



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

Ex COMPONENT CERTIFICATE

Certificate No.: **IECEX ITS 23.0007U** Page 1 of 3 [Certificate history:](#)

Status: **Current** Issue No: 0

Date of Issue: 2023-09-11

Applicant: **RITTAL Private Limited**
No. 23 & 24, KIADB Industrial Area, Veerapura, Doddaballapur - 561203
District - Bangalore, Karnataka
India

Ex Component: Increased Safety Empty Enclosures

This component is NOT intended to be used alone and requires additional consideration when incorporated into other equipment or systems for use in explosive atmospheres (refer to IEC 60079-0).

Type of Protection: **Increased Safety and Dust Protection by enclosure**

Marking: Ex eb IIC Gb

Ex tb IIIC Db

IP66

IECEX ITS 23.0007U

Approved for issue on behalf of the IECEx
Certification Body:

Mark Newman

Position:

Certificate Officer

Signature:
(for printed version)

Date:
(for printed version)

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Certificate issued by:

Intertek Testing & Certification Limited
ITS House, Cleeve Road
Leatherhead
Surrey, KT22 7SA
United Kingdom

intertek



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Manufacturing locations: **RITTAL Private Limited**
No. 23 & 24, KIADB Industrial Area,
Veerapura, Doddaballapur - 561203
District - Bangalore, Karnataka
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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 component 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 60079-31:2022](#) 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 component listed has successfully met the examination and test requirements as recorded in:

Test Report:

[GB/ITS/ExTR22.0016/00](#)

Quality Assessment Report:

[DE/PTB/QAR09.0006/08](#)



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Ex Component(s) covered by this certificate is described below:

The type Ex Large and Ex Small range of component enclosures are manufactured in stainless steel SS 304/SS 316L which may optionally also be painted.

See Annex for detailed description.

SCHEDULE OF LIMITATIONS:

1. The service temperature range is -50°C to +180°C.
2. Installation of electrical components inside the empty enclosures requires a further assessment by an ExCB. Creepage and Clearance distances shall comply with the requirements of IEC 60079-7.
3. Enclosure backside cover and earthing screws need to be tightened with a suitable torque w.r.t to Bolt size.
4. All unused entry openings must be fitted with a suitable cable entry device of protection types Ex "eb" and Ex "tb" and must have a minimum IP66 rating.
5. Entry holes shall be perpendicular to the equipment face to ensure the correct sealing arrangement of an accessory. Plain holes shall be no larger than 0.7mm above the major diameter of the accessory thread.
6. Enclosure may pose risk of electrostatic discharge for dust atmosphere, hence clean with damp cloth only.

Annex:

[SFT IECEx OP 19f Annex for IECEx Certificate of Conformity_1.pdf](#)

Certificate No:	IECEx ITS 23.0007U	Issue No. 0
Annex No. 0		

Technical Documents				
Title:	Drawing No.:	Rev. Level:	Date:	
Ex Large Enclosure GA (5 sheets)	N131348	00	17.03.2023	
Ex Small Enclosure GA (5 sheets)	N131300	00	17.03.2023	
Instruction Manual – Ex Large Enclosure (10 sheets)	RIPM/04	00	0523	
Instruction Manual – Ex Small Enclosure (9 sheets)	RIPM/05	00	0523	

DESCRIPTION OF THE EQUIPMENT OR PROTECTIVE SYSTEM

The type Ex Large range of component enclosures are manufactured in stainless steel SS 304/SS 316 L which may optionally also be painted. The enclosures consist of a profile with Top cover, Bottom cover, Rear panels and Side panels fixed on to frame, a hinged door at front and rear (optional) with a latching mechanism and also gland plates may be provided (optional) at bottom and side of the enclosure. The enclosures may be manufactured in sizes between 600Wx1600Hx400D mm to 1000Wx2200Hx1000D

SL NO.	ARTICLE NO. FOR 2mm THICKNESS	ARTICLE NO. FOR 1.5mm THICKNESS	ENCLOSURE SIZE WXHD	WIDTH INCLUDING SIDE PANEL ±3mm	HEIGHT OF THE PANEL ±3mm	DEPTH INCLUDING REAR PANEL ±3mm	DISTANCE B/W LOCK CENTER & HINGE.	REAR PANEL FIXING PITCH ±3mm			SIDE PANEL FIXING PITCH ±3mm	REAR PANEL HOR. FIXING PITCH ±4mm	SIDE PANEL HOR. FIXING PITCH ±4mm	WIDTHWISE FIXING DISTANCE FOR TOP&BOTTOM COVER ±4mm	DEPTHWISE FIXING DISTANCE FOR TOP&BOTTOM COVER ±4mm	MTG PLATE WIDTH & HEIGHT ±3mm	
				W	H	D	A&S	T1	T2	U	K	C	L	M	N	P	Q
1	9792111	9792131	600X1600X600	609	1608	609	250	237.5	237.5	225	312.5	0	0	0	0	499	1496
2	9792112	9792132	600X1800X400	609	1808	409	300	262.5	262.5	275	362.5	0	0	0	0	499	1696
3	9792113	9792133	600X1800X600	609	1808	609	300	262.5	262.5	275	362.5	0	0	0	0	499	1696
4	9792115	9792135	800X1800X600	809	1808	609	300	262.5	262.5	275	362.5	196	0	198	0	699	1696
5	9792114	9792134	600X2000X600	609	2008	609	350	287.5	312.5	300	412.5	0	0	0	0	499	1896
6	9792116	9792136	800X2000X600	809	2008	609	350	287.5	312.5	300	412.5	196	0	198	0	699	1896
7	9792117	9792137	800X2000X800	809	2008	809	350	287.5	312.5	300	412.5	196	181	198	198	699	1896
8	9792118	9792138	800X2200X600	809	2208	609	400	337.5	337.5	325	462.5	196	0	198	0	699	2096
9	9792120	9792140	1000X2200X1000	1009	2208	1009	400	337.5	337.5	325	462.5	246	231	248	248	899	2096
10	9792148	9792144	800X900HX600	809	908	609	400	337.5	362.5	0	462.5	246	0	148	0	699	796

The type Ex Small range of component enclosures are manufactured in stainless steel SS 304/SS 316 L which may optionally also be painted. The enclosures consist of a main body, a hinged door at front with a latching mechanism and also gland plates may be provided (optional) at bottom and side of the enclosure.

The enclosures may be manufactured in sizes between 200Wx300Hx150D mm to 1000Wx1600Hx500D

SL NO.	ARTICLE NO. FOR 2mm THICKNESS	ARTICLE NO. FOR 1.5mm THICKNESS	ENCLOSURE SIZE WXHD	WIDTH W	HEIGHT H	DEPTH D	NUMBER OF TOTAL CAM LOCK	DISTANCE B/W LOCK K	NUMBER OF VERTICAL CAM LOCK	HORIZONTAL CAM LOCK DISTANCE L	DISTANCE B/W HINGE G	NUMBER OF TOTAL HINGE	MTG PLATE DETAILS			
													P1	P2	Q1	Q2
1	9792101	9792121	200X300X150	200	300	150	1	0	1	0	181.2	2	139	100	260	235
2	9792102	9792122	400X600X210	400	600	210	2	400	2	0	481.2	2	339	300	560	535
3	9792103	9792123	400X800X300	400	800	300	3	300	3	0	340.6	3	339	300	760	735
4	9792104	9792124	600X600X210	600	600	210	2	400	2	0	481.2	2	539	500	560	535
5	9792105	9792125	600X1200X400	600	1200	400	4	333	4	0	360.4	4	530	490	1155	1130
6	9792106	9792126	800X1200X300	800	1200	300	6	333	4	400	360.4	4	730	690	1155	1130
7	9792107	9792127	800X1400X400	800	1400	400	6	400	4	400	320.3	5	730	690	1355	1330
8	9792108	9792128	800X1400X500	800	1400	500	6	400	4	400	320.3	5	730	690	1355	1330
9	9792110	9792130	1000X1500X500	1000	1500	500	7	325	5	500	345.3	5	930	890	1455	1430

All enclosures detailed above have an internal and external earth facility and the gaskets utilized between the hinged lid and main frame manufactured from silicone. The enclosures provide an ingress protection rating of IP66.