



IECEx Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification System for Explosive Atmospheres

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Certificate No.:	IECEx KLCS 23.0023X	Page 1 of 4	<u>Certificate history:</u> Issue 0 (2024-01-09)
Status:	Current	Issue No: 1	
Date of Issue:	2025-05-30		
Applicant:	KLEEV MIDDLE EAST FZE Plot No. MO 0767, Street No. N200, Jebel Ali Free Zone (North), Dubai, P.O. Box: 17259 United Arab Emirates		
Equipment:	Local Control Panel - KPEXXLCP... Series		
Optional accessory:			
Type of Protection:	Flameproof enclosures "d", increased safety 'e', intrinsic safety 'i', encapsulation "m" & Dust – Protection by enclosure "t"		
Marking:	Refer ANNEX to IECEx KLCS 23.0023X		

Approved for issue on behalf of the IECEx
Certification Body:

Ravi Paranjpe

Position:

Director (Operations)

Signature:
(for printed version)

Date:
(for printed version)

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Maharashtra 401501
India





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Manufacturer: **KLEEV MIDDLE EAST FZE**
Plot No. MO 0767, Street No. N200,
Jebel Ali Free Zone (North),
Dubai, P.O. Box: 17259
United Arab Emirates

Manufacturing locations: **KLEEV MIDDLE EAST FZE**
Plot No. MO 0767, Street No. N200,
Jebel Ali Free Zone (North),
Dubai, P.O. Box: 17259
United Arab Emirates

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 60079-11:2023 Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
Edition:7.0

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

IEC 60079-7:2017 Explosive atmospheres - Part 7: Equipment protection by increased safety "e"
Edition:5.1

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:

IN/KLCS/ExTR23.0040/00 **IN/KLCS/ExTR23.0040/01**

Quality Assessment Report:

IN/KLCS/QAR23.0010/00



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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

The KPEXXLCP....Series Local Control Panel consist of pre-certified enclosure, covered by IECEx KLCS 22.0020U, issue 00, which is installed with pre-certified terminal blocks, Ammeter/Voltmeter and signaling and control accessories.

The maximum electrical rating for non- intrinsically safe circuits is 630V/14 Amps and for intrinsically safe circuits is 300 V/14 Amps. Local control Panel is IP 54 for Increase safety "e" and IP66 for Dust protection by enclosure "t"

The maximum number of accessories (control and signalling devices/Ammeter/Voltmeter) are given in below table.

Table 1: Maximum allowed Control and signaling accessories

Model	EXPLOSION-PROOF CONTROL & SIGNALING UNIT					AMMETER	VOLTMETER
	Lamp	Push button	Switch/ Actuator	Emergency Push button	Switch handle		
KPEXXLCP0200150150	-	-	-	-	-	-	-
KPEXXLCP0260260150	-	2	-	-	-	-	-
KPEXXLCP0260260200	-	2	-	-	-	-	-
KPEXXLCP0300200150	1	1	1	1	1	-	-
KPEXXLCP0300200200	1	1	1	1	1	-	-
KPEXXLCP0380380150	6	6	2	2	2	1	1
KPEXXLCP0380380200	6	6	2	2	2	1	1
KPEXXLCP0400500150	8	6	6	6	3	2	2
KPEXXLCP0400500200	8	8	6	6	3	2	2
KPEXXLCP0500600200	12	12	9	9	8	4	2
KPEXXLCP0600450200	12	15	8	8	6	4	2
KPEXXLCP0760500200	24	21	10	18	12	6	4
KPEXXLCP0900600300	32	32	21	21	15	10	6
KPEXXLCP1000500300	27	30	24	24	18	6	6
KPEXXLCP1500800500	75	80	48	52	40	27	21
KPEXXLCP2000800800	105	110	68	72	56	36	27
KPEXXLCP200012001000	105	110	68	72	56	36	27

For Ex marking, Model designation, Electrical rating and List of pre-certified devices refer ANNEX to IECEx KLCS 23.0023X

SPECIFIC CONDITIONS OF USE: YES as shown below:

Refer ANNEX to IECEx KLCS 23.0023X



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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

Inclusion of below changes to pre-certified devices:

1. Enclosure, IECEx KLCS 23.0020U Issue 1-

- Addition of gasket material
- Addition of variant with cover bolts

2. Enclosure, IECEx KLCS 23.0020U Issue 2-

- Model/size KPEXXYYY200012001000 has been added.

3. The pre-certified device, certified vide certificate no. IECEx KLCS 24.0038U Issue 1 has been added

Annex:

[ANNEX to IECEx KLCS 23.0023X Issue 01.pdf](#)



ANNEX to IECEx KLCS 23.0023X, Issue No. 01

Date: 30/05/2025

1. Model Designation: KPE XX LCP XXXX XXXX XXXX

- KPE: KleeV Product
- XX : MATERIAL GRADE
 - 01 = ASTM A240 Gr. 304
 - 02 = ASTM A240 Gr. 304L
 - 03 = ASTM A240 Gr. 316
 - 04 = ASTM A240 Gr. 316L
 - 05 = EN 10025-2 Gr. S275JR
- LCP : Local Control Panel
- XXXX : HEIGHT (0200 mm to 2000 mm)
- XXX : WIDTH (0150 mm to 1200 mm)
- XXX : DEPTH (0150 mm to 1000 mm)

2. Ex Marking:

For Group II -

Individual components listed in table 3 below have been grouped (four groups-A/B/C/D) based on the types of protection concepts employed to certify them.

Component group	Ex marking	
	Without I.S terminals	With I.S. terminals
A only	Ex eb IIC T* Gb (-35 °C ≤ Ta ≤ +** °C)	Ex eb ia IIC T* Gb (-35 °C ≤ Ta ≤ +** °C)
A and B	Ex db eb IIC T* Gb (-35 °C ≤ Ta ≤ +** °C)	Ex db eb ia IIC T* Gb (-35 °C ≤ Ta ≤ +** °C)
B Only		
C Only	Ex eb mb IIC T* Gb (-35 °C ≤ Ta ≤ +** °C)	Ex eb ia mb IIC T* Gb (-35 °C ≤ Ta ≤ +** °C)
C and A		
C and B	Ex db eb mb IIC T* Gb (-35 °C ≤ Ta ≤ +** °C)	Ex db eb ia mb IIC T* Gb (-35 °C ≤ Ta ≤ +** °C)
A, B and C		
D and A	Ex ec IIC T* Gc (-35 °C ≤ Ta ≤ +** °C)	Ex ec ia IIC T* Gc (-35 °C ≤ Ta ≤ +** °C)
D, A and B	Ex db ec IIC T* Gc (-35 °C ≤ Ta ≤ +** °C)	Ex db ec ia IIC T* Gc (-35 °C ≤ Ta ≤ +** °C)
D and B		
D and C	Ex ec mb IIC T* Gc (-35 °C ≤ Ta ≤ +** °C)	Ex ec ia mb IIC T* Gc (-35 °C ≤ Ta ≤ +** °C)
D, C and A		
D, B and C	Ex db ec mb IIC T* Gc (-35 °C ≤ Ta ≤ +** °C)	Ex db ec ia mb IIC T* Gc (-35 °C ≤ Ta ≤ +** °C)
D, A, B and C		

*/** for relation between temperature class, upper ambient temperature and power dissipation refer table 2

For Group III

Ex tb IIIC T*Db IP66 (-35 °C ≤ Ta ≤ +** °C)

** Upper Ambient temperature and temperature class are depending upon the application, see Table 1 in the Certificate Schedule.

3. Electrical Rating, Ambient Temperature and Temperature class:

Table 1: The maximum permitted power dissipation within each Local Control Panel is as follows:

Type/Model	Maximum Dissipated Power (Watts)				
	T6/T85°C	T5/ T100°C	T4/T135°C	T4/T135°C	T3/T200°C
	Amb -35°C +40°C	Amb -35°C +50°C	Amb -35°C +70°C	Amb -35°C +45°C	Amb -35°C +50°C
KPEXXLCP0200150150		8.1			20.6
KPEXXLCP0260260150		14.5			31.5
KPEXXLCP0260260200		15.8			34.5
KPEXXLCP0300200150		17.0			37.5
KPEXXLCP0300200200		18.1			41.8
KPEXXLCP0380380150		20.1			49.4
KPEXXLCP0380380200		22.1			57.0
KPEXXLCP0400500150		24.6			64.2



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Type/Model	Maximum Dissipated Power (Watts)				
	T6/T85°C	T5/ T100°C	T4/T135°C	T4/T135°C	T3/T200°C
	Amb -35°C +40°C	Amb -35°C +50°C	Amb -35°C +70°C	Amb -35°C +45°C	Amb -35°C +50°C
KPEXXLCP0400500200	27.3			74.3	
KPEXXLCP0500600200	30.0			84.3	
KPEXXLCP0600450200	32.8			94.35	
KPEXXLCP0760500200	35.5			104.4	
KPEXXLCP0900600300	38.2			112.8	
KPEXXLCP1000500300	40.9			121.2	
KPEXXLCP1500800500	43.6			131.6	
KPEXXLCP2000800800	46.2			142	
KPEXXLCP200012001000	46.2			142	

Table 1 represent the standard sizes of Enclosure with Terminal blocks and the maximum power dissipation for each size. If non-standard size enclosures are produced that fall between the sizes listed in table 1, the maximum power dissipation of the next smaller standard size is to be applied. If non-standard size enclosures are produced that are larger than the largest size in the tables, up to the maximum size of enclosure allowed by the associated enclosure component certification (IECEx KLCS 23.0020U Issue 2), the maximum power dissipation of the largest standard size in the table will be applied. Non-standard size enclosures smaller than the smallest standard size in the table are not covered by this certification

4. List of the pre-certified devices used:

Table 2: IECEx certified devices For Group II application

No.	Component	Make	IECEX Certificate No.	Type	Ex Code	IECEX Standards	Temperature Range	Component Group
1	Terminal Blocks	PHOENIX CONTACT GmbH & Co.	IECEX KEM 06.0027U Issue 10	UT 2.5, UT 4, UT 4-MTD, UT 6, UT10, UT 10 SL, UT 16, UT 35, UT 35 IB, Protective Conductor terminal blocks UT 2.5-PE, UT 4-PE, UT 4 MTD-PE, UT 4-MTD-PE/S, UT 6-PE, UT 10-PE, UT 16-PE, UT 35-PE, UT 35-PE IB and Pick-off Terminal Blocks AGK 4 - UT 10, AGK 4-UT 16, AGK 4-UT 35	Ex eb IIC Gb	IEC 60079-0:2017 IEC 60079-7:2017	-60°C to +110°C	A
2	Terminal Blocks	PHOENIX CONTACT GmbH & Co.	IECEX KEM 06.0030U Issue 06	UKH 150, UKH 240	Ex eb IIC Gb	IEC 60079-0:2017 IEC 60079-7:2017	-60°C to +110°C	A
3	Terminal Blocks	PHOENIX CONTACT GmbH & Co.	IECEX KEM 06.0034U Issue 7	UK 1.5 N, UK 3 N, UK 5 N , UK 6 N	Ex eb IIC Gb	IEC 60079-0:2017 IEC 60079-7:2017	-60°C to +110°C	A
4	Terminal Blocks	PHOENIX CONTACT GmbH & Co.	IECEX KEM 06.0029U Issue 8	UK 10 N, UK 16 N, UK 35, UK 35-IB, UKH 50, UKH 50-IB and UKH 95 and Pick-off Terminal Blocks Types AGK 10-UKH 50, AGK 10-UKH 95 and AGK 10-UKH 150/240	Ex eb IIC Gb	IEC 60079-0:2017 IEC 60079-7:2017	-60°C to +110°C	A
5	Terminal Blocks	PHOENIX CONTACT GmbH & Co.	IECEX SEV 12.0008U Issue 4	UKH 70	Ex eb IIC Gb	IEC 60079-0:2017 IEC 60079-7:2017	-60°C to +110°C	A
6	Terminal Blocks	PHOENIX CONTACT GmbH & Co.	IECEX SEV 13.0012U Issue 4	MUT2.5, MUT2.5PE, MUT 2.5 BU,MUT4, MUT4-PE, MUT 4 BU	Ex eb IIC Gb	IEC 60079-0:2017 IEC 60079-7:2015	-60°C to +110°C	A
7	Terminal Blocks	PHOENIX CONTACT GmbH & Co.	IECEX KEM 06.0051U Issue 10	-QUATTRO and STTB 2.5(-PV) and: ST 2.5-PE, ST 2.5-TWIN-PE, ST 2.5-QUATTRO-PE and STTB 2.5PE	Ex eb IIC Gb	IEC 60079-0:2017 IEC 60079-7:2017	-60°C to +110°C	A
8	Terminal Blocks	PHOENIX CONTACT GmbH & Co.	IECEX KEM 06.0050U Issue 8	ST 4, ST 4-TWIN, ST 4-QUATTRO, STTB 4(-PV), ST 6 and ST 6-TWIN and ST 4-PE, ST 4-TWIN-PE, ST 4-QUATTRO-PE, STTB 4-PE, ST 6-PE and ST 6-TWIN-PE	Ex eb IIC Gb	IEC 60079-0:2017 IEC 60079-7:2017	-60°C to +110°C	A



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No.	Component	Make	IECEx Certificate No.	Type	Ex Code	IECEx Standards	Temperature Range	Component Group
9	Terminal Blocks	PHOENIX CONTACT GmbH & Co.	IECEx KEM 06.0033U Issue 9	ST 10, ST 16 and ST 35	Ex eb IIC Gb	IEC 60079-0:2017 IEC 60079-7:2017	-60°C to +110°C	A
10	Terminal Blocks	PHOENIX CONTACT GmbH & Co.	IECEx PTB 10.0021U Issue 7	PT 2.5, PT 2.5-TWIN, PT 2.5-QUATTRO, PTTB 2.5 and PTTB 2.5(-PV) and PT 2.5-PE, PT 2.5-TWIN-PE, PT 2.5-QUATTRO-PE and PTTB 2.5PE	Ex eb IIC Gb	IEC 60079-0:2017 IEC 60079-7:2017	-60°C to +110°C	A
11	Terminal Blocks	PHOENIX CONTACT GmbH & Co.	IECEx PTB 10.0046U Issue 5	PT 4, PT 4-TWIN, PT 4-QUATTRO, PTTB 4 and PTTB 4(-PV) and PT 4-PE, PT 4-TWIN-PE, PT 4-QUATTRO-PE and PTTB 4PE	Ex eb IIC Gb	IEC 60079-0:2017 IEC 60079-7:2017	-60°C to +110°C	A
12	Terminal Blocks	PHOENIX CONTACT GmbH & Co.	IECEx SEV 13.0005U Issue 8	PT 6, PT 6-TWIN, PT 6-QUATTRO: PT 6-PE, PT 6-TWIN-PE, PT 6-QUATTRO-PE	Ex eb IIC Gb	IEC 60079-0:2017 IEC 60079-7:2017	-60°C to +110°C	A
13	Terminal Blocks	PHOENIX CONTACT GmbH & Co.	IECEx SEV 13.0003U Issue 5	RBO 8, RBO 10, RBO 12, RBO 16	Ex eb IIC Gb	IEC 60079-0:2017 IEC 60079-7:2017	-60°C to +110°C	A
14	Terminal Blocks	Weidmüller Interface GmbH & Co. KG	IECEx ULD 14.0005U Issue 8	WDU*, WPE* and ZQV*, WQV*, WAP*, WEW*, WTW*, LS 2.8	Ex eb IIC Gb	IEC 60079-0:2017 IEC 60079-7:2017	-60°C to +110°C	A
15	Terminal Blocks	Weidmüller Interface GmbH & Co. KG	IECEx ULD 15.0008U Issue 4	ZDU*, ZPE* and ZQV*, ZAP*, WEW*, ZEWA*	Ex eb IIC Gb	IEC 60079-0:2017 IEC 60079-7:2017	-60°C to +110°C	A
16	Terminal Blocks	Weidmüller Interface GmbH & Co. KG	IECEx ULD 13.0005U Issue 1	WFF* with s WTW, WEW, WQL, WZAF	Ex eb IIC Gb	IEC 60079-0:2017 IEC 60079-7:2017	-60°C to +100°C	A
17	Terminal Blocks	Weidmüller Interface GmbH & Co. KG	IECEx KEM 06.0013U Issue 8	SH* and WEW*/* with ZB*	Ex eb IIC Gb	IEC 60079-0:2017 IEC 60079-7:2017	-60°C to +110°C	A
18	Terminal Blocks	PHOENIX CONTACT GmbH & Co.	IECEx SIR 20.0046U	UT 2.5-QUATTRO; UT 2.5-TWIN; UT 4-QUATTRO; UT 4 TWIN; UTTB 2.5; UTTB 2.5-PV; UTTB 4 and UTTB 4-PV and; UT 2.5-QUATTRO-PE; UT 2.5-TWIN-PE; UT 4-QUATTRO-PE; UT 4-TWIN-PE; UTTB 2.5-PE and UTTB 4-PE	Ex eb IIC Gb	IEC 60079-0:2017 IEC 60079-7:2017	-60°C to +110°C	A
19	Terminal Blocks	Connectwell Industries Pvt. Ltd.	IECEx SIR 20.0046U Issue 4	Screw type Feedthrough, Spring type feedthrough models, Terminal blocks having I/P Screw Type Feed through and O/P Spring type Feed through, Screw Type Ground Terminals, Spring Type Ground Terminals, Screw Type Disconnecting Terminals,	Ex eb IIC Gb	IEC 60079-0:2017 IEC 60079-7:2017	-60°C to +110°C	A
20	Terminal Blocks	Connectwell Industries Pvt. Ltd.	IECEx SIR 20.0046U Issue 4	Spring type disconnecting Terminals, Spring type fuse Terminals, Screw type fuse Terminals,	Ex ec IIC Gb	IEC 60079-0:2017 IEC 60079-7:2017	-60°C to +110°C	D
21	Terminal Blocks with Optional Fuse Holders	PHOENIX CONTACT GmbH & Co.	IECEx KEM 10.0054U Issue 3	UK 10-DREHSI-EX (5 x 20), UK 10-DREHSI-EX (6.3 x 32), DT 6/2.5-DREHSI-EX (5 x 20)	Ex nA IIC Gc	IEC 60079-0:2017 IEC 60079-15:2010	-50 °C to +125 °C	D
22	Terminal Blocks	Weidmüller Interface GmbH & Co. KG	IECEx UL 14.0097U Issue 3	WMF, WSI, WTR- Fuse and knife disconnect terminals and accessories	Ex nA IIC Gc	IEC 60079-0:2011 IEC 60079-15:2010	-60°C. to 120 °C	D
23	Enclosure	KLEEV	IECEx KLCS 23.0020U Issue 2	KPE XX YYY...Series	Ex eb IIC Gb Ex tb IIIC Db IP 66	IEC 60079-0:2017 IEC 60079-7:2017 IEC 60079-31:2022	-35°C to +160°C	A
24	Lamps	CZ Electric Co., Ltd	IECEx CML 19.0052U Issue 2	CZ0202 Series Explosion-proof Signal Lamp Modules	Ex db eb IIC Gb and IP 54	IEC 60079-0 : 2017 IEC 60079-7 : 2017	Ts= -40°C to +90°C (types CZ0202-...L) Ts= -55°C to +90°C (types CZ0202-...H)	B
25	Switch Module	CZ Electric Co., Ltd	IECEx CML 19.0053U Issue 1	CZ0201 Series Explosion-proof Switch Module	Ex db eb IIC Gb and IP 54	IEC 60079-0 : 2017 IEC 60079-7 : 2017	Ts= -40°C to +90°C	B



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No.	Component	Make	IECEx Certificate No.	Type	Ex Code	IECEx Standards	Temperature Range	Component Group
26	Operator Head (External Part)	CZ Electric Co., Ltd	IECEx CQM 15.0035U, Issue 1	CZ4000-□□□□□□	Ex eb IIC Gb Ex tb IIIC Db and IP 66	IEC 60079-0 : 2017 IEC 60079-7 : 2017 IEC 60079-31:2013	Ts= -55°C to +65°C	A
27	Operator Head (External Part)	CZ Electric Co., Ltd	IECEx CML 19.0056U Issue 1	CZ4000 Series Explosion-proof Operator Heads	Ex eb IIC Gb Ex tb IIIC Db and IP 66	IEC 60079-0 : 2017 IEC 60079-7 : 2017 IEC 60079-31:2013	Ts= -55°C to +65°C	A
28	Voltmeter & Ammeter	CZ Electric Co., Ltd	IECEx CML 19.0136U Issue 1	CZ0205 Series Explosion-proof Voltmeter and Ammeter Modules	Ex eb mb IIC Gb and IP 54 (CZ0205-□mA/□Ammeter, CZ0205-□V/□ Voltmeter) Ex eb IIC Gb (CZ0205-□A/□Ammeter)	IEC 60079-0:2017 IEC 60079-7:2017	Ts: -40°C to +95°C	C
29	Push button	BARTEC GmbH	IECEx CML 17.0046U Issue 2	Illuminated Indicator Module Type 07-335*-*/*/*/* & Illuminated Push Button Module Type 07-336*-*/*/*/*	Ex db eb IIC Gb and IP 54	IEC 60079-0 : 2017 IEC 60079-7 : 2017	-55°C ≤ Ts ≤ +85°C	B
30	Switch Module	Bartec GmbH	IECEx CML 17.0045U Issue 3	Control Switch Type 07-333*-*/*/*/*, Switch Module Type 07-332*-*/*/*/* and Type 07-3382*-*/*/*/*, Switch Module, 4-pole Type 07-3381*-*/*/*/*	Ex db eb IIC Gb and IP 54	IEC 60079-0 : 2017 IEC 60079-7 : 2017	-55°C ≤ Ts ≤ +85°C	B
31	Contacts	BARTEC GmbH	IECEx CML 14.0005U Issue 2	Control and signalling device adapters, Type 05-0003-00*/*/*/*	Ex eb IIC Gb Ex tb IIIC Db and IP 66	IEC 60079-0 : 2017 IEC 60079-7 : 2017 IEC 60079-31:2013	Ts=-55°C to +70°C	A
32	Lamps	R. STAHL Schaltgeräte GmbH	IECEx PTB 06.0016U Issue 1	Indicating Lamp type 8010/*-*/*	Ex d e IIC Gb and IP 54	IEC 60079-0 : 2011 IEC 60079-7 : 2006	Ts=-60 °C to +80 °C	B
33	Actuator	R. STAHL Schaltgeräte GmbH	IECEx PTB 13.0047U Issue 5	Actuator attachment type 8602*3-*/*-*/*-*/*	Ex eb IIC Gb and Ex tb IIIC Db and IP 66	IEC 60079-0 : 2017 IEC 60079-7 : 2017 IEC 60079-31:2013	-60 °C ≤ To ≤ +70 °C	A
34	Contacts	R. STAHL Schaltgeräte GmbH	IECEx PTB 17.0037U Issue 2	Contact element type 8082/3-*/*-*/*	Ex db eb IIC Gb and IP 54	IEC 60079-0 : 2017 IEC 60079-7 : 2017	Ts= -60 °C ≤ Ts ≤ +100 °C	B
35	Lamps	R. STAHL Schaltgeräte GmbH	IECEx PTB 17.0022U Issue 3	Indicating lamp Typ 8010/6-*/*-*/*	Ex db eb IIC Gb and IP 54	IEC 60079-0:2017 IEC 60079-7:2017	-60 °C ≤ TS ≤ +100 °C	B
36	Lamps	FCG FLAMEPROOF CONTROL GEARS PVT LIMITED	IECEx KLCS 22.0018U Issue 0	Control and Signalling Accessories, Ex-PB0201C-... Series	Ex db eb IIC Gb Ex tb IIIC Db IP66	IEC 60079-0:2017 IEC 60079-7:2017 IEC 60079-31:2013	-35°C to +100°C	B
37	Emergency Push button, Selector Switch	Rockwell Automation -Allen Bradley	IECEx CML 14.0014U Issue 2	Type 800G-*/*/*-EX Operators Momentary push button Emergency stop push-pull Selector switch Key release push button Key release mushroom Pilot light Momentary push button Selector switch, key operated Double push button Hole plug Momentary push button	Ex eb IIC Gb Ex tb IIIC Db and IP 66	IEC 60079-0:2017 IEC 60079-7:2017 IEC 60079-31:2013	-55°C to +70°C	A
38	Contacts	Rockwell Automation -Allen Bradley	IECEx CML 17.0047U Issue 2	Contact Block 800G-X*/*-EX	Ex db eb IIC Gb and IP 54	IEC 60079-0:2017 IEC 60079-7:2017	Ts = -55°C ≤ Ts ≤ +85°C	B
39	Switch Handle	CZ Electric Co., Ltd	IECEx CML 17.0042U Issue 2	CZ8000-8003 CZ8000-8029	Ex eb IIC Gb Ex tb IIIC Db IP66	IEC 60079-0:2017 IEC 60079-7:2017 IEC 60079-31:2013	-55°C to +80°C	A
40	Lamps	MAM	IECEx NEP 23.0002U Issue 0	M010 1Series	Ex db eb IIC Gb IP 66	IEC 60079-0:2017 IEC 60079-1:2014 IEC 60079-7:2017	-60°C to +80°C	B
41	Modules	MAM	IECEx NEP 23.0002U Issue 0	M0301 Series	Ex db eb IIC Gb IP 66	IEC 60079-0:2017 IEC 60079-1:2014 IEC 60079-7:2017	-60°C to +80°C	B
42	Lamps, Switching Module	FCG	IECEx KLCS 24.0038U Issue 2	Ex-PB201C-... Series	Ex db eb IIC Gb Ex tb IIIC Db IP 66	IEC 60079-0:2017 IEC 60079-1:2014 IEC 60079-31:2022 IEC 60079-7:2017	-35 °C to +100 °C	B



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For Group III application

No.	Component	Make	IECEX Certificate No.	Type	Ex Code	IECEX Standards	Temperature Range
1	Enclosure	KLEEV	IECEX KLCS 23.0020U Issue 2	KPE XX YYYY...Series	Ex eb IIC Gb Ex tb IIIC Db IP 66	IEC 60079-0:2017 IEC 60079-7:2017 IEC 60079-31:2022	-35°C to +160°C
2	Operator Head (External Part)	CZ Electric Co., Ltd	IECEX CQM 15.0035U, Issue 1	CZ4000-□□□□□□	Ex eb IIC Gb Ex tb IIIC Db and IP 66	IEC 60079-0: 2017 IEC 60079-7: 2017 IEC 60079-31:2013	Ts= -55°C to +65°C
3	Operator Head (External Part)	CZ Electric Co., Ltd	IECEX CML 19.0056U Issue 1	CZ4000 Series Explosion-proof Operator Heads	Ex eb IIC Gb Ex tb IIIC Db and IP 66	IEC 60079-0: 2017 IEC 60079-7: 2017 IEC 60079-31:2013	Ts= -55°C to +65°C
4	Contacts	BARTEC GmbH	IECEX CML 14.0005U Issue 2	Control and signalling device adapters, Type 05-0003-00**/****	Ex eb IIC Gb Ex tb IIIC Db and IP 66	IEC 60079-0: 2017 IEC 60079-7: 2017 IEC 60079-31:2013	Ts=-55°C to +70°C
5	Actuator	R. STAHL Schaltgeräte GmbH	IECEX PTB 13.0047U Issue 5	Actuator attachment type 8602*3-***_*-***_*-***_*	Ex eb IIC Gb and Ex tb IIIC Db and IP 66	IEC 60079-0: 2017 IEC 60079-7: 2017 IEC 60079-31:2013	-60 °C ≤ To ≤ +70 °C
6	Lamps	FCG FLAMEPROOF CONTROL GEARS PVT LIMITED	IECEX KLCS 22.0018U Issue 0	Control and Signalling Accessories, Ex-PB0201C-... .. Series	Ex db eb IIC Gb Ex tb IIIC Db IP66	IEC 60079-0:2017 IEC 60079-7:2017 IEC 60079-31:2013	-35°C to +100°C
7	Emergency Push button, Selector Switch	Rockwell Automation -Allen Bradley	IECEX CML 14.0014U Issue 2	Type 800G-****-EX Operators Momentary push button Emergency stop push-pull Selector switch Key release push button Key release mushroom Pilot light Momentary push button Selector switch, key operated Double push button Hole plug Momentary push button	Ex eb IIC Gb Ex tb IIIC Db and IP 66	IEC 60079-0:2017 IEC 60079-7:2017 IEC 60079-31:2013	-55°C to +70°C
8	Switch Handle	CZ Electric Co., Ltd	IECEX CML 17.0042U Issue 2	CZ8000-8003 CZ8000-8029	Ex eb IIC Gb Ex tb IIIC Db IP66	IEC 60079-0:2017 IEC 60079-7:2017 IEC 60079-31:2013	-55°C to +80°C
9	Lamps, Switching Module	FCG	IECEX KLCS 24.0038U Issue 1	Ex-PB201C-... .. Series	Ex db eb IIC Gb Ex tb IIIC Db IP 66	IEC 60079-0:2017 IEC 60079-1:2014 IEC 60079-31:2022 IEC 60079-7:2017	-35 °C to +100 °C

5. Specific Conditions of Use:

1. All terminal screws, used and unused, shall be fully tightened down by the end user.
2. Insulation of conductors must extend to within 1mm of the metal of the terminal throat unless specified otherwise on the terminal certificate.
3. No more than one single or multi-stranded lead shall be connected to either side of any terminal unless multiple conductors have been joined in a suitable manner, e.g. two conductors into a single insulated bootlace ferrule, or any method indicated on the terminal certificate.
4. The conductor size should be appropriate to the rated current and terminal size. If terminal blocks are used for a lower current than the terminal is rated for then it is the responsibility of the user to select a conductor with cross-sectional area appropriate to maximum current for the conductor.
5. All terminals, and accessories such as cross-connectors, shall be installed in accordance with the terminal manufactures instructions.
6. Live maintenance of Ex i devices is not permitted.
7. Cable and cable gland temperature should be +80°C
8. For pre-certified Terminal blocks, certified vide IECEx SIR 20.0046U Issue 4,
 - The terminal blocks shall be mounted on either DIN 15, DIN 32 or DIN 35 Rails.
 - All terminal screws and nuts as applicable used shall be tightened down as per the torque values specified in the certificate.
 - For screw clamp / spring clamp / ground terminal blocks: When the device is mounted in a hazardous area, connection and disconnection of the device from the rail while live is only



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permitted if the potentially explosive atmosphere is shown to be absent. This restriction does not apply if the circuit is intrinsically safe.

- For screw and spring disconnecting terminal blocks with hinge operated disconnecting knife: Disconnect terminals shall only be operated when the circuit is electrically isolated. This restriction does not apply if the circuit is intrinsically safe.
- When used in intrinsically safe circuits, the terminals shall not be used for voltages above 60 V peak.
- To avoid the risk of short-circuits between adjacent conductors in terminal blocks, the insulation of each conductor shall be maintained up to the metal of the terminal.
- Proper care shall be taken for stranded wire type of connection in terminal blocks, so that conductors do not get damaged during installation
- For screw clamp / spring clamp / ground terminal blocks: When the device is mounted in a hazardous area, connection and disconnection of the device from the rail while live is only permitted if the potentially explosive atmosphere is shown to be absent. This restriction does not apply if the circuit is intrinsically safe.
- For screw and spring disconnecting terminal blocks with hinge operated disconnecting knife: Disconnect terminals shall only be operated when the circuit is electrically isolated. This restriction does not apply if the circuit is intrinsically safe.
- Installation Instruction document shall be reviewed for additional conditions of use and warnings
- When these terminal blocks are mounted, the minimum creepage and clearance distances with neighbouring terminal blocks and between the current bar & DIN-Rail shall be maintained as per the table below: -

Voltage (V)	Creepage (mm)	Clearance (mm)
630	12	10
500	10	8
400	8	6
320	6.3	6

9. For pre-certified Ammeter/Voltmeter, certified vide IECEx CML 19.0136U Issue 1
 - The tightening torque of the wiring bolt is 1.2 Nm and the tightening torque of the EXM ammeter frame is 1.1 Nm.
10. For pre-certified Control and Signalling Accessories, certified vide IECEx KLCS 22.0018U Issue 0
 - The signal lamp must be used with a protecting cap (actuator) certified for the intended use.
 - For the models with screw terminals, terminal connections are suitable for 0.5 to 2.5mm² with a tightening torque of 1.1 Nm. Only one conductor can be terminated in each terminal.
 - User must ensure that not more than 5mm of conductor length should be stripped while terminating in the terminals. Bare conductor should not be visible outside the terminal slot.
 - The LED indicating lamps are suitable for low risk of mechanical danger, i.e., 2 joules.
 - The manufacturer has maintained a larger flame path length and more stringent gap than required by the standard. The user must refer to manufacturer before carrying out any repairs or refurbishment to the equipment. The gaps declared by the equipment manufacturer must never be exceeded.
11. For pre-certified, Lamp, certified vide IECEx CML 19.0052U Issue 1
 - The dimensions of the flameproof joints differ from those of EN/IEC 60079-1 Table 2 and therefore shall not be repaired.
12. For pre-certified, Switch Module, certified vide IECEx CML 19.0053U Issue 1
 - The dimensions of the flameproof joints differ from those of EN/IEC 60079-1 Table 2 and therefore shall not be repaired.
13. For pre-certified Fuse terminal block, certified vide IECEx KEM 10.0054U Issue 3
 - When assembling with other certified series and sizes and using the associated accessories, the required creepage distances and clearances have to be observed.



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14. For pre-certified, Operator head, certified vide IECEx CML 19.0056U Issue 1
 - The CZ4000-M□ Calotte (glass window) and CZ4000-4019 safety latches presents a potential electrostatic hazard and as such shall be fitted to fixed installations only. They shall only be cleaned with a damp cloth.
 - The non-light transmitting units shall only be installed in low impact risk areas.
 - The devices shall only be cleaned with a damp cloth and site away from any static charging methods.
 - The components may be operated in an intrinsically safe or a non-intrinsically safe operation mode. The operation mode is specified in line with the specification of the product by the end user during installation. When the operation mode or the corresponding marking have been selected, these shall be permanent and shall not be changed during the entire life of the component.
15. For pre-certified devices, contact, vide IECEx PTB 17.0037U Issue 2
 - The connecting cables of the contact element type 8082/3-**-**-** shall be fixed and routed so that it will be adequately protected against mechanical damage.
16. For pre-certified devices, Lamp, vide IECEx PTB 17.0022U Issue 3
 - The connecting cables of the contact element type 8082/3-**-**-**-** shall be fixed and routed so that it will be adequately protected against mechanical damage.
17. For pre-certified devices, Lamp, vide IECEx NEP 23.0002U Issue 0
 - The flameproof joints are not intended to be repaired.
 - The expected life duration for the shaft is no more than 100k operations.
18. For pre-certified devices, Lamps, Switching Module, vide IECEx KLCS 24.0038U Issue 1
 - For the models with screw terminals, terminal connections are suitable for 0.5 to 2.5mm² with a tightening torque of 1.1 Nm.
 - User must ensure that not more than 5mm of conductor length should be stripped while terminating in the terminals. Bare conductor should not be visible outside the terminal slot.
 - Only one conductor can be terminated in each terminal.
 - The LED indicating lamps are suitable for low risk of mechanical danger, i.e., 2 joules.
 - The manufacturer has maintained a larger flame path length and more stringent gap than required by the standard. The user must refer to manufacturer before carrying out any repairs or refurbishment to the equipment. The gaps declared by the equipment manufacturer must never be exceeded.
19. For Group III application:
 - Dust layers shall be prevented from building up on the outside surface of the enclosure and the enclosure shall be routinely cleaned.

END OF DOCUMENT