 60 Hz 0 Hz	-25 °C - +55 °C
nLL* 08 036/36	EVG Luxtronic 2x36W	x	x	220 V – 240 V AC 220 V – 240 V DC	50 / 60 Hz 0 Hz	-25 °C - +55 °C
nLL* 08 058	EVG Luxtronic 1x58W	x	x	220 V – 240 V AC 220 V – 240 V DC	50 / 60 Hz 0 Hz	-25 °C - +50 °C
nLL* 08 058/58	EVG Luxtronic 2x58W	x	x	220 V – 240 V AC 220 V – 240 V DC	50 / 60 Hz 0 Hz	-25 °C - +45 °C
nLL* 08 018/18	EVG 09 218	x	x	110 V – 254 V AC 110 V – 250 V DC	50 / 60 Hz 0 Hz	-25 °C - +50 °C [1] -25 °C - +55 °C [2]
nLL* 08 036	EVG 09 136	x	x	110 V – 254 V AC 110 V – 250 V DC	50 / 60 Hz 0 Hz	-25 °C - +50 °C [1] -25 °C - +55 °C [2]
nLL* 08 036/36	EVG 09 236	x	x	110 V – 254 V AC 110 V – 250 V DC	50 / 60 Hz 0 Hz	-25 °C - +50 °C [1] -25 °C - +55 °C [2]
nLL* 08 058	EVG 09 158	x	x	220 V – 254 V AC 220 V – 250 V DC	50 / 60 Hz 0 Hz	-25 °C - +55 °C
nLL* 08 058/58	EVG 09 258	x		220 V – 254 V AC 220 V – 250 V DC	50-60 Hz 0 Hz	-25 °C - +40 °C
nLL* 08 058/58	EVG 09 258		x	220 V – 254 V AC 220 V – 250 V DC	50-60 Hz 0 Hz	-25 °C - +45 °C

[1] Temperature range for rated voltage $U_N \leq 220$ V

[2] Temperature range for rated voltage $U_N > 220$ V

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Type of luminaire	Electronic ballast	Feed-through wiring		Rated voltage	Frequency	Ambient temperature
		with	w/o			
Emergency light nLL. 08 N - internal battery 4Ah						
nLL* 08 018/18 N	VE/EVG Luxtronic 2x18 W 1,5 h		x	220 V – 240 V AC	50 / 60 Hz	-25 °C - +45 °C
nLL* 08 018/18 N	VE/EVG Luxtronic 2x18 W 3,0 h		x	220 V – 240 V AC	50 / 60 Hz	-25 °C - +45 °C
nLL* 08 036/36 N	VE/EVG Luxtronic 2x36 W 1,5 h		x	220 V – 240 V AC	50 / 60 Hz	-25 °C - +45 °C
Emergency light nLL. 08 N - external battery 4Ah						
nLL* 08 018/18 N	VE/EVG Luxtronic 2x18 W 1,5 h	x	x	220 V – 240 V AC	50 / 60 Hz	-25 °C - +45 °C
nLL* 08 018/18 N	VE/EVG Luxtronic 2x18 W 3 h	x	x	220 V – 240 V AC	50 / 60 Hz	-25 °C - +45 °C
nLL* 08 036/36 N	VE/EVG Luxtronic 2x36 W 1,5 h	x	x	220 V – 240 V AC	50 / 60 Hz	-25 °C - +40 °C
Emergency light nLL. 08 N - external battery 7 Ah						
nLL* 08 036/36 N	VE/EVG Luxtronic 2x36 W 3 h	x		220 V – 240 V AC	50 / 60 Hz	-25 °C - +40 °C
Emergency light nLL. 08 V-CG-S						
nLL* 08 018/18 V-CG-S	EVG 09 218 + V-CG-S	x	x	220 V – 254 V AC 195 V – 250 V DC	50 / 60 Hz 0 Hz	-25 °C - +50 °C
nLL* 08 036/036 V-CG-S	EVG 09 236 + V-CG-S	x	x	220 V – 254 V AC 195 V – 250 V DC	50 / 60 Hz 0 Hz	-25 °C - +50 °C
nLL* 08 058/058 V-CG-S	EVG 09 258 + V-CG-S	x		220 V – 254 V AC 195 V – 250 V DC	50 / 60 Hz 0 Hz	-25 °C - +40 °C
nLL* 08 058/058 V-CG-S	EVG 09 258 + V-CG-S		x	220 V – 254 V AC 195 V – 250 V DC	50 / 60 Hz 0 Hz	-25 °C - +45 °C

16 **Report Number**

BVS PP 10.2029/EU, as of 2018-05-22

17 **Special Conditions for Use**

None

18 **Essential Health and Safety Requirements**

The Essential Health and Safety Requirements are covered by the standards listed under item 9.

19 **Drawings and Documents**

Drawings and documents are listed in the confidential report.

We confirm the correctness of the translation from the German original.
In the case of arbitration only the German wording shall be valid and binding.

DEKRA EXAM GmbH
Bochum, dated 2018-05-22
BVS-Pz/Nu A 20180368

Certifier

Approver

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Translation

1 # Type Examination Certificate Supplement 3

Change to Directive 2014/34/EU

2 **Component Intended for use on/in an Equipment or Protective System intended for use in potentially explosive atmospheres**
Directive 2014/34/EU

3 Type Examination Certificate Number: **BVS 09 ATEX E 147**

4 Product: **Fluorescent light fitting type nLL* 08 0**/** ***

5 Manufacturer: **Cooper Crouse-Hinds GmbH**

6 Address: **Neuer Weg-Nord 49, 69412 Eberbach, Germany**

7 This supplementary certificate extends Type Examination Certificate No. BVS 09 ATEX E 147 to apply to products designed and constructed in accordance with the specification set out in the appendix of the said certificate but having any variations specified in the appendix attached to this certificate and the documents referred to therein.

8 DEKRA EXAM GmbH certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres given in Annex II to the Directive.
The examination and test results are recorded in the confidential Report No. PP 09.2180 EU.

9 Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN 60079-0:2012 + A11:2013	**General requirements**
EN 60079-1:2014	**Flameproof enclosure "d"**
EN 60079-7:2015	**Increased Safety "e"**
EN 60079-11:2012	**Intrinsic Safety "i"**
EN 60079-15:2010	**Type of Protection "n"**
EN 60079-18:2015	**Encapsulation "m"**
EN 60079-31:2014	**Protection by Enclosure "t"**

10 The sign "U" is placed after the certificate number. It indicates that this certificate must not be mistaken for a certificate intended for an equipment or protective system. This partial certification may be used as a basis for certification of an equipment or protective system respectively product.

11 This Type Examination Certificate relates only to the design and construction of the specified product. Further requirements of the Directive apply to the manufacturing process and supply of this product. These are not covered by this certificate.

12 The marking of the product shall include the following:

⟨Ex⟩ **II 3G Ex nA * IIC T4 Gc**
II 3D Ex tc IIIC T80°C Dc
*) The marking of the different variants will be completed by the types of protection of the variable built in components. See also clause 1) Subject and type for a complete listing of the differences

DEKRA EXAM GmbH
Bochum, 2018-05-23

Signed: Jörg Koch
Certifier

Signed: Dr Michael Wittler
Approver

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13 **Appendix**

14 **Type Examination Certificate**

BVS 09 ATEX E 147
Supplement 3

15 **Product description**

15.1 **Subject and type**

Fluorescent light fitting type nLL* 08 0**/** *

Asterisk	Description
1.	Material of enclosure
	K : Plastic enclosure
	M : Pole mounted light (Plastic enclosure)
	S : Stainless steel enclosure
2. - 5.	Power and quantity of lamp
	18/18 : 2x 18 W
	36 : 1x 36 W
	36/36 : 2x 36 W
	58 : 1x 58 W
	58/58 : 2x 58 W
6.	Features
	w/o : Standard
	V-CG-S : Emergency luminaire with V-CG-S module
	N : Emergency light with internal or external battery

Additional types of protection caused by used components:
Luminaire switch (Ex db, Ex eb), V-CG-S module (Ex eb, Ex ib and Ex mb), Electronic ballast EVG09 (Ex db and Ex eb) and the battery box (Ex db, Ex, eb, Ex ib and Ex mb)

15.2 **Description**

The fluorescent light fitting type nLL* 08 0**/** * is an explosion-protected electrical apparatus that accommodates single or twin fluorescent lamps with socket G13 to provide lighting in potentially explosive atmospheres of Zone 2 / EPL Gc and Zone 22 / EPL Dc.

The electronic ballast type 3 P 2** 08 0 /08 1 according to TÜV 12 ATEX 105421 U is used as ballast for the lamp type nLL* 08 0**/** *. As an alternative, the separately certified ballast EVG09 according to BVS 09 ATEX E 054 U may be installed which is suitable for use in Zone 1 / EPL Gb.

The lamps may be replaced inside the potentially explosive atmosphere if the fluorescent light fitting is equipped with a separately certified light switch that meets the requirements of the type of protection Flameproof Enclosure. Either this switch disconnects the lamp at all poles when opening the fluorescent light fitting or the voltage of the fluorescent light fitting is set to zero before opening. The variant without a light switch contains a relevant warning on the outside of the enclosure.

Suitable lamps to be used are fluorescent tubes of type T8.

The fluorescent light fitting enclosure consists of either glass-mat reinforced polyester or of stainless steel; the light-permitting diffuser is made of polycarbonate. The surrounding groove of the protective cover contains a self-adhesive gasket.

The fluorescent light fitting type nLL* 08 0**/** N is either equipped with one battery consisting of five NiCd-cells of 4Ah connected in series, unless the separately certified battery box type eB* * (BVS 09 ATEX 044) is used which is flanged on and supplied with either a battery type U or one of type P, providing 4 Ah or 7 Ah, respectively.

The types of protection for Zone 1 / EPL Gb listed in the marking are stated on the type label due to the components built into the luminaire.

The fluorescent lighting fixture type nLL* 08 0**/** * can optionally be manufactured with the V-CG-S module according to ATEX Certificate BVS 15 ATEX E 071 U.

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Reason of the supplement:

- Change to Directive 2014/34/EU
- Updating to the standards EN 60079-0:2012+A11:2013, EN 60079-1:2014, EN 60079-7:2015, EN 60079-11:2012, EN 60079-18:2015 and EN 60079-31:2014
- The cover of the connection box of the luminaire type nLLM 08 ***/** ** can be built from an alternative material.
- Change of the feature with V-CG-S module instead of the previous used C-GS module

Listing of all components

Subject and type	Certificate
Ballast EVG Luxtronic	TÜV 12 ATEX 105421U
Ballast EVG09...	BVS 09 ATEX E 054 U
Luminaire switch Type 07-15*...	EPS 14 ATEX 1765 U
Batterie Block Type 33468******, 22710******	BVS 11 ATEX E 142 U
Batterie Block Type 33468******	BVS 11 ATEX E 103 U
Emergency control unit V-CG-S	BVS 15 ATEX E 071 U
Terminal type 2410	BVS 13 ATEX E 080 U
Terminals WAGO	PTB 98 ATEX 3125 U
Breathing device	SIRA 99 ATEX 3050 U
Switch GHG883..	BVS 12 ATEX E 086U

With this supplement the certificate is changed to Directive 2014/34/EU.
(Annotation: In accordance with Article 41 of Directive 2014/34/EU, EC-Type Examination Certificates referring to 94/9/EC that were in existence prior to the date of application of 2014/34/EU (20 April 2016) may be referenced as if they were issued in accordance with Directive 2014/34/EU. Supplementary Certificates to such EC-Type Examination Certificates, and new issues of such certificates, may continue to bear the original certificate number issued prior to 20 April 2016.)

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15.3 Parameters

Type of luminaire	Electronic ballast	Feed-through wiring		Rated voltage	Frequency	Ambient temperature
		with	w/o			
Standard nLL. 08						
nLL* 08 018/18	EVG Luxtronic 2x18 W	x	x	220 V - 240 V AC 220 V - 240 V DC	50 / 60 Hz 0 Hz	-25 °C - +55 °C
nLL* 08 036	EVG Luxtronic 1x36 W	x	x	220 V - 240 V AC 220 V - 240 V DC	50 / 60 Hz 0 Hz	-25 °C - +55 °C
nLL* 08 036/36	EVG Luxtronic 2x36 W	x	x	220 V - 240 V AC 220 V - 240 V DC	50 / 60 Hz 0 Hz	-25 °C - +55 °C
nLL* 08 058	EVG Luxtronic 1x58 W	x	x	220 V - 240 V AC 220 V - 240 V DC	50 / 60 Hz 0 Hz	-25 °C - +50 °C
nLL* 08 058/58	EVG Luxtronic 2x58 W	x	x	220 V - 240 V AC 220 V - 240 V DC	50 / 60 Hz 0 Hz	-25 °C - +45 °C
nLL* 08 018/18	EVG 09 218	x	x	110 V - 254 V AC 110 V - 250 V DC	50 / 60 Hz 0 Hz	-25 °C - +50 °C [1] -25 °C - +55 °C [2]
nLL* 08 036	EVG 09 136	x	x	110 V - 254 V AC 110 V - 250 V DC	50 / 60 Hz 0 Hz	-25 °C - +50 °C [1] -25 °C - +55 °C [2]
nLL* 08 036/36	EVG 09 236	x	x	110 V - 254 V AC 110 V - 250 V DC	50 / 60 Hz 0 Hz	-25 °C - +50 °C [1] -25 °C - +55 °C [2]
nLL* 08 058	EVG 09 158	x	x	220 V - 254 V AC 220 V - 250 V DC	50 / 60 Hz 0 Hz	-25 °C - +55 °C
nLL* 08 058/58	EVG 09 258	x		220 V - 254 V AC 220 V - 250 V DC	50-60 Hz 0 Hz	-25 °C - +40 °C
nLL* 08 058/58	EVG 09 258		x	220 V - 254 V AC 220 V - 250 V DC	50-60 Hz 0 Hz	-25 °C - +45 °C

[1] Temperature range for rated voltage $U_N \leq 220$ V

[2] Temperature range for rated voltage $U_N > 220$ V

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Type of luminaire	Electronic ballast	Feed-through wiring		Rated voltage	Frequency	Ambient temperature
		with	w/o			
Emergency light nLL. 08 N - internal battery 4 Ah						
nLL* 08 018/18 N	VE/EVG Luxtronic 2x18 W 1.5 h		x	220 V - 240 V AC	50 / 60 Hz	-25 °C - +45 °C
nLL* 08 018/18 N	VE/EVG Luxtronic 2x18 W 3.0 h		x	220 V - 240 V AC	50 / 60 Hz	-25 °C - +45 °C
nLL* 08 036/36 N	VE/EVG Luxtronic 2x36 W 1.5 h		x	220 V - 240 V AC	50 / 60 Hz	-25 °C - +45 °C
Emergency light nLL. 08 N - external battery 4 Ah						
nLL* 08 018/18 N	VE/EVG Luxtronic 2x18W 1.5h	x	x	220 V - 240 V AC	50 / 60 Hz	-25 °C - +45 °C
nLL* 08 018/18 N	VE/EVG Luxtronic 2x18 W 3 h	x	x	220 V - 240 V AC	50 / 60 Hz	-25 °C - +45 °C
nLL* 08 036/36 N	VE/EVG Luxtronic 2x36 W 1.5 h	x	x	220 V - 240 V AC	50 / 60 Hz	-25 °C - +40 °C
Emergency light nLL. 08 N - external battery 7 Ah						
nLL* 08 036/36 N	VE/EVG Luxtronic 2x36 W 3 h	x		220 V - 240 V AC	50 / 60 Hz	-25 °C - +40 °C
Emergency light nLL. 08 V-CG-S						
nLL* 08 018/18 V-CG-S	EVG 09 218 + V-CG-S	x	x	220 V - 254 V AC 195 V - 250 V DC	50 / 60 Hz 0 Hz	-25 °C - +50 °C
nLL* 08 036/036 V-CG-S	EVG 09 236 + V-CG-S	x	x	220 V - 254 V AC 195 V - 250 V DC	50 / 60 Hz 0 Hz	-25 °C - +50 °C
nLL* 08 058/058 V-CG-S	EVG 09 258 + V-CG-S	x		220 V - 254 V AC 195 V - 250 V DC	50 / 60 Hz 0 Hz	-25 °C - +40 °C
nLL* 08 058/058 V-CG-S	EVG 09 258 + V-CG-S		x	220 V - 254 V AC 195 V - 250 V DC	50 / 60 Hz 0 Hz	-25 °C - +45 °C

16 **Report Number**

BVS PP 09.2180 EU, as of 2018-05-23

17 **Installation Instructions**

None

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18 Essential Health and Safety Requirements

The Essential Health and Safety Requirements are covered by the standards listed under item 9.

19 Drawings and Documents

Drawings and documents are listed in the confidential report.

We confirm the correctness of the translation from the German original.
In the case of arbitration only the German wording shall be valid and binding.

DEKRA EXAM GmbH
Bochum, dated 2018-05-23
BVS-Pz/Mu A 20180370

Certifier

Approver

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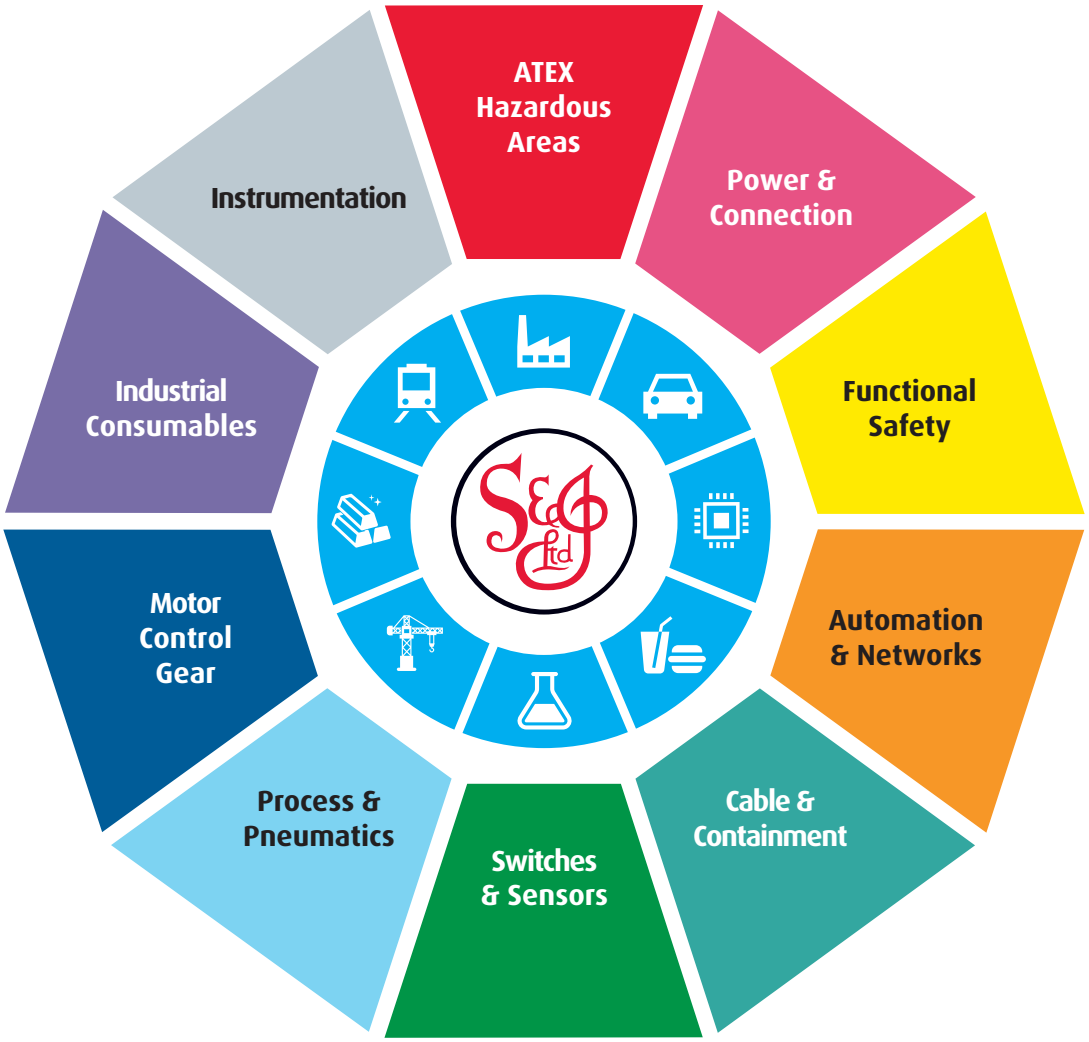

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