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About B&R Enclosures

Since 1955, B&R Enclosures has built a reputation for excellence in design and production, culminating in our position as Australia's largest enclosure manufacturer and electrical equipment integration specialist.

As an independent, 100% Australian family owned and operated business, we champion the virtues of quality, innovation, service and value. The emphasis on these aspects has sustained B&R's growth leading to Australian manufacturing and distribution facilities in Brisbane. Adelaide and Sydney and internationally in China and Saudi Arabia.

B&R's knowledge, precision, quality and unwavering commitment to creating repeatable solutions for our clients supports our position as preferred manufacturer for many private, government and commercial projects in some of Australia's harshest environments.

B&R champions the virtues of quality, service and value. Combined with our unrivalled industry and application knowledge, we are in a unique position to meet the needs of our clients. The business encompasses four divisions: Industrial, Data ICT, Hazardous Areas and Residential Commercial, Each division focuses on the unique needs of different market seaments.

B&R regularly works with partners to provide integrated solutions for major infrastructure and hazardous projects. These include 'plug and play' switchboard solutions for Rio Tinto's Oyu Tolgoi mine and local control stations for Ichthys on-shore LNG processing plant. Ongoing relationships and collaboration are results of our ability to articulate the customer's problem and combine previous experience and knowledge with compliance to local standards.

Electrical integration usually involves the installation, commissioning and testing of 3rd party components and we are adept at managing the acquisition and storage of technical components through a global supply chain that is structured, customised, agile, repeatable and results-based.

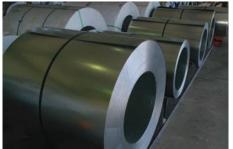
Project management and execution is effectively managed at B&R by the co-location of design, supervision, supply coordination and quality control along with manufacturing. Our incorporation of Industry 4.0 delivers real-time data to our project management teams, built around the requirements of individual projects.

Extensive investment in research and development includes an environmental testing facility focussing on climate control to support cooling solutions for equipment exposed to high ambient temperatures and solar radiation.

When utilised as designed, B&R's enclosures are built to out-perform against expectations.

Contact us today to find out how B&R can deliver reliable and trusted outcomes for your project.













Our Locations



B&R Enclosures have purpose-built manufacturing facilities in three locations across Australia, as well as strategic locations in the Gulf and China.



Australia

Brisbane (QLD)

Global head office, manufacturing, sales and warehousing

Sydney, NSW

Hazardous manufacturing, sales and warehousing

Adelaide, SA

Manufacturing, sales and warehousing

Townsville (QLD), Newcastle (NSW), Melbourne (VIC), Perth (WA) Sales and warehousing

Launceston (TAS), Darwin (NT)
Distribution

New Zealand

Auckland

Sales and warehousing

Saudi Arabia

Dammam

Hazardous manufacturing, sales and warehousing

China

Suzhou

Manufacturing, sales and warehousing

Our Capabilities

Over the years as the company has grown, we have invested significantly in machinery, technology and testing to be able to provide capabilities which our customers benefit from in every order they place. Our current capabilities include:

- Purpose-built Australian facilities in Brisbane (18,000m²), Adelaide (4,000m²) and Sydney (1,874m²), providing local labour and logistics
- · Complete in-house design and engineering services to assist with creating custom solutions
- Dedicated facilities for design, manufacture, wiring and distribution of hazardous area eletrical equipment
- End-to-end manufacturing, from coiled steel raw material to commissioning the end product, we provide efficiency and complete quality control
- Variety of substrates and high quality finishes including stainless steel, powder coated and zinc to suit even the most demanding application
- Modern machinery for any design to be formed and fabricated including automated sheet metal panel benders, punching and shearing centres, electrical equipment integration lines, press brakes, powder coat lines, fabrication cells and assembly lines
- Fully documented process available with full configuration management to support a detailed documentation experience
- · Complete project management including supply chain, warehousing and logistics
- In-house and external testing for hazardous area electrical equipment and impact. IP, type testing. static load, seismic, wind load, salt spray, line inspection, shock, vibration, EMC and MIL-STD
- Continuous improvement with our environmental testing facility for ongoing research and development
- Existing supply agreements with leading OEMs and major raw products distributors supporting loyal and valued relationships climate control and cooling solutions

Our Supply Strategies



Made to Stock

These products are available ex-stock from all our sales & warehousing branches. Contact your local sales representative to discuss requirements.



Assembled-to-Order

These products are assembled to order upon receipt of a customer order. All components required to build an ATO item cannot be sold separately and must form part of a kit. Standard lead time is 4-6 weeks from date of order.



Made to Order

These products are manufactured according to a customer's specification. They are marked in our catalogues as "▲ Available on request" and have a standard lead time of 2-3 weeks.



Engineered-to-Order

These products are a custom designed product that is 100% fit-for-purpose, delivered on-site and ready for installation. Our design & engineering team can customise an enclosure to suit the application requirements. Contact us for more information.

Customisable Project Services



Collaboration

- Convert customer requirements to product build specifications
- · Work to customer delivery schedule
- Initiate procurement or consignment of stock allocations
- Supply of equipment configuration



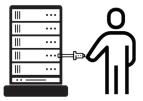


Complete Project Management

- One point of contact
- · Responsive communication channels
- DIFOTIS Delivered In Full On Time In Specification
- Accountability for the delivery of our commitment to customers

Electrical & Equipment Integration

- Wiring and equipment installed to exact requirements
- Management of free issue, consigned and/or B&R sourced components and equipment
- · Stock reporting and job allocation





Testing & Reporting To Customer Specifications

- · Digital reports of product testing and acceptance
- Serialised codes to customer requirements, digital signature, component traceability and unique indentifiers
- Real time quality assurance authorisation, approval and confirmation

Customer Specific Logistics

- Storage and warehouse management
- Site delivery logistics
- Option for removal of product packaging after installation











The B&R Engagement Loop

(Project Services)

In order to engage successfully with our project customer's, B&R representatives follow a structured service plan.

We take our responsibility seriously, and pride ourselves on the collaborative and open relationships we undertake with our project customers. This makes sure we understand and provide value, because our customer's needs vary greatly across the different types of project applications and technical requirements.

- 1. Our first action before we reach out or after a customer had reached out to us. is to INVESTIGATE. This includes researching the customer/ project and any other relevant stakeholders.
- 2. The second action of **UNDERSTAND** is when we speak to the customer at length about their issue and challenges for current and future projects. From these discussions we can begin to see how our product solutions can solve the customer's issues and challenges.

- 3. We take our newly acquired customer knowledge back to our in-house design, engineering and estimating teams for our third action to SCOPE the work, and prepare quotes and drawings as required.
- 4. Once we have created the tailored offer for the customer we process any variations which might be needed before our fourth action of AGREE. With everything signed off we move into manufacturing and equipment integration.
- 5. Once the product solution is ready our fifth action of **DELIVER** takes place. We make sure the goods are shipped to site according to agreed upon timelines.
- 6. To learn from our experience and confirm our service level we take an **EVALUATION** action. This is when we reflect on the job we've completed and depending on the size and extent of the order we will seek customer feedback as well.



Our Customers

























Accreditations & Compliance

At B&R, quality and value are just the beginning. We strive to deliver quality products developed and manufactured by a team dedicated to excellence, backed by standards, approvals and industry accreditations.



Quality
ISO 9001

SAIGLOBAL

ISO 9001:2015

Every B&R Enclosures manufacturing facility is externally audited to ensure that the quality of our products meet the stringent ISO9001 standards. B&R's products are carefully inspected at the end of lines during the manufacturing process to ensure that the enclosures will withstand their intended environment and application.



Environment ISO 14001

SAI GLOBAL

ISO 14001:2015

Sets out the criteria for an environmental management system. It maps out a framework that a company or organisation can follow to set up an effective environmental management system.



ISO 45001:2018

An externally audited
Occupational Health and Safety
Management System.



RoHS

The RoHS directive aims to restrict certain dangerous substances commonly used in electronic and electronic equipment.



Australian Stainless Steel Development Assoc.

ASSDA

The Australian Stainless Steel Development Association provides comprehensive technical information on stainless steel. This includes information for users, equipment manufacturers and stainless steel suppliers.





IEC IECEX

IECEx is the IEC System for Certification to Standards Relating to Equipment for Use in Explosive Atmospheres. It uses quality assessment specifications that are based on International Standards prepared by the International Electrotechnical Commission (IEC).

B&R Hazardous Area products are certified and approved for use in above ground Group II applications.

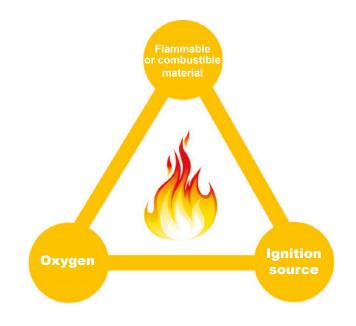
WHAT IS A HAZARDOUS AREA?

A hazardous area is an area where flammable liquids, vapours, gases or combustible dusts are likely to occur in sufficient quantities to cause fire or explosion.

There are three basic conditions that must be satisfied to create a fire or explosion.

- 1. Flammable or combustible material such as flammable liquid, vapour or combustible dust must be present in sufficient quantity and concentration.
- 2. Oxygen
- 3. Ignition source

Hazardous area electrical equipment works by suppressing or separating one or more of these three components to avoid a fire or explosion. Where suppression cannot be done the use of explosion containment Ex d is used.



IGNITION SOURCES

- · Electric arc and sparks
- Flames
- Hot surfaces
- Electrostatic sparks
- Thermite sparks
- Mechanical friction
- Mechanical sparks produced by grinding
- Smouldering deposits
- Compression ignition
- Electromagnetic radiation
- Chemical reactions
- Ultrasonics

SELECTION OF ELECTRICAL EQUIPMENT

There are important pieces of information required when selecting equipment for hazardous areas. These include:

- · Zone classification
- · Gas group
- · Temperature or 'T' Rating
- IP Rating
- Application

IEC STANDARDS & CERTIFICATIONS

IECEx is an internationally recognised scheme for the certification of hazardous area electrical equipment. The IECEx system is designed to facilitate international trade in equipment and services for use in hazardous areas, whilst maintaining the required level of safety.





TYPICAL HAZARDOUS AREA INDUSTRIES:

Gases and Vapours

- Oil refineries & chemical plants
- Offshore drilling rigs
- Spray booths
- Sewerage treatment plants
- Oxygen and acetylene
- Aircraft hangers
- LNG plants
- Wharves for petroleum & LNG vessels
- · Paint manufacturers
- Distilling
- · Laboratories & fume cupboards

- Food manufacturing
- · Grain handling & storage
- · Chemicals / fertiliser
- Plastics
- Wood / pulp / paper
- · Milk powder
- Flour mills
- Pharmaceuticals
- · Metal processing
- · Recycling operations
- · Fibreglass manufacturing
- Explosive factories

Zone classifications



ZONE CLASSIFICATIONS

Equipment that is used in hazardous areas is classified into zones, depending on the potential of an explosion under normal operating conditions. The table below is a guide to zone classification of hazardous areas. B&R Enclosures do not classify areas for customers, it is the responsibility of the installer or end user to know which zone their area falls within.

It is recommended a qualified person is engaged to complete a risk analysis and classify the area in accordance with standard IEC 60079-14.

The hazardous areas are classified in the table below according to IEC 60079-10-1 and IEC 61241-10-2. The IEC Standard is the international standard and local standard must be used where applicable.

Gases	and	Vapours
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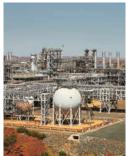
Zone 0 Ga	An area in which an explosive gasair mixture is continuously present or present for long periods.
Zone 1 Gb	Area in which an explosive gas-air mixture is likely to occur for short periods in normal operation.
Zone 2 Gc	Area in which an explosive gas-air mixture is not likely to occur and if it occurs it will only exist for a very short time due to an abnormal condition.

Dust	
Zone 20 Da	An area in which an explosive dustair mixture is continuously present or present for long periods.
Zone 21 Db	Combustible or conductive dusts are present. and is likely to occur for short periods in normal operation.
Zone 22 Dc	Area in which an explosive dust mixture is not likely to occur and if it occurs it will only exist for a very short time due to an abnormal condition.









Gas groups, temperature ratings and dust

GAS GROUPS

Electrical apparatus for use in areas with flammable gases and vapours are divided into groups:

Group I	Underground coal mining applications.
Group II	Industries other than underground coal mining.
Group III	Industries having combustible dust or fibres.

Group II is subdivided into 3 group groups based on their explosive properties (see table below).

Groups	Example Types
Group I	Methane
Group IIA	Propane
Group IIB	Ethylene
Group IIC	Hydrogen, Acetylene, Carbon Disulphide

TEMPERATURE OR 'T' RATING

Hot surfaces are a potential ignition source in hazardous applications. Hazardous materials will have different minimum temperatures at which ignition becomes a danger.

Electrical equipment for hazardous areas is tested and allocated a 'T Rating' based on the maximum temperature of the equipment.

The 'T Rating' must always have a lower maximum temperature than the ignition temperature of the gas group present. Temperatures are either measured internally or externally depending on protection.

T Rating	Maximum Temperature
T1	450°C
T2	300°C
Т3	200°C
T4	135°C
T5	100°C
Т6	85°C

Examples of ignition temperatures and 'T' ratings for gases.

Example Gas	Ignition Temperature	T Rating
Methane	580°C	T1
Hydrogen	500°C	T1
Kerosene	295°C	T3
Petroleum	400°C	T2
Carbon Disulphide	95°C	T6
Diethyl Ether	160°C	T4
Ethyl Nitrite	95°C	T6
Hydrogen Sulphide	270°C	T3

COMBUSTIBLE DUST

Dust fibres or flyings, which are combustible or ignitable when mixed with air are known as combustible dusts. Dust explosions may be initiated by ignition of a cloud of dust. It is not unusual for an explosion, which starts from the ignition of a dust layer, to cause the dislodging of dust accumulated on various surfaces, which then leads to a chain reaction dust cloud explosion.

Characteristics of some common combustible dusts are:

	Ignition temperature					
Material	Cloud, °C	Layer, °C				
Coal Dust	380	225				
Polythene	420	(melts)				
Methyl Cellulose	420	320				
Starch	460	435				
Flour	490	340				
Sugar	490	460				
Grain Dust	510	300				
Phenolic Resin	530	>450				
Aluminium	590	>450				
PVC	700	>450				
Soot	810	570				

NOTE: The data given in this table is derived from AS 2430.2:1986 (superseded by AS/ NZS 61241.3 which is superseded by AS/NZS 61241.10)

Types of protection for electrical equipment



TYPE OF EXPLOSION PROTECTION FOR ELECTRICAL EQUIPMENT

Type of Protection	Description	Standard	Zone
Flameproof enclosure Ex d	Containment – explosion within an enclosure will not be propogated outside the enclosure.	IEC 60079-1	Zone 1 & 2
Pressurised enclosure Ex p	Enclosure in a protective gas is maintained at a pressure greater than that of the external atmosphere.	IEC 60079-2	Zone 1 & 2
Powder Filling Ex q	Mounting of potentially incendive components in an enclosure filled with quartz or solid glass particles.	IEC 60079-5	Zone 1 & 2
Oil Immersion Ex o	Equipment or parts are immersed in protective liquid such as oil. The protective liquid acts as an insulating medium.	IEC 60079-6	Zone 1 & 2
Increased safety Ex e	Non sparking components are designed to substantially reduce the likelihood of the occurrence of fault conditions which could cause ignition.	IEC 60079-7	Zone 1 & 2
Intrinsic safety Ex i	The potential spark energy of a circuit is reduced to below the amount required for ignition.	IEC 60079-11	Zone 0, 1 & 2
Non-sparking Ex n	Electrical apparatus in normal operating conditions and in certain specified abnormal conditions, that is not capable of igniting a surrounding explosive gas atmosphere.	IEC 60079-15	Zone 2
Encapsulation Ex m	Parts that are capable of igniting an explosive atmosphere by either sparking or heating, are enclosed in a compound so that the explosive atmosphere cannot be ignited under operating or installation conditions.	IEC 60079-18	Zone 0, 1 & 2
Dust protection by enclosure Ex t	Electrical equipment is protected by the enclosure and surface temperature limitation for use in explosive and dust atmospheres.	IEC 60079-31	Zone 20, 21 & 22

Ex d Enclosure - Aluminium

Zones 1 & 2, 21 & 22











- · Certified for use in Zone 1, 2 & 21, 22 hazardous areas.
- · Suitable for use as junction boxes, control stations, terminal boxes, local control stations, motor starters motor distribution and switchracks.
- · Designed to house pushbuttons, terminals and cable terminations.
- For protection of electrical equipment in applications where flammable liquids, gases and vapours or combustible dusts are present.
- · Full range of pushbuttons, stop buttons, pilot lights and selector switches available for integration.
- · Customised etched identification labels.
- · Epoxy coated.
- · Windows available on request.
- · Manufactured from Copper Free Aluminum Alloy.

Comes standard with:

- · Stainless steel hinges
- External stainless steel mounting feet
- · Internal mounting pan
- · Internal/ external earth stud
- · Drilled and tapped entries as required



PROTECTION TECHNIQUES

Ex db IIB or IIB + H2 T db, tb, [ia] or [ib] IP66 Ex tb IIIC T...°C Db IP66 Ta...°C Ex db [ia Ga] IIB or IIB + H2 Gb db, tb, [ia] or [ib] IP66 Ex db [ia Gb] IIB or IIB + H2 Gb db, tb, [ia] or [ib] IP66 (Refer to certificate for detailed markings)

CERTIFICATION

AMBIENT TEMPERATURE

IECEX INE 20.0046X

-50°C up to +60°C

Ex d Enclosure - Aluminium

Zones 1 & 2, 21 & 22

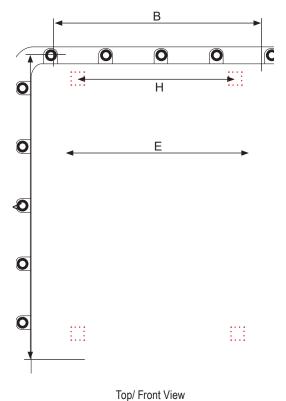


ORDERING GUIDE

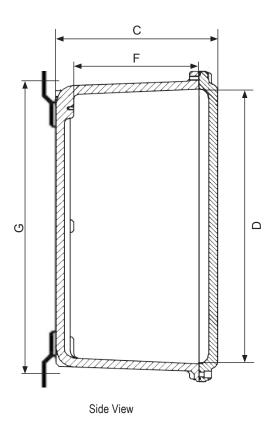
These enclosures are only sold with IECEx certified operators and/or terminals fitted. Empty enclosures are not available for sale. Contact your local sales engineer to discuss your specific requirements.

	Dimensions (mm)											
		External			Internal		Mounting Centers Mounting Plates					
	Height	Width	Depth	Height	Width	Depth	Height	Width	Earth			Weight
Part Number	(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	Stud	Height	Width	(kg)
FJB224/A▲	315	250	175	230	160	130	180	241	M8	215	150	10
FJB425/A▲	425	247	230	330	153	188	290	249	M8	320	150	15
FJB446/A▲	489	412	260	375	300	208	335	414	M8	360	290	35
FJB456/A▲	530	492	258	418	385	203	360	480	M8	395	360	43
FJB566/A▲	594	540	312	464	414	233	400	559	M10	445	395	78
FJB656/A▲	832	445	315	720	340	235	630	449	M10	670	295	90
FJB666/A▲	832	610	315	720	500	235	630	604	M10	670	450	120
FJB667/A▲	832	610	410	720	500	330	630	604	M10	670	450	135

[▲]Available on request



*Red squares are indicative of mounting centres on the back of the enclosure and are not shown at the correct scale



Ex d Enclosure - Stainless Steel

Zones 1 & 2, 21 & 22





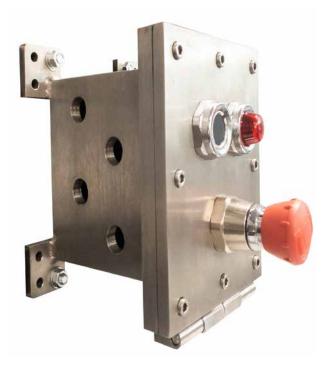




- Certified for use in Zone 1, 2 & 21, 22 hazardous areas.
- · Suitable for use as junction boxes, control stations, terminal boxes, local control stations, motor starters, motor distribution and switchracks.
- · Designed to house pushbuttons, terminals and cable terminations.
- For protection of electrical equipment in applications where flammable liquids, gases and vapours or combustible dusts are present.
- · Full range of pushbuttons, stop buttons, pilot lights and selector switches available for integration.
- · Customised etched identification labels.
- · Windows available on request.
- · Manufactured from 316 Stainless Steel.

Comes standard with:

- · Stainless steel hinges
- · External stainless steel mounting feet
- Internal mounting pan
- Internal/ external earth stud
- · Drilled and tapped entries as required



PROTECTION TECHNIQUES

Ex db IIB or IIB + H2 T3 / T6 Gb Ex tb IIIC T...°C Db IP66 Ta...°C Ex db [ia Ga] IIB or IIB + H2 Gb T3 / T6 IP66 Ex db [ia Gb] IIB or IIB + H2 Gb T3 / T6 IP66 (Refer to certificate for detailed markings)

CERTIFICATION

IECEx INE 20.0046X

AMBIENT TEMPERATURE

-20°C up to +60°C -60°C up to +60°C

Ex d Enclosure - Stainless Steel

Zones 1 & 2, 21 & 22



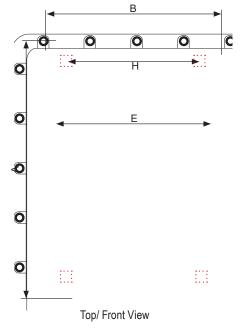
ORDERING GUIDE

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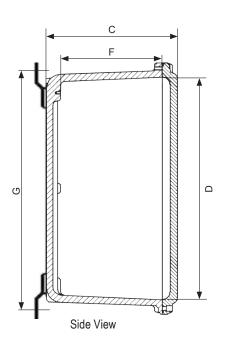
These enclosures are only sold with IECEx certified operators and/or terminals fitted. Empty enclosures are not available for sale. Contact your local sales engineer to discuss your specific requirements.

	Dimensions (mm)									_	
		External			Internal			g Centre	Mounting Plate		-
	Height	Width	Depth	Height	Width	Depth	Height	Width			Weight
Part Number	(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	Height	Width	(kg)
FJB114/S▲	180	150	168	130	100	130	140	130	120	90	11
FJB234/S▲	290	230	178	230	170	140	225	225	210	150	23
FJB434-A/S▲	400	230	180	340	170	140	335	225	320	150	30
FJB434-B/S▲	400	280	180	340	220	140	335	275	320	200	34
FJB435/S▲	460	270	220	400	210	180	395	265	380	190	42
FJB445-A/S▲	410	310	220	350	250	180	345	315	330	230	42
FJB445/S▲	450	370	224	390	310	180	385	365	370	290	56
FJB546/S▲	600	340	244	530	270	200	525	325	510	250	70
FJB556-A/S▲	500	440	250	430	370	200	425	425	410	350	82
FJB556-B/S▲	560	470	250	490	400	200	485	455	470	380	96
FJB646/S▲	710	330	290	630	250	240	625	305	610	230	103
FJB656/S▲	710	420	297	690	340	240	685	395	670	320	146
FJB666/S▲	780	530	305	700	450	240	675	520	680	430	207
FJB768/S▲	1120	670	450	1020	570	380	1000	650	1000	550	432

[▲]Available on request



*Red squares are indicative of mounting centres on the back of the enclosure and are not shown at the correct scale



Sloping Roof Control Station Zones 1 & 2, 21 & 22



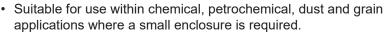












- 40° sloping roof with 40mm overhang ensures material slides off the roof and is directed away from the top of the door.
- · Available with or without gland plate.
- · Gasket material Black Neoprene.
- Silicon option available on request IP65 and IP66 only.
- Certified IP66 glass viewing windows available (298 x 218 or 198 x 118).
- · Manufactured from 1.5mm 316 stainless steel with N4 surface finish.

Comes standard with:

- · Steel mounting pan
- · 7mm stainless steel lock
- · External mounting flange
- · Internal and external 6mm or 8mm earth stud (10mm available on request)
- 3mm stainless steel gland plate
- Earth strap kit
- Brass gland plate available on request
- · Customised etched identification and certification label

PROTECTION RATINGS

Ex e IIC T6 Gb Ex nA IIC T6 Gb Ex de IIC T6 Gb Ex tD A21/22 T80°C DIP A21/22 Ta80°C Ex t IIIC T80°C Db

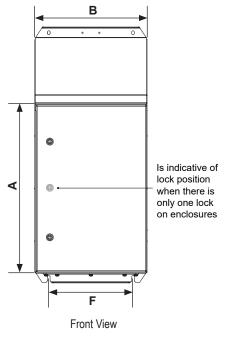
CERTIFICATION

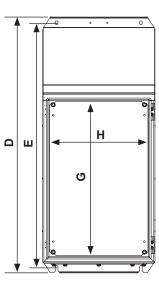
IECEx ITA 10.0023X

AMBIENT TEMPERATURE

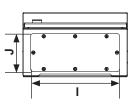
-20°C up to +40°C | 55°C

TECHNICAL DRAWINGS









Front View Side View With Internals With Internals **Bottom View With Internals**

Sloping Roof Control Station Zones 1 & 2, 21 & 22



ORDERING GUIDE

These enclosures are only sold with IECEx certified operators and/or terminals fitted. Empty enclosures are not available for sale. Contact your local sales engineer to discuss your specific requirements.

		Dimensions (mm)										
			Externa	I		Moui Cen		Mounti	ng Pan	Gla Ope		No. of Locks
Part Number	Description	Height (A)	Width (B)	Depth (C)^	Total Height (D)*	Height (E)	Width (F)	Height (G)	Width (H)	Height (I)	Width (J)	
CBK-S*030215/G0 [▲]		300	200	150	551	512	100	250	150	-	-	1
CBK-S*030420/G0 [▲]		300	400	200	551	571	300	250	350	_	_	1
CBK-S*040315/G0 [▲]		400	300	150	651	612	200	350	250	_	_	1
CBK-S*040420/G0 [▲]		400	400	200	651	671	300	350	350	_	_	1
CBK-S*040620/G0▲		400	600	200	710	671	500	350	550	_	_	1
CBK-S*040630/G0▲	No gland	400	600	300	794	755	500	350	550	-	_	1
CBK-S*060420/G0▲	plate	600	400	200	910	871	300	550	350	-	_	1
CBK-S*060630/G0▲		600	600	300	994	955	500	550	550	_	_	1
CBK-S*080620/G0▲		800	600	200	1110	1071	500	750	550	_	_	2
CBK-S*080630/G0 [▲]		800	600	300	1194	1155	500	750	550	_	_	2
CBK-S*100620/G0 [▲]		1000	600	200	1310	1271	500	950	550	_	_	2
CBK-S*120830/G0 [▲]		1200	800	300	1594	1555	700	1150	750	_	_	2
CBK-S*030215▲		300	200	150	551	512	100	250	150	100	55	1
CBK-S*030420*		300	400	200	551	571	300	250	350	300	105	1
CBK-S*040315▲		400	300	150	651	612	200	350	250	200	55	1
CBK-S*040420*		400	400	200	651	671	300	350	350	300	105	1
CBK-S*040620▲		400	600	200	710	671	500	350	550	500	105	1
CBK-S*040630▲	1 x bottom	400	600	300	794	755	500	350	550	500	205	1
CBK-S*060420*	gland plate	600	400	200	910	871	300	550	350	300	105	1
CBK-S*060630*		600	600	300	994	955	500	550	550	500	205	1
CBK-S*080620*		800	600	200	1110	1071	500	750	550	500	105	2
CBK-S*080630 ⁴		800	600	300	1194	1155	500	750	550	500	205	2
CBK-S*100620*		1000	600	200	1310	1271	500	950	550	500	105	2
CBK-S*120830 [▲]		1200	800	300	1594	1555	700	1150	750	700	245	2
CBK-S*030215/G3 [▲]		300	200	150	551	512	100	250	150	100	55	1
CBK-S*030420/G3*		300	400	200	551	571	300	250	350	300	105	1
CBK-S*040315/G3 [▲]		400	300	150	651	612	200	350	250	200	55	1
CBK-S*040420/G3*		400	400	200	651	671	300	350	350	300	105	1
CBK-S*040620/G3*	1 bottom	400	600	200	710	671	500	350	550	500	105	1
CBK-S*040630/G3*	gland plate,	400	600	300	794	755	500	350	550	500	205	1
CBK-S*060420/G3▲	2 side gland	600	400	200	910	871	300	550	350	300	105	1
CBK-S*060630/G3▲	plates	600	600	300	994	955	500	550	550	500	205	1
CBK-S*080620/G3▲		800	600	200	1110	1071	500	750	550	500	105	2
CBK-S*080630/G3 [▲]		800	600	300	1194	1155	500	750	550	500	205	2
CBK-S*100620/G3 [▲]		1000	600	200	1310	1271	500	950	550	500	105	2
CBK-S*120830/G3 [▲]		1200	800	300	1594	1555	700	1150	750	700	245	2

[▲] Available on request

Replace the asterisk (*) in the part number above, with a letter from the table below for the corresponding protection technique that is required.

E	Ex e, Ex d e	
N	Ex nA	
Т	Ex tD, DIP, Ex t	

^{*} Total height includes sloping roof and mounting flanges

[^] Total depth space required is depth plus 40mm for roof overhang

Sloping Roof Terminal Enclosure

Zones 1 & 2, 21 & 22













- Suitable for use within chemical, petrochemical, dust and grain applications where a small enclosure is required.
- 40° sloping roof with 40mm overhang ensures material slides off the roof and is directed away from the top of the door.
- Available with or without gland plate.
- Gasket material Black Neoprene.
- Silicon option available on request IP65 and IP66 only.
- Certified IP66 glass viewing windows available (298 x 218 or 198 x 118).
- Manufactured from 1.5mm 316 stainless steel with N4 surface finish.

Comes standard with:

- · Steel mounting pan
- · 7mm stainless steel lock
- · External mounting flange
- Internal and external 6mm or 8mm earth stud (10mm available on request)
- 3mm stainless steel gland plate
- Earth strap kit
- Brass gland plate available on request
- · Customised etched identification and certification label



PROTECTION RATINGS

Ex e IIC T6 Gb Ex nA IIC T6 Gb Ex de IIC T6 Gb Ex tD A21/22 T80°C DIP A21/22 Ta80°C Ex t IIIC T80°C Db

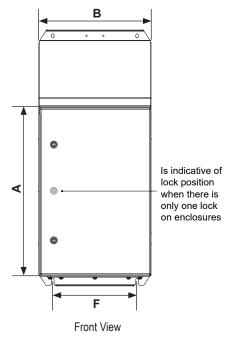
CERTIFICATION

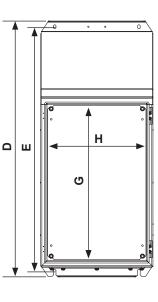
IECEx ITA 10.0023X

AMBIENT TEMPERATURE

-20°C up to +40°C | 55°C

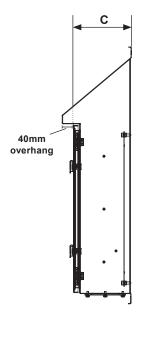
TECHNICAL DRAWINGS

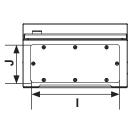




Front View

With Internals





Side View With Internals **Bottom View**

Sloping Roof Terminal Enclosure Zones 1 & 2, 21 & 22



ORDERING GUIDE



These enclosures are only sold with terminals fitted. Empty enclosures are not available for sale. Contact your local sales engineer to discuss your specific requirements.

Dimensions (mm)

		Mounting								Gland		No. of
			Externa	<u> </u>		Cen	_	Mounti	ng Pan	g Pan Openi		Locks
Part Number	Description	Height (A)	Width (B)	Depth (C)^	Total Height (D)*	Height (E)	Width (F)	Height (G)	Width (H)	Height (I)	Width (J)	
TBK-S*030215/G0▲		300	200	150	551	512	100	250	150	_	_	1
TBK-S*030420/G0▲		300	400	200	551	571	300	250	350	_	_	1
TBK-S*040315/G0 [▲]		400	300	150	651	612	200	350	250	_	_	1
TBK-S*040420/G0▲		400	400	200	651	671	300	350	350	_	_	1
TBK-S*040620/G0 [▲]		400	600	200	710	671	500	350	550	_	_	1
TBK-S*040630/G0 [▲]	No gland	400	600	300	794	755	500	350	550	_	_	1
TBK-S*060420/G0*	plate	600	400	200	910	871	300	550	350	_	_	1
TBK-S*060630/G0*		600	600	300	994	955	500	550	550	-	_	1
TBK-S*080620/G0*		800	600	200	1110	1071	500	750	550	-	_	2
TBK-S*080630/G0 [▲]		800	600	300	1194	1155	500	750	550	-	_	2
TBK-S*100620/G0 [▲]		1000	600	200	1310	1271	500	950	550	_	_	2
TBK-S*120830/G0 [▲]		1200	800	300	1594	1555	700	1150	750	_	_	2
TBK-S*030215 [▲]		300	200	150	551	512	100	250	150	100	55	1
TBK-S*030420▲		300	400	200	551	571	300	250	350	300	105	1
TBK-S*040315 [▲]		400	300	150	651	612	200	350	250	200	55	1
TBK-S*040420▲		400	400	200	651	671	300	350	350	300	105	1
TBK-S*040620▲		400	600	200	710	671	500	350	550	500	105	1
TBK-S*040630▲	1 x bottom	400	600	300	794	755	500	350	550	500	205	1
TBK-S*060420▲	gland plate	600	400	200	910	871	300	550	350	300	105	1
TBK-S*060630▲		600	600	300	994	955	500	550	550	500	205	1
TBK-S*080620▲		800	600	200	1110	1071	500	750	550	500	105	2
TBK-S*080630 [▲]		800	600	300	1194	1155	500	750	550	500	205	2
TBK-S*100620▲	_	1000	600	200	1310	1271	500	950	550	500	105	2
TBK-S*120830▲	_	1200	800	300	1594	1555	700	1150	750	700	245	2
TBK-S*030215/G3▲		300	200	150	551	512	100	250	150	100	55	1
TBK-S*030420/G3▲		300	400	200	551	571	300	250	350	300	105	1
TBK-S*040315/G3▲		400	300	150	651	612	200	350	250	200	55	1
TBK-S*040420/G3▲		400	400	200	651	671	300	350	350	300	105	1
TBK-S*040620/G3▲	1 bottom	400	600	200	710	671	500	350	550	500	105	1
TBK-S*040630/G3▲	gland plate,	400	600	300	794	755	500	350	550	500	205	1
TBK-S*060420/G3▲	2 side gland	600	400	200	910	871	300	550	350	300	105	1
TBK-S*060630/G3▲	plates	600	600	300	994	955	500	550	550	500	205	1
TBK-S*080620/G3▲		800	600	200	1110	1071	500	750	550	500	105	2
TBK-S*080630/G3 [▲]		800	600	300	1194	1155	500	750	550	500	205	2
TBK-S*100620/G3 [▲]		1000	600	200	1310	1271	500	950	550	500	105	2
TBK-S*120830/G3 [▲]		1200	800	300	1594	1555	700	1150	750	700	245	2

Replace the asterisk (*) in the part number above, with a letter from the table below for the corresponding protection technique that is required.

E	Ex e, Ex d e	
N	Ex nA	
Т	Ex tD, DIP, Ex t	

Available on request
Total height includes sloping roof and mounting flanges

[^] Total depth space required is depth plus 40mm for roof overhang

Flat Roof Control Station

Zones 1 & 2, 21 & 22









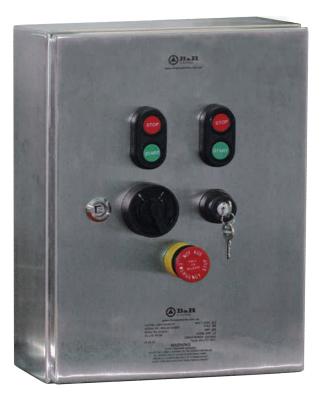




- Suitable for Hazardous environments in the most demanding conditions.
- Enclosures suited for Zones 1 & 2, 21 & 22.
- · Gasket material Black Neoprene.
- Silicon gasket available on request for IP65 and IP66 only.
- Wall mounting brackets, ordered separately (M8 fixings).
- · Certified IP66 glass viewing windows available (298 x 218 or
- Manufactured from 1.5mm thick 316 stainless steel.
- N4 surface finish.

Comes standard with:

- Steel mounting pan
- · 3mm stainless steel gland plate
- 7mm stainless steel lock
- Internal and external 6mm or 8mm earth stud (10mm available on request)
- · Earth strap kit
- Brass gland plates available on request
- · Customised etched identification and certification label
- · Factory fitted, full range of IECEx certified operators available



PROTECTION RATINGS

Ex e IIC T6 Gb Ex nA IIC T6 Gc Ex de IIC T6 Gb Ex tD A21/22 T80°C DIP A21/22 Ta80°C Ex t IIIC T80°C Db

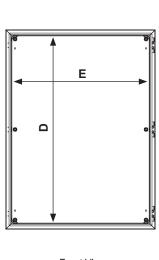
CERTIFICATION

IECEx ITA 10.0023X

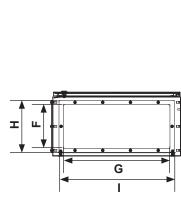
AMBIENT TEMPERATURE

-20°C up to +40°C | 55°C

Is indicative of lock position 4 when there is only one lock on enclosures Front View







Front View With Internals

Side View

Bottom View

Flat Roof Control Station

Zones 1 & 2, 21 & 22



ORDERING GUIDE

These enclosures are only sold with IECEx certified operators and/or terminals fitted. Empty enclosures are not available for sale. Contact your local sales engineer to discuss your specific requirements.

					Dim	ensions	(mm)				
			Externa	l	Moui Pa		Gla Ope		Gla Pla		No. of Locks
Part Number	Description	Height (A)	Width (B)	Depth (C)^	Height (D)	Width (E)	Height (F)	Width (G)	Height (H)	Width (I)	
CBK-F*030215/G0*		300	200	150	250	150	55	100	_	_	1
CBK-F*030420/G0*		300	400	200	250	350	105	300	_	_	1
CBK-F*040315/G0 ⁴		400	300	150	350	250	55	200	_	_	1
CBK-F*040420/G0*		400	400	200	350	350	105	300	_	_	1
CBK-F*040620/G0 ⁴		400	600	200	350	550	105	500	_	_	1
CBK-F*040630/G0▲		400	600	300	350	550	205	500	_	_	1
CBK-F*050420/G0*	No gland	500	400	200	450	350	105	300	_	_	1
CBK-F*060420/G0*	plate	600	400	200	550	350	105	300	_	_	1
CBK-F*060630/G0*		600	600	300	550	550	205	500	_	_	1
CBK-F*080620/G0*		800	600	200	750	550	105	500	_	_	2
CBK-F*080630/G0 ⁴		800	600	300	750	550	205	500	_	_	2
CBK-F*100620/G0 [▲]		1000	600	200	950	550	105	500	_	_	2
CBK-F*120830/G0 ⁴	-	1200	800	300	1150	750	245	700	_	_	2
CBK-F*030215 [▲]		300	200	150	250	150	55	100	95	140	1
CBK-F*030420▲	-	300	400	200	250	350	105	300	145	340	1
CBK-F*040315 [▲]		400	300	150	350	250	55	200	95	240	1
CBK-F*040420▲	-	400	400	200	350	350	105	300	145	340	1
CBK-F*040620▲	-	400	600	200	350	550	105	500	145	540	1
CBK-F*040630▲	-	400	600	300	350	550	205	500	245	540	1
CBK-F*050420▲	1 x bottom	500	400	200	450	350	105	300	145	340	1
CBK-F*060420▲	gland plate	600	400	200	550	350	105	300	145	340	1
CBK-F*060630▲	-	600	600	300	550	550	205	500	245	540	1
CBK-F*080620▲		800	600	200	750	550	105	500	145	540	2
CBK-F*080630 [▲]	-	800	600	300	750	550	205	500	245	540	2
CBK-F*100620 [▲]		1000	600	200	950	550	105	500	145	540	2
CBK-F*120830 [▲]	-	1200	800	300	1150	750	245	700	245	740	2
CBK-F*030215/G3▲		300	200	150	250	150	55	100	95	140	1
CBK-F*030420/G3▲	-	300	400	200	250	350	105	300	145	340	1
CBK-F*040315/G3▲	-	400	300	150	350	250	55	200	95	240	1
CBK-F*040420/G3 [▲]	-	400	400	200	350	350	105	300	145	340	1
CBK-F*040620/G3*		400	600	200	350	550	105	500	145	540	1
CBK-F*040630/G3▲	1 bottom	400	600	300	350	550	205	500	245	540	1
CBK-F*050420/G3▲	gland plate,	500	400	200	450	350	105	300	145	340	1
CBK-F*060420/G3*	2 side gland plates	600	400	200	550	350	105	300	145	340	1
CBK-F*060630/G3*	piates	600	600	300	550	550	205	500	245	540	1
CBK-F*080620/G3▲		800	600	200	750	550	105	500	145	540	2
CBK-F*080630/G3*		800	600	300	750	550	205	500	245	540	2
CBK-F*100620/G3*		1000	600	200	950	550	105	500	145	540	2
CBK-F*120830/G3*		1200	800	300	1150	750	245	700	245	740	2

[▲] Available on request

Replace the asterisk (*) in the part number above, with a letter from the table below for the corresponding protection technique that is required.

E	Ex e, Ex d e	
N	Ex nA	
Т	Ex tD, DIP, Ex t	

Flat Roof Terminal Enclosure

Zones 1 & 2, 21 & 22













- Suitable for Hazardous environments in the most demanding conditions.
- Enclosures suited for Zones 1 & 2, 21 & 22.
- · Silicon gasket available on request for IP65 and IP66 only.
- Wall mounting brackets, ordered separately (M8 fixings).
- Certified IP66 glass viewing windows available (298 x 218 or 198 x 118).
- Manufactured from 1.5mm thick 316 stainless steel.
- N4 surface finish.

Comes standard with:

- · Steel mounting pan
- 3mm stainless steel gland plate
- 7mm stainless steel lock
- Internal and external 6mm or 8mm earth stud (10mm available on request)
- · Earth strap kit
- Brass gland plates available on request
- · Customised etched identification and certification label



PROTECTION RATINGS

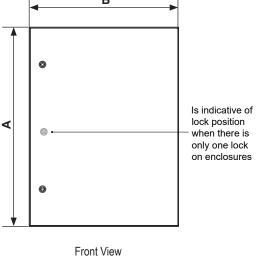
Ex e IIC T6 Gb Ex nA IIC T6 Gb Ex de IIC T6 Gb Ex tD A21/22 T80°C DIP A21/22 Ta80°C Ex t IIIC T80°C Db

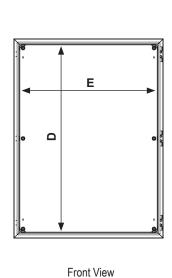
CERTIFICATION

IECEx ITA 10.0023X

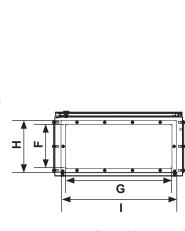
AMBIENT TEMPERATURE

-20°C up to +40°C | 55°C









Bottom View

Flat Roof Terminal Enclosure

Zones 1 & 2, 21 & 22



ORDERING GUIDE



These enclosures are only sold with terminals fitted. Empty enclosures are not available for sale. Contact your local sales engineer to discuss your specific requirements.

ь.		/ \
I)ım	ensions	(mm)

						CHSIOHS	(111111)				
		External			Mou Pa		Gla Ope	and ning	Gla Pla		No. of Locks
Part Number	Description	Height (A)	Width (B)	Depth (C) [^]	Height (E)	Width (F)	Height (G)	Width (H)	Height (I)	Width (J)	
TBK-F*030215/G0 [▲]		300	200	150	250	150	_	_	_	_	1
TBK-F*030420/G0▲	-	300	400	200	250	350	_	_	_	_	1
TBK-F*040315/G0▲	_	400	300	150	350	250	_	_	_	_	1
TBK-F*040420/G0▲		400	400	200	350	350	_	_	_	_	1
TBK-F*040620/G0▲	-	400	600	200	350	550	_	_	_	_	1
TBK-F*040630/G0▲		400	600	300	350	550	_	_	_	_	1
TBK-F*050420/G0 [▲]	No gland	500	400	200	450	350	_	_	_	_	1
TBK-F*060420/G0▲	plate	600	400	200	550	350	_	_	_	_	1
TBK-F*060630/G0▲	-	600	600	300	550	550	_	_	_	_	1
TBK-F*080620/G0▲		800	600	200	750	550	_	_	_	_	2
TBK-F*080630/G0▲	-	800	600	300	750	550	_	_	_	_	2
TBK-F*100620/G0 [▲]		1000	600	200	950	550	_	_	_	_	2
TBK-F*120830/G0 [▲]	-	1200	800	300	1150	750	_	_	_	_	2
TBK-F*030215▲		300	200	150	250	150	_	_	95	140	1
TBK-F*030420▲		300	400	200	250	350	105	300	145	340	1
TBK-F*040315 ≜		400	300	150	350	250	55	200	95	240	1
TBK-F*040420▲		400	400	200	350	350	105	300	145	340	1
TBK-F*040620▲	-	400	600	200	350	550	105	500	145	540	1
TBK-F*040630▲	-	400	600	300	350	550	205	500	245	540	1
TBK-F*050420▲	1 x bottom	500	400	200	450	350	105	300	145	340	1
TBK-F*060420▲	gland plate	600	400	200	550	350	105	300	145	340	1
TBK-F*060630▲	-	600	600	300	550	550	205	500	245	540	1
TBK-F*080620▲	-	800	600	200	750	550	105	500	145	540	2
TBK-F*080630▲	-	800	600	300	750	550	205	500	245	540	2
TBK-F*100620▲	-	1000	600	200	950	550	105	500	145	540	2
TBK-F*120830 [▲]	-	1200	800	300	1150	750	205	700	245	740	2
TBK-F*030215/G3▲		300	200	150	250	150	55	100	95	140	1
TBK-F*030420/G3▲	-	300	400	200	250	350	105	300	145	340	1
TBK-F*040315/G3▲	-	400	300	150	350	250	55	200	95	240	1
TBK-F*040420/G3▲	-	400	400	200	350	350	105	300	145	340	1
TBK-F*040620/G3▲	-	400	600	200	350	550	105	500	145	540	1
TBK-F*040630/G3▲	1 bottom	400	600	300	350	550	205	500	245	540	1
TBK-F*050420/G3▲	gland plate,	500	400	200	450	350	105	300	145	340	1
TBK-F*060420/G3▲	2 side gland plates	600	400	200	550	350	105	300	145	340	1
TBK-F*060630/G3▲	plates	600	600	300	550	550	205	500	245	540	1
TBK-F*080620/G3▲		800	600	200	750	550	105	500	145	540	2
TBK-F*080630/G3 [▲]		800	600	300	750	550	205	500	245	540	2
TBK-F*100620/G3*		1000	600	200	950	550	105	500	145	540	2
TBK-F*120830/G3*		1200	800	300	1150	750	205	700	245	740	2

[▲] Available on request

Replace the asterisk (*) in the part number above, with a letter from the table below for the corresponding protection technique that is required.

E	Ex e, Ex d e
N	Ex nA
Т	Ex tD, DIP, Ex t

Screwed Flat Roof Control Station

Zones 1 & 2, 21 & 22













- Suitable for Hazardous environments in the most demanding conditions.
- Enclosures suited for Zones 1 & 2, 21 & 22.
- Manufactured from 1.5mm thick 316 stainless steel.
- N4 surface finish.

Comes standard with:

- · External fixed mounting flanges
- · External earth stud
- · Internal earth strap kit
- · Gasket material Black Neoprene.
- · Silicon gasket available on request for IP65 and IP66
- · Screwed lid
- · Stainless steel fixings
- · Internal mounting pan available on request
- · Customised etched certification and identification label
- · Factory fitted, full range of IECEx certified operators available



PROTECTION RATINGS

Ex e IIC T6 Gb Ex nA IIC T6 Gc Ex d e IIC T6 Gb Ex tD A21/22 T80°C DIP A21/22 T80°C Ex t IIIC T80°C Db

CERTIFICATION

IECEx ITA 10.0023X

AMBIENT TEMPERATURE

-20°C ~ +40°C / 55°C option

Screwed Flat Roof Control Station

Zones 1 & 2, 21 & 22



ORDERING GUIDE

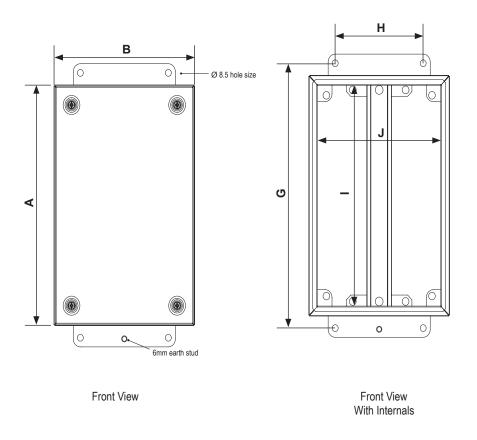
These enclosures are only sold with IECEx certified operators and/or terminals fitted. Empty enclosures are not available for sale. Contact your local sales engineer to discuss your specific requirements.

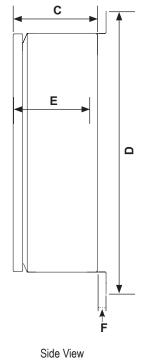
				Dimens	Fixings (mm)		Openings		_		
				Total		Distance From					
	Height*	Width	Depth [^]	Height*	Depth to rail	Mounting Surface [^]	Height	Width	Height	Width	
Part Number	(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(1)	(J)	No. of fixings
CBS-F*010108 ⁴	150	150	80	203	59	10	180	125	125	125	4
CBS-F*020212 ⁴	200	200	120	253	99	10	230	125	175	175	4
CBS-F*030212 ⁴	300	200	120	353	99	10	330	125	275	175	4
CBS-F*040212 ⁴	400	200	120	453	99	10	430	125	375	175	6
CBS-F*060212 ⁴	600	200	120	653	99	10	630	125	575	175	6

[▲]Available on request

Replace the asterisk (*) in the part number above, with a letter from the table below for the corresponding protection technique that is required.

Е	Ex e, Ex d e
Ν	Ex nA
Т	Ex tD, DIP, Ex t





^{*}Height (A) is enclosure only, Total Height (D) includes top & bottom mounting flanges.

[^]Total protrusion of enclosure from mounting surface is Depth (C) plus Distance From Mounting Surface (F).

Screwed Flat Roof Terminal Enclosure

Zones 1 & 2, 21 & 22













- Suitable for Hazardous environments in the most demanding conditions.
- Enclosures suited for Zones 1 & 2, 21 & 22.
- Manufactured from 1.5mm thick 316 stainless steel.
- N4 surface finish.

Comes standard with:

- · External fixed mounting flanges
- · External earth stud
- · Internal earth strap kit
- · Gasket material Black Neoprene.
- · Silicon gasket available on request for IP65 and IP66
- Internal DIN rail
- · Screwed lid
- · Stainless steel fixings
- · Factory fitted terminals
- Internal mounting pan available on request
- · Customised etched certification and identification label



*certified enclosures not supplied empty

PROTECTION RATINGS

Ex e IIC T6 Gb Ex nA IIC T6 Gc Ex d e IIC T6 Gb Ex tD A21/22 T80°C DIP A21/22 T80°C Ex t IIIC T80°C Db

CERTIFICATION

AMBIENT TEMPERATURE

IECEx ITA 10.0023X

-20°C ~ +40°C / 55°C option

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Screwed Flat Roof Terminal Enclosure

Zones 1 & 2, 21 & 22



ORDERING GUIDE

These enclosures are only sold with terminals fitted. Empty enclosures are not available for sale. Contact your local sales engineer to discuss your specific requirements.

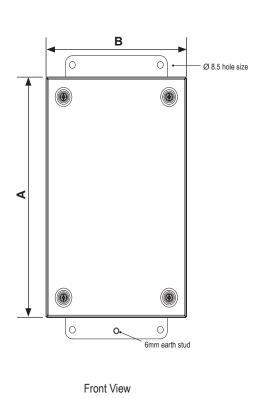
				Dimens	sions (mm)	Fixings (mm)		Openings			
				Total		Distance From					-
	Height*	Width	Depth [^]	Height*	Depth to rail	Mounting Surface [^]	Height	Width	Height	Width	
Part Number	(A)	(B)	(C)	(D)	(E)	(F)	(G)	(H)	(1)	(J)	No. of fixings
TBS-F*010108*	150	150	80	203	59	10	180	125	125	125	4
TBS-F*020212*	200	200	120	253	99	10	230	125	175	175	4
TBS-F*030212▲	300	200	120	353	99	10	330	125	275	175	4
TBS-F*040212▲	400	200	120	453	99	10	430	125	375	175	6
TBS-F*060212 ▲	600	200	120	653	99	10	630	125	575	175	6

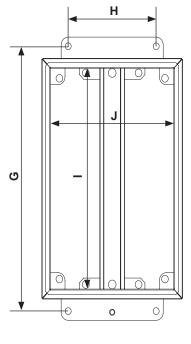
[▲]Available on request

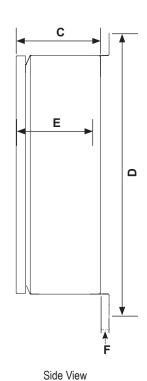
Replace the asterisk (*) in the part number above, with a letter from the table below for the corresponding protection technique that is required.

E	Ex e, Ex d e	
N	Ex nA	
Т	Ex tD, DIP, Ex t	

TECHNICAL DRAWINGS







Front View

With Internals

^{*}Height (A) is enclosure only, Total Height (D) includes top & bottom mounting flanges.

[^]Total protrusion of enclosure from mounting surface is Depth (C) plus Distance From Mounting Surface (F).

Fixed Lid Control Station

Zones 1 & 2, 21 & 22













- Suitable for use within chemical, petrochemical, dust and grain applications where a small enclosure is required.
- Available pre-configured or customer built for ease of installation from one to six operators.
- Specially designed gutter system to protect equipment.
- · Certified control operators.
- · Gasket material EDPM black.
- · Silicon gasket available on request for IP65 and IP66 only.
- Mounting hardware NOT supplied with product.
- Manufactured from 1.5mm 316 stainless steel with N4 surface finish.

Comes standard with:

- · Stainless steel cover fixings
- Mounting flanges
- Earth strap kit
- · Customised etched certification and identification label
- 2 x M20 bottom clearance holes, 1 entry fitted with certified plastic plug



PROTECTION RATINGS

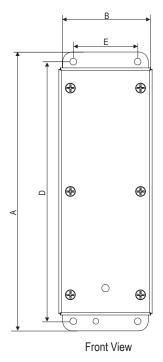
Ex e IIC T6 Gb Ex nA IIC T6 Gb Ex de IIC T6 Gb Ex tD A21/22 T80°C DIP A21/22 Ta80°C Ex t IIIC T80°C Db

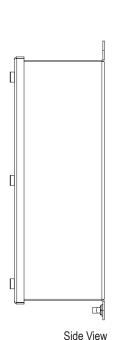
CERTIFICATION

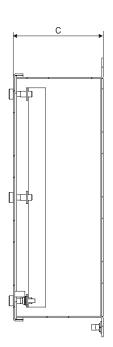
AMBIENT TEMPERATURE

IECEx ITA 10.0023X

-20°C ~ +40°C / 55°C option







Side View With Internals

Fixed Lid Control Station

Zones 1 & 2, 21 & 22



ORDERING GUIDE

These enclosures are only sold with IECEx certified operators fitted. Empty enclosures are not available for sale. Contact your local sales engineer to discuss your specific requirements.

		Dimensions (mm)			Mounting centers		Description	
Part Number		Pole	Height (A)	Width (B)	Depth (C)	Height (D)	Width (E)	
CSS1P1GRN	Pushbutton	_	112	90	90	132	67	1NO+1NC, Start, Green
CSS1P1RED			112	90	90	132	67	1NO+1NC, Stop, Red
CSS1P3MH		_	112	90	90	132	67	1NO+2xNC, emergency stop self-locking,
CSS1P2		_	112	90	90	132	67	1NO+1NC, double button, Stop- Start
CSS1P4		_	112	90	90	132	67	1NO+1NC, mushroom head button, Black
CSS2PGPR		_	159	90	90	179	67	1NO+1NC, 2 pushbuttons 1 x Red 1 x Green
CSS2P1GRNLR		_	159	90	90	179	67	1NO+1NC, Green PB Red Lamp
CSS2P1REDLR		_	159	90	90	179	67	1NO+1NC, Red PB Red Lamp
CSS2P1REDLG		_	159	90	90	179	67	1NO+1NC, Red PB Green Lamp
CSS2P1GRNLY	Pushbutton & Lamp	_	159	90	90	179	67	1NO+1NC, Green PB Yellow Lamp
CSS3PGPRLR			_	205	90	90	225	67
CSS3PGPRLG		_	205	90	90	225	67	1NO+1NC, 2 pushbuttons, 1 x Green 1 + Red, Green Lamp
CSS1LR	Lomp	_	112	90	90	132	67	AC24~240V, single lamp, Red
CSS1LG	Lamp	_	112	90	90	132	67	AC24~240V, single lamp, Green
CSS2P2LR	Double Pushbutton &	_	159	90	90	179	67	1NO+1NC, AC24~240V, double PB Red Green, Lamp Red
CSS2P2LG	Lamp	_	159	90	90	179	67	1NO+1NC, AC24~240V, double Red Green lamp, Green
CSS1K6	Switch	2-р	112	90	90	132	67	Small handle, Ø39mm
CSS2S6H4	OWITOH	4-p	159	90	90	179	67	2NO+2NC, LL 0

Other configurations are available on request

GRP Terminal Box

Zones 0 & 1, 2, 21 & 22











- Certified for use in Zones 0, 1, 2 & 21, 22 hazardous areas
- Designed to house terminals.
- For protection of electrical equipment in applications where flammable liquids, gases and vapours or combustible dusts are present.
- · Light weight, compact and easy-to-install.
- · Cable can connect to terminals from different directions.
- Max rated voltage AC690V.
- · Anti-static glass fibre reinforced polyester (GRP) with stainless steel screws.

Comes standard with:

- · Internal sealing silicone gasket
- Earth continuity
- Terminals



PROTECTION RATINGS

Ex ia IIC T6/T5 Ga Ex ib IIC T6/T5 Gb Ex eb IIC T6/T5 Gb Ex tb IIIC T80°C/T95°C Db (Refer to certificate for detailed markings)

CERTIFICATION

IECEx CNEX 18.0029X

AMBIENT TEMPERATURE

-40°C up to +40°C / 55°C option

GRP Terminal Box

Zones 0 & 1, 2, 21 & 22



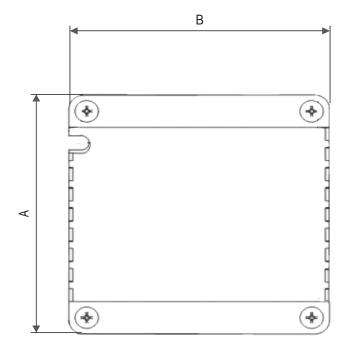
ORDERING GUIDE

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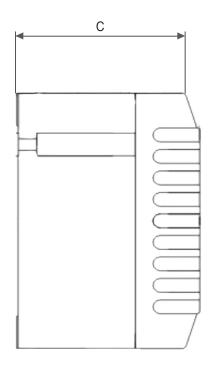
These enclosures are only sold with terminals fitted. Empty enclosures are not available for sale. Contact your local sales engineer to discuss your specific requirements.

	Dimensions (mm)								
Part Number	Height	Width	Depth	Type	Terminals	Earth Terminals	Cable Entries	Plugs	Weight
Fait Number	(A)	(B)	(C)	Туре	Terrilliais	Terrilliais	Elliles	Flugs	(kg)
TBGS520E44320▲	95	95	62	Ex e / Ex tb	4 x 2.5mm	2 x 2.5mm	4 x 20mm	3	0.24
TBGS520E44325▲	95	95	62		4 x 2.5mm	2 x 2.5mm	4 x 25mm	3	0.24
TBGS520E64320▲	95	95	62		6 x 2.5mm	2 x 2.5mm	4 x 20mm	3	0.24
TBGS520E64325▲	95	95	62		6 x 2.5mm	2 x 2.5mm	4 x 25mm	3	0.24
TBGS520E88420▲	125	125	69		8 x 2.5mm	4 x 2.5mm	8 x 20mm	4	0.39
TBGS520E88425▲	125	125	69		8 x 2.5mm	4 x 2.5mm	8 x 25mm	4	0.39
TBGS520E18420▲	125	125	69		10 x 2.5mm	4 x 2.5mm	8 x 20mm	4	0.39
TBGS520E18425▲	125	125	69		10 x 2.5mm	4 x 2.5mm	8 x 25mm	4	0.39
TBGS520I44320*	95	95	62	Ex ia / Ex ib	4 x 2.5mm	2 x 2.5mm	4 x 20mm	3	0.24
TBGS520I44325▲	95	95	62	EX IA / EX ID	4 x 2.5mm	2 x 2.5mm	4 x 25mm	3	0.24

[▲]Available on Request







Side View

AUSTRALIA

Sales

T: 1300 Enclosures (1300 362 567) E: sales@brenclosures.com.au brenclosures.com.au

QUEENSLAND

Brisbane Manufacturing, Sales & Warehouse 51 Stradbroke Street Heathwood QLD 4110 (PO Box 1151) Browns Plains BC QLD 4118 T: +61 7 3714 1111

E: salesqld@brenclosures.com.au

NORTH QUEENSLAND
Townsville Sales & Warehouse
Unit 4/ 780 Ingham Road
Mount Louisa, QLD 4814
(PO Box 7615)
Garbutt QLD 4814
T: +61 7 4727 1900
E: salestvl@brenclosures.com.au

NEW SOUTH WALES NSW & ACT Sales & Warehouse 7 Metters Place Wetherill Park NSW 2164 T: +61 2 9915 9555

E: sales nsw@brenclosures.com. au

NEWCASTLE Distribution Ross Joice Agencies Pty Ltd 109-111 Broadmeadow Road Broadmeadow NSW 2292 T: +61 2 4961 4433

VICTORIA

VIC & TAS Sales & Warehouse 50-52 Sunmore Close Heatherton VIC 3202 T: +61 3 9552 0552

E: salesvic@brenclosures.com.au

TASMANIA Distribution W P Martin Pty Ltd 85 Elizabeth Street Launceston TAS 7250 T: +61 3 6331 5545

SOUTH AUSTRALIA
SA & NT Manufacturing, Sales & Warehouse
505 Grand Junction Road
Wingfield SA 5013
T: +61 8 8417 6222
E: salessa@brenclosures.com.au

NORTHERN TERRITORY Distribution Jewell Distributors Pty Ltd Cnr Hidden Valley & Beaton Roads Berrimah NT 0828 T: +61 8 8947 0870

WESTERN AUSTRALIA
WA Sales Office & Warehouse
6 Montgomery Way
Malaga WA 6090
T: +61 8 6310 4777
E: saleswa@brenclosures.com.au

NEW ZEALAND

Sales

B&R Enclosures Limited T: 0800 Enclosures (0800 362 567) E: sales@brenclosures.co.nz brenclosures.co.nz

AUCKLAND Distribution Matchmaster Unit 6103 Cryers Road East Tamaki Auckland NZ 2013 T: +64 9 265 2097 E: sales@brenclosures.co.nz

CHRISTCHURCH Distribution Matchmaster 17 Washbournes Road Wigram Christchurch NZ 8042 T: +64 3 348 0659 E: sales@brenclosures.co.nz

CHINA

B&R Enclosures (Suzhou) Co. Ltd E: sales@brenclosures.com.cn brenclosures.cn

SUZHOU

Manufacturing, Sales & Warehouse South Block, Building 23 Chuangtou Industrial Zone Heshun Road, SIP, Suzhou 215122 PEOPLE'S REPUBLIC OF CHINA

T: +86 512 8718 2139

E: sales@brenclosures.com.cn

MIDDLE EAST

Sales
B&R Gulf
M: +966 503 496 592
T: +966 381 2869 1 or +966 5034 9659 2

E: sales@brgulf.com.sa brgulf.com

DAMMAM Manufacturing, Sales & Warehouse B&R Gulf Factory No. 12, Modon Buildings,

King Salman Road, Industrial Area 3, Dammam, Saudi Arabia

M: +966 503 496 592

T: +966 381 2869 1 or +966 5034 9659 2

E: sales@brgulf.com.sa

brgulf.com