



COST-SAVING WIRING - A MUST FOR THE DESIGN OF JUNCTION BOXES AND TERMINAL ENCLOSURES

Cooper Crouse-Hinds © 2008 - all rights reserved

EX-TERMINAL AND JUNCTION BOXES

7.2

EX-JUNCTION BOXES

7.4

UNIVERSAL EX-TERMINAL BOXES PLASTIC

7.10

UNIVERSAL EX-TERMINAL BOXES LIGHT ALLOY

7.26

EX-TERMINAL BOXES LIGHT ALLOY FLAME PROOF

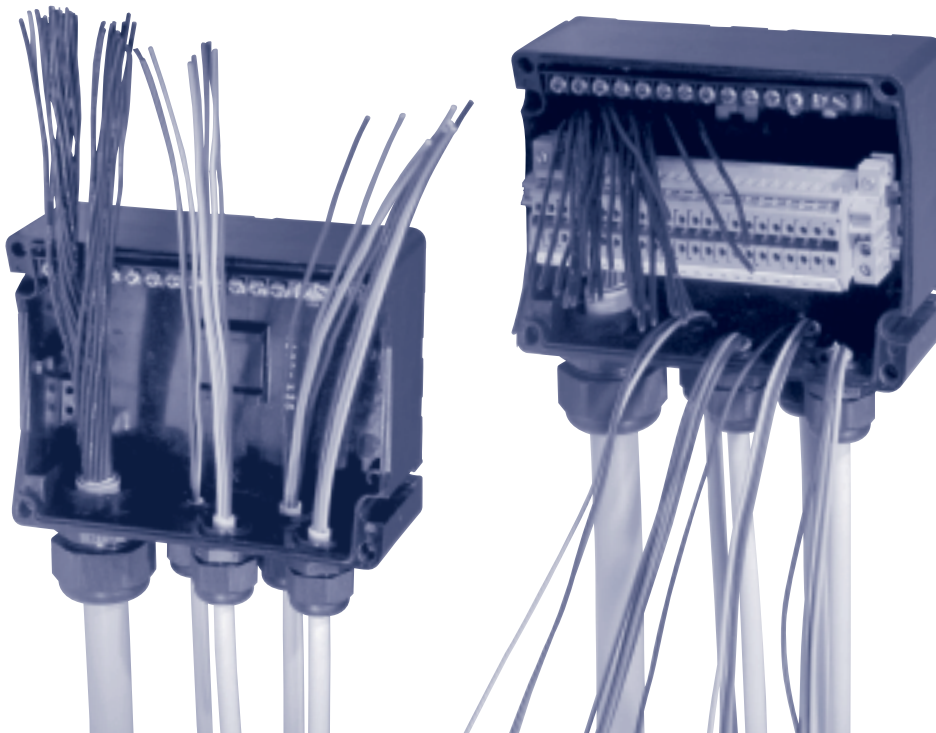
7.32

EX-TERMINAL ENCLOSURES STAINLESS STEEL

7.36

EX-INTERMEDIATE MOTOR TERMINAL BOXES

7.72



Ex-e Terminal and Junction boxes

Apparatus which do not create arcing or sparking or exceed max. permissible surface temperatures during normal operating conditions can be used in accordance with the European standard EN 60079-7 - "Ex-e" in hazardous areas of Zone 1, 2, 21 and 22.

All CEAG junction- and terminal boxes are manufactured according to this standard.

Unused cable entry holes are to be closed using either a certified screw or blanking plug. Terminal boxes can be subsequently re-fitted or upgraded with certified cable glands according to national regulations and the manufacturers recommendations.

The requirements on the EMC terminal boxes for use in the instrumentation and controlling fields are met with our metal and interior coated housings. The coating in combination with the affordable cable entries shield off the sensible instrumentation areas against unwanted external radiation fields.

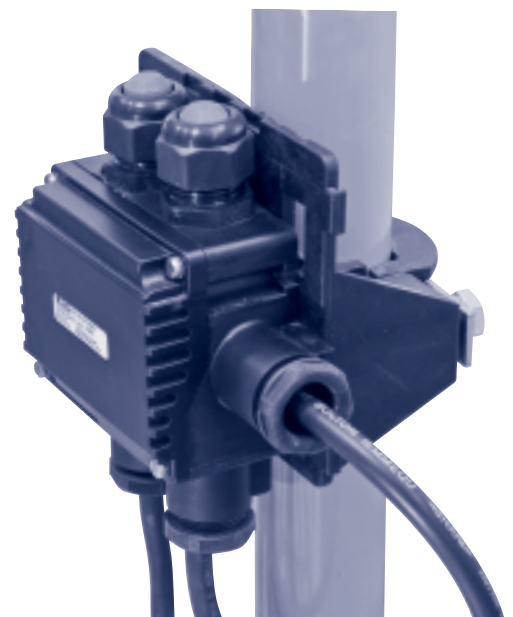
Connection or terminal boxes of the increased safety standard, which are used in nearly every country in the world are in comparison to the flame-proof encapsulated version, much cheaper and are generally much easier to install.

User-friendly technology and cost saving installation

Large terminal compartment allows an easy installation or retrofitting of wiring. Cost-saving terminal arrangements according to the customer's specification speed up the total installation time.

The innovative clip-on mounting system has in conjunction with the special designed apparatus the advantage of being a cost reducer.

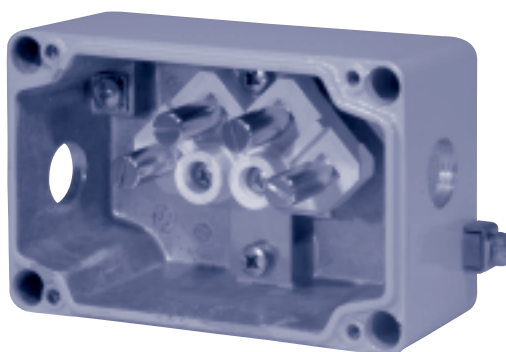
Installation without a hot work permit! Using the clip-on mounting frames for the installation on walls, trellises and pipes you save time. Simply plugged! In combination with the new connection friendly apparatus you will find that the installation is now time saving and therefore saving you money.



Various solutions for your individual installation tasks

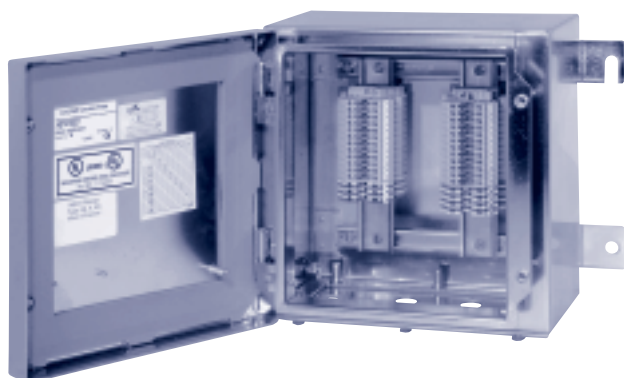
Terminal boxes made of moulded plastic with type of protection Ex-e are the most economic solution for wiring tasks. Lightweight design, corrosion resistance as well as wide thermal range are only a few of the advantages.

Light metal termination boxes combines light weight with heavy duty enclosure material. External earth connectors as well as metal cable glands directly screwed into the wall material offers some advantages using armoured cables.



High chemical resistance of the housing is ensured by the use of impact-resistant plastic powder coating.

Covered screws and all outside and inside metallic parts are made of stainless steel.



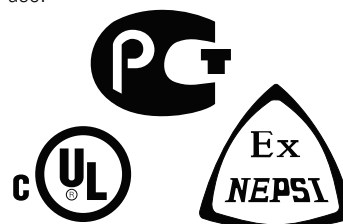
The robust design of the stainless steel terminal enclosures provides a high degree of safety for offshore applications and in places where particularly adverse chemical, mechanical and climatic operating conditions prevail within the hazardous area.

Various terminal configuration as well as gland plates pre-manufactured according to the customer's requirements offers more flexibility for instrumentation and control installations using the Ex-e and Ex-i technologies.

All CEAG terminal enclosures will fulfil the latest requirement on testing according to international standards.

Beside the ATEX certification tests a lot of other certification procedures have to be run through before the product leaves the factory.

Additional type approvals from UL, GOST or Nepsi allows a world wide use.



E X - J U N C T I O N B O X

Plastic version for Zone 1

The robust junction boxes made of plastic and light alloy are featured by their friendly mounting and installation capability and their design. They are fitted with pillar terminals for cable of up to 6 mm².

The practical orientated housing form allows for a problem-free access to the connection terminals for installation.

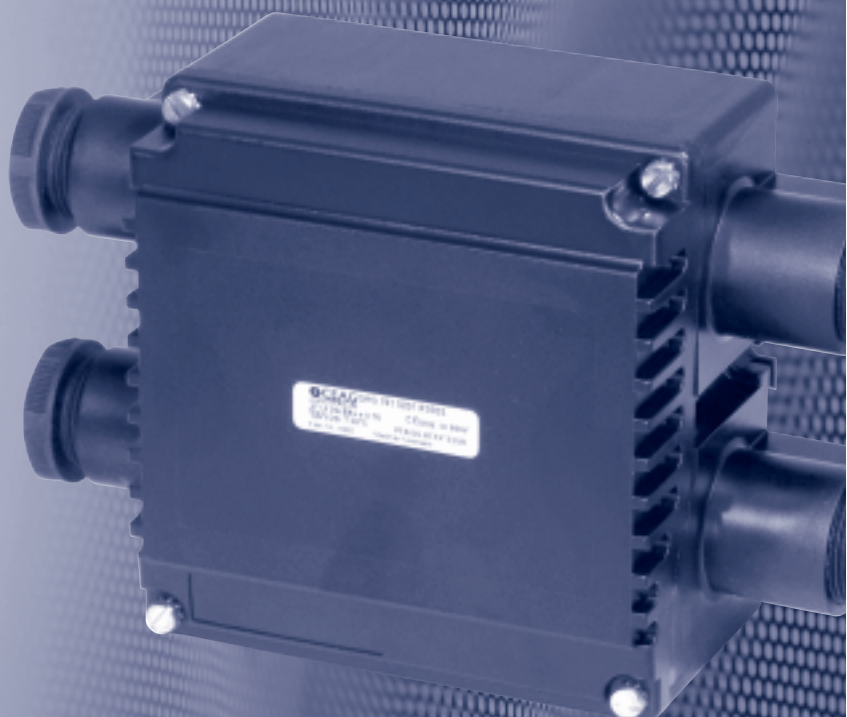
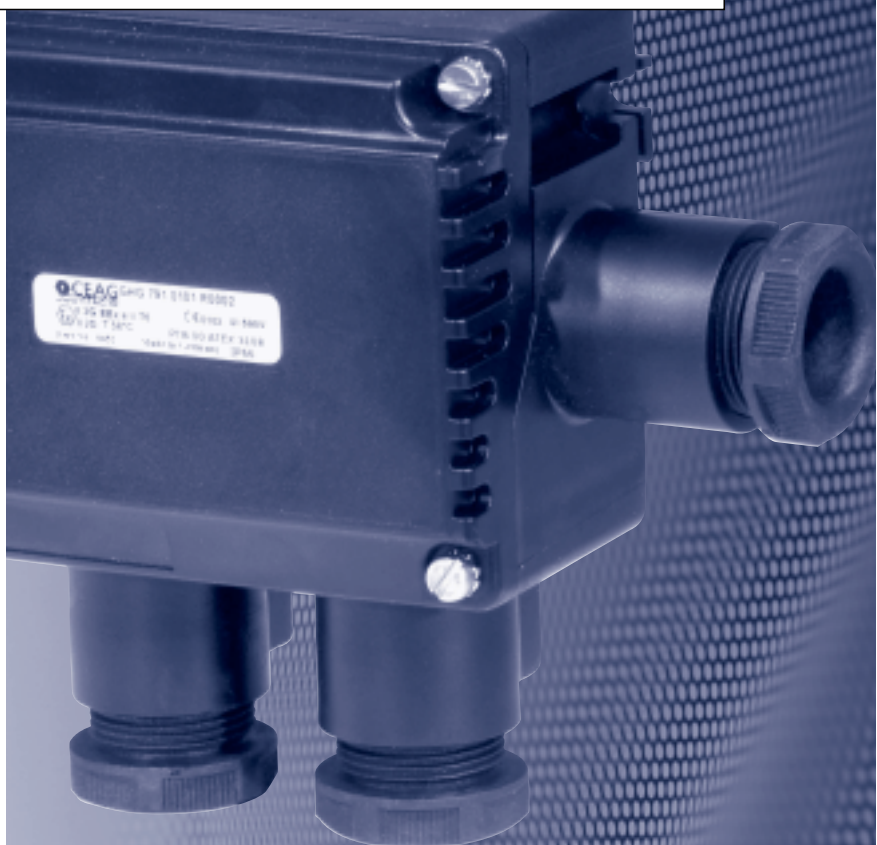
With the CEAG mounting system, the plastic junction boxes are economical in their use for mounting on walls, trellis and pipes. With wire and cable entries in the sizes M25 or M32 for Ø 8 – 17 mm or Ø 12 – 21 mm respectively, all requirements for the modern day installation technology are fulfilled.

For cable with armouring there are junction boxes available with internal metal clamps or light alloy versions allowing for screw joints. For the wire and cable entries that are not used there are certified blanking plugs supplied with the junction box.

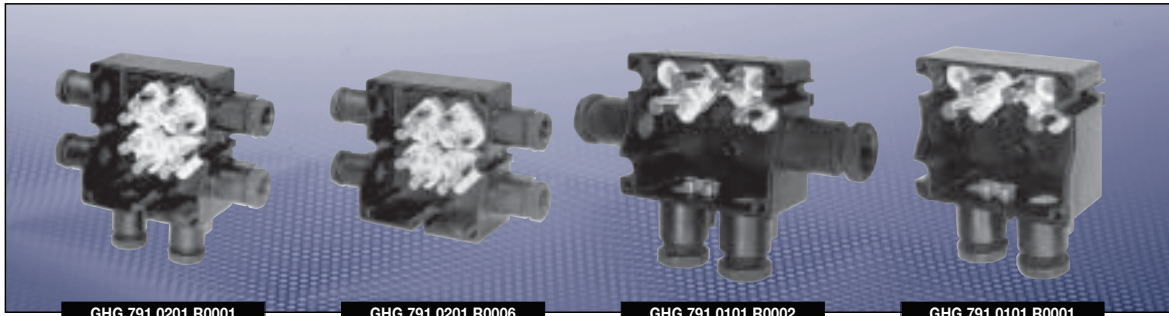
To enable a high chemical resistance of the light alloy junction boxes, these have been given an impact resistant plastic powder coating.

The cover screws and all other external metal parts are made of stainless steel (AISI 316L).

International approvals



- Decisive cost reduction with the CEAG mounting system
- Free accessible connection terminals
- Safety standard IP66
- Version for metal entries available



Technical data

GHG 791 01 up to 6 terminals | GHG 791 02 up to 6 terminals

Marking to 94/9/EC	Ⓔ II 2 G EEx e II T6 / EEx ia IIC T6 / Ⓔ II 2 D IP66 T 58 °C
EC-Type Examination Certificate	PTB 00 ATEX 3108
IECEX certification of conformity	IECEX BK1 07.0034
Marking accd. to IECEX	Ex e II T6 / Ex ia IIC T6 Ex tD A21 IP66 T58 °C
Permissible ambient temperature	-20 °C to +40 °C / -55 °C to +40 °C (option)
Rated voltage	690 V / 550 V ¹⁾
Rated current	depends on terminal cross section
Connecting terminals	max. 4 x 4 mm ² /PE 4 x 2.5 mm ² (multi-wire) max. 2 x 6 mm ² /PE 4 x 4 mm ² (solid-wire) or 2 x 6 mm ² + 1 x 2.5 mm ²
Insulation class	I
Degree of protection accd. EN 60529	IP66
Enclosure material	Polyamide

GHG 791 01 up to 6 terminals

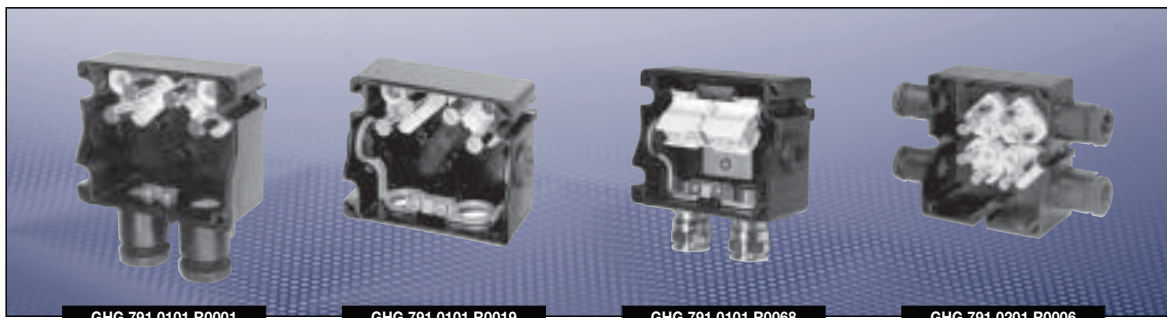
Cable glands/enclosure thread	max. 4 x M25 for cable Ø 8 - 17 mm max. 4 x M20 metal thread
Dimensions (L x W x H)	81.5 x 100 x 61 mm
Weight	approx. 0.3 kg

GHG 791 02 up to 6 terminals

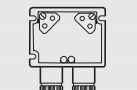
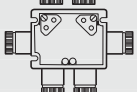
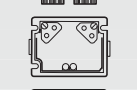
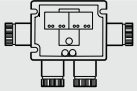
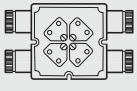
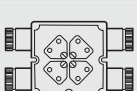
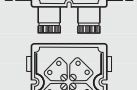
Cable glands/enclosure thread	max. 6 x M25 for cable Ø 8 - 17 mm max. 6 x M32 for cable Ø 12 - 21 mm max. 6 x M20 metal thread
Dimensions (L x W x H)	117.5 x 113.5 x 73.5 mm
Weight	approx. 0.5 kg

¹⁾ for cage clamp terminals

Ex-junction boxes 791



Ordering details

Design	Cable gland	No. of terminals	Order No.
GHG 791 01 up to 6 terminals			
	2 x M25 for cable Ø 8-17 mm	4 x Ex-e, 1 x PE	GHG 791 0101 R0001
	4 x M25 for cable Ø 8-17 mm incl. 2 x blanking plug M25 internal earth plate for 4 x M20 metal cable glands incl. 2 x threaded plugs M20	4 x Ex-e, 1 x PE	GHG 791 0101 R0002
		4 x Ex-e, 1 x PE	GHG 791 0101 R0019
	4 x M25 metal cable glands 4 x M20 metal cable glands	4 x 4 Ex-e ¹⁾ , 2 x PE 4 x 4 Ex-e ¹⁾ , 2 x PE	GHG 791 0101 R0068 GHG 791 0101 R0068
GHG 791 02 up to 6 terminals			
	4 x M25 for cable Ø 12-21 mm incl. 2 x blanking plug M25	6 x Ex-e, 2 x PE	GHG 791 0201 R0006
	4 x M32 for cable Ø 12-21 mm incl. 2 x blanking plug M32	6 x Ex-e, 2 x PE	GHG 791 0201 R0007
	6 x M25 for cable Ø 12-21 mm incl. 4 x blanking plug M25	6 x Ex-e, 2 x PE	GHG 791 0201 R0001
	6 x M32 for cable Ø 12-21 mm incl. 4 x blanking plug M32 internal earth plate for 6 x M20 metal cable glands incl. 4 x threaded plugs M20	6 x Ex-e, 2 x PE	GHG 791 0201 R0002
		8 x Ex-e, 1 x PE	GHG 791 0201 R0003

Other applications available on request.

¹⁾ Cage clamp terminal

Accessories

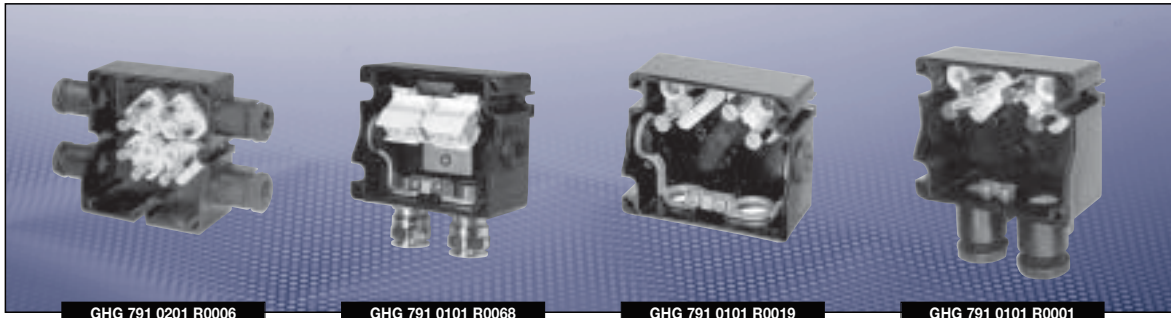
Mounting plate for junction box 791 01

Type	Application	Fixing method	Order No.
Size 1	Wall mounting	screwless mounting	GHG 610 1953 R0101
Size 1	Trellis mounting	screwless mounting	GHG 610 1953 R0103
Size 1	Pipe mounting	screwless mounting	GHG 610 1953 R0102
Protective canopy Size 2	for mounting plate size 1		GHG 610 1955 R0101

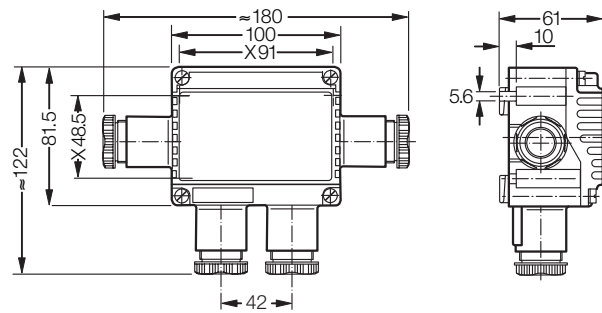
Mounting plate for junction box 791 02

Type	Application	Fixing method	Order No.
Size 2	Wall mounting	screwless mounting	GHG 610 1953 R0104
Size 2	Trellis mounting	screwless mounting	GHG 610 1953 R0106
Size 2	Pipe mounting	screwless mounting	GHG 610 1953 R0105
Protective canopy Size 2	for mounting plate size 2		GHG 610 1955 R0102

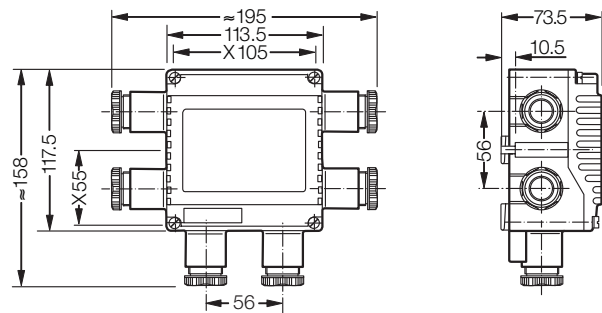
Details for accessories see page 7.78 pp.



Dimension drawing



Type 791 01



Type 791 02

X = mounting dimension

Dimensions in mm

E X - J U N C T I O N B O X E S

Light metal design for Zone 1

The sturdy CEAG junction boxes made of light metal are used to distribute and conduct electricity in areas of Zone 1 and Zone 2 at no risk of explosion. Optionally, mantle terminals with a terminal range of 6 mm² are available for these branching boxes.

Four M20 threaded holes allow variable equipment with various ducts for cables and lines.

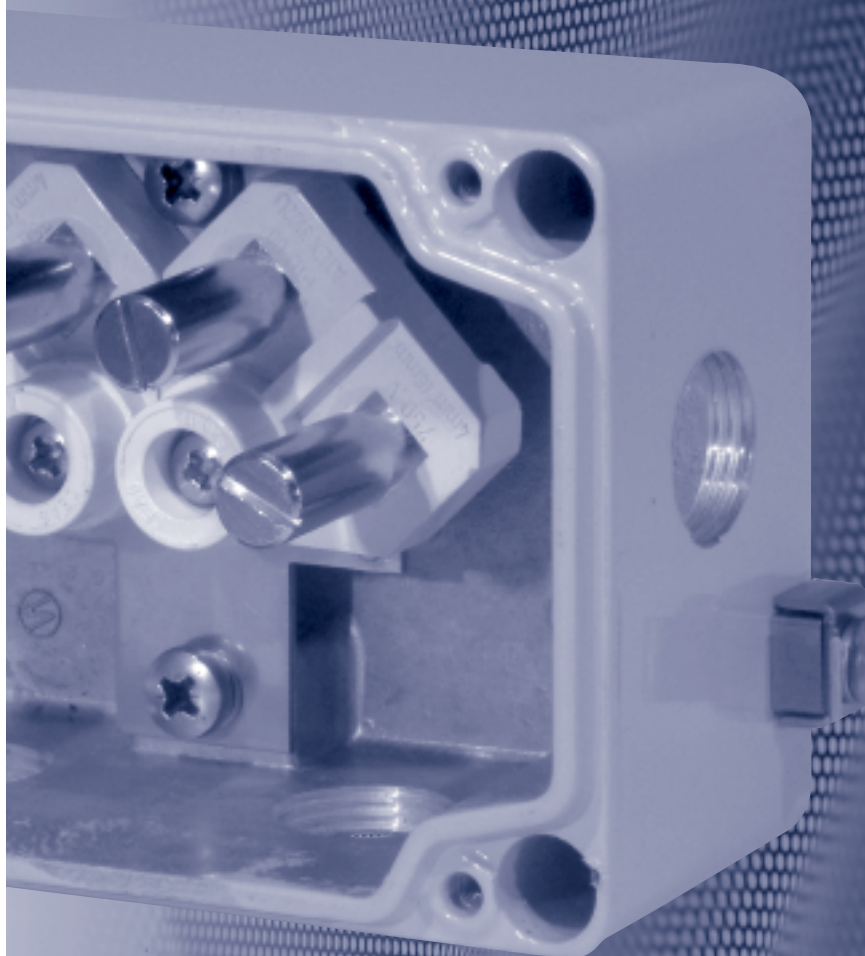
Drilled holes, cable and line ducts, through which no lines are conducted, should be closed with certified threaded stoppers.

High chemical resistance of the housing is ensured by the use of impact-resistant plastic powder coating.

Covered screws and all outside and inside metallic parts are made of stainless steel (AISI 316L).

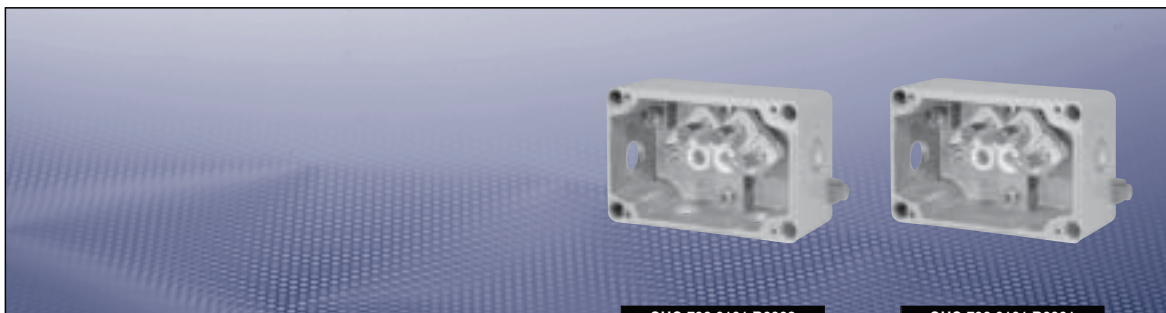
The light metal branching box has an outside earthing connection.

Internationally approved.



Mechanical, chemical and thermal resistance

Impact-resistant plastic powder coating



GHG 793 0101 R0002

GHG 793 0101 R0001

Technical data

Type 793 01 up to 4 terminal

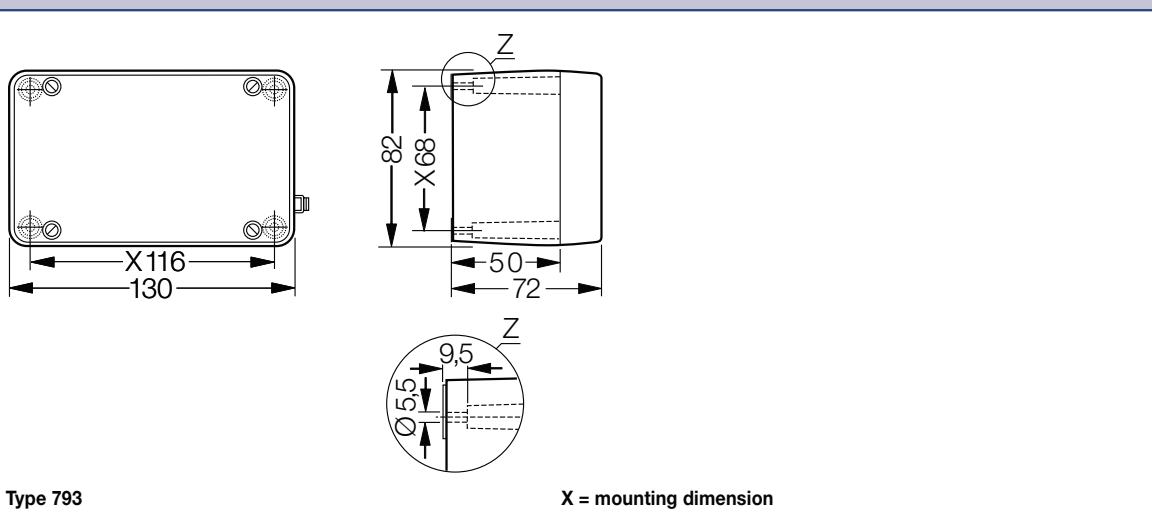
Marking to 94/9/EC	Ⓔ II 2 G EEx e II T6 / EEx ia IIC T6 / Ⓔ II 2 D IP66 T58 °C
EC-Type Examination Certificate	PTB 00 ATEX 3108
Permissible ambient temperature	-20 °C to +40 °C -55 °C to +55 °C (option)
Rated voltage	690 V
Rated current	depends on terminal cross section
Connecting terminals	max. 4 x 4 mm ² /PE 4 x 2.5 mm ² (multi-wire) max. 2 x 6 mm ² /PE 4 x 4 mm ² (solid wire) or 2 x 6 mm ² + 1 x 2.5 mm ²
Insulation class	I
Degree of protection accd. EN 60529	IP66
Cable glands/enclosure drilling	max. 4 x M20 drilling
Dimensions (L x W x H)	82 x 130 x 72 mm
Weight	approx. 0.8 kg
Enclosure material	light alloy die-casting (AlSi)
Enclosure colour	light grey

Ordering details

Design	Cable gland	No. of terminals	Order No.
GHG 793 01 up to 4 terminals			
	2 x M20 drilling	4 x Ex-e, 1 x PE	GHG 793 0101 R0001
	4 x M20 drilling incl. 2 x blanking plug M20	4 x Ex-e, 1 x PE	GHG 793 0101 R0002

Other applications available on request.

Dimension drawing



Dimensions in mm

UNIVERSAL TERMINAL BOXES

Ex-e/Ex-i Technology
plastic version measuring and controlling for Zone 1

The terminal boxes were designed for measuring and controlling utilization in the Ex-e and Ex-i technology. They are used as a link between the main cable to the control room and the branch cables into the field. In addition to this, they may also be used for the direct connection of actuators and sensors.

The new terminal boxes for instrumentation installations are available in 5 sizes, ranging from 6 to max. 60 connection terminals. The optional interior coating protects your data cable connections against external radiation fields. The choice between screw and tension spring (screwless) terminals for single and multi-wire conductors makes it possible for engineers to select the type of connection most suitable for the particular application.

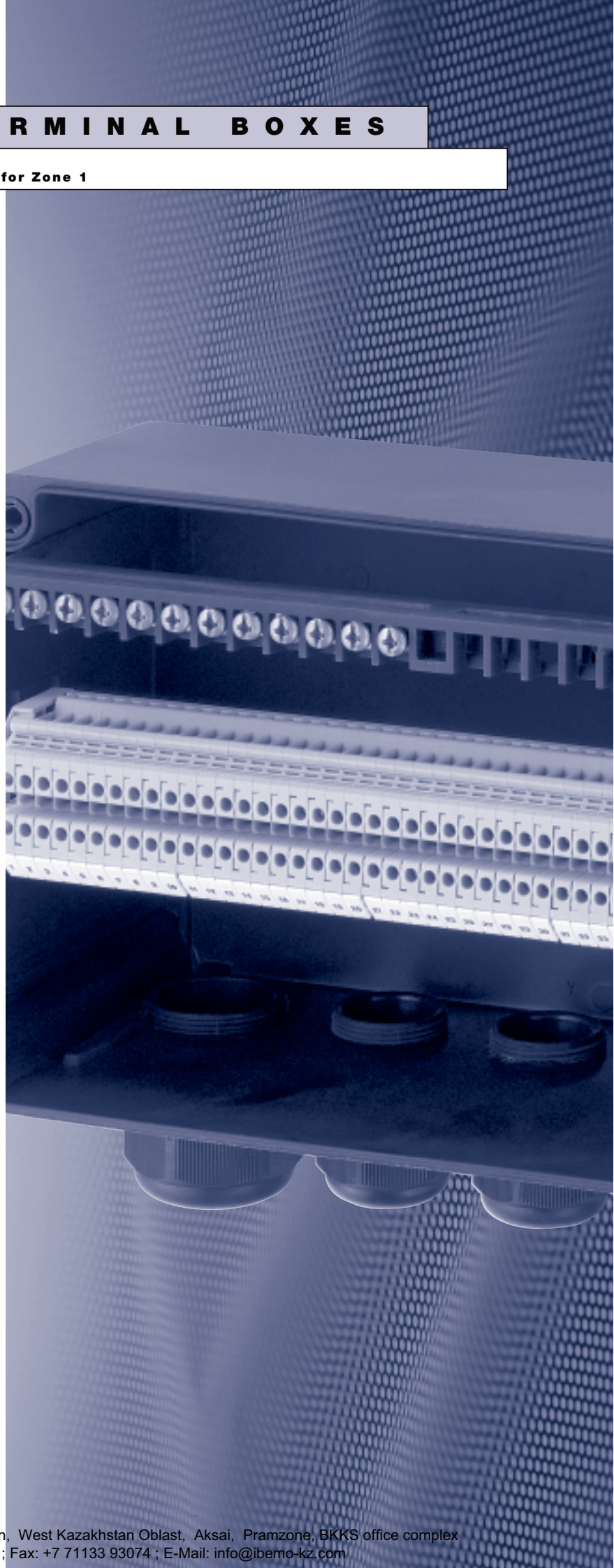
The CEAG installation system provides an economical way of mounting the terminal boxes on walls, trellis work and pipes. The terminal boxes are suited for the use of single or multiple cable glands.

With CEAG terminal boxes it is possible to apply separate potentials such as screen-grid leads or PE/PA conductors to the plug-in PE rails. The snap-out terminal rails allow a problem-free feeding-in of cables.

The well-proven clip-in flanges in moulded plastic or metal design allow multiple application possibilities. As a result of the optimized design, a large drilling surface was created. This can be fitted with a sufficient number of moulded plastic glands or an equal number of metal glands.

International approvals

- Decisive cost saving
- with the CEAG installation system
- Safety standard IP66
- Freely accessible connection terminals
- Clip-in flange technique
- Snap-out terminal rails
- Internal coating
- for EMC-Protection on request



To make it easier for you to be able to choose a terminal or junction box, you will find in table-form all the basic data that is required below. Using the table below you can choose and configure your terminal boxes.

Using the maximum drill surface and the interference diameter of the wire and cable entries tables plus the number of terminals you require, you can choose the right terminal box for your application.

The maximum number of terminals derives from the rated current of the terminal. If the load per terminal lies below the rated current, then the maximum number of terminals for the terminal rail can be used.

The terminal boxes can also be equipped with (when requested) brass flanges and external earthing connectors.

Maximum number of terminals acc. to certification

Type	Terminal cross section in mm ²						
	2,5	4	6	10	16	25	35
GHG 791 01	6	6	–	–	–	–	–
GHG 791 02	12	10	7	–	–	–	–
GHG 731 11	16	14	10	8	8	–	–
GHG 731 12	24	24	18	18	14	–	–
GHG 721 00	26	22	17	13	11	–	–
GHG 721 10	48	40	30	24	20	–	–
GHG 744 01	40	33	25	20	17	17	–
GHG 745 02	2 x 41	2 x 34	2 x 26	2 x 20	17	17	14
GHG 746 03	2 x 94	2 x 78	2 x 59	2 x 47	40	40	32
GHG 749 04	2 x 148	2 x 124	2 x 94	2 x 75	63	63	51

Terminal rails

Type	Rail Length
GHG 791 01	40 mm
GHG 791 02	95 mm
GHG 731 11	107 mm
GHG 731 12	169 mm
GHG 721 00	140 mm
GHG 721 10	262 mm
GHG 744 01	230 mm
GHG 745 02	2 x 235 mm
GHG 746 03	2 x 510 mm
GHG 749 04	2 x 795 mm

Dimensions

Type	Width	x	Height	x	Depth
GHG 791 01	100 mm	x	81 mm	x	61 mm
GHG 791 02	113 mm	x	117 mm	x	73 mm
GHG 731 11	120 mm	x	140 mm	x	95 mm
GHG 731 12	182 mm	x	140 mm	x	95 mm
GHG 721 00	165 mm	x	165 mm	x	131 mm
GHG 721 10	285 mm	x	165 mm	x	143 mm
GHG 744 01	271 mm	x	134 mm	x	136 mm
GHG 745 02	271 mm	x	271 mm	x	136 mm
GHG 746 03	544 mm	x	271 mm	x	136 mm
GHG 749 04	817 mm	x	271 mm	x	136 mm

Space required for wire and cable entries

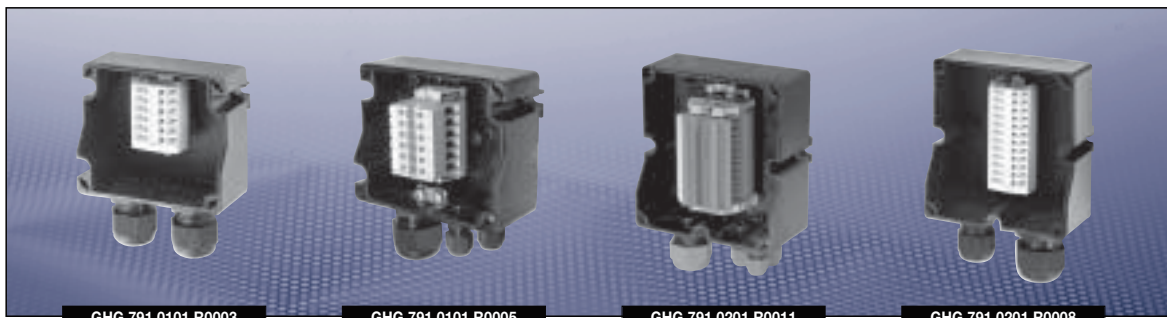
Type	Interference Plastic	Diameter Metal
M12	Ø 19 mm	Ø 21 mm
M16	Ø 25 mm	Ø 21 mm
M20	Ø 31 mm	Ø 26,5 mm
M25	Ø 37 mm	Ø 33 mm
M32	Ø 46 mm	Ø 45,1 mm
M40	Ø 56 mm	Ø 53 mm
M50	Ø 68 mm	Ø 60,5 mm
M63	Ø 84 mm	Ø 80 mm

max. drill surface

Type	Width x Depth
GHG 791 01	80 mm x 45 mm
GHG 791 02	93 mm x 57 mm
GHG 731 11	95 mm x 75 mm
GHG 731 12	144 mm x 75 mm
GHG 721 00	132 mm x 91 mm
GHG 721 10	252 mm x 95 mm
GHG 744 01	238 mm x 134 mm
GHG 745 02	238 mm x 134 mm
GHG 746 03 (2x)	238 mm x 134 mm
GHG 749 04 (3x)	238 mm x 134 mm
Flange 1	70,5 mm x 48,5 mm
Flange 2	204 mm x 72,5 mm



Ex-e/Ex-i terminal box



GHG 791 0101 R0003

GHG 791 0101 R0005

GHG 791 0201 R0011

GHG 791 0201 R0008

Technical data

GHG 791 01 up to 6 terminals | GHG 791 02 up to 12 terminals

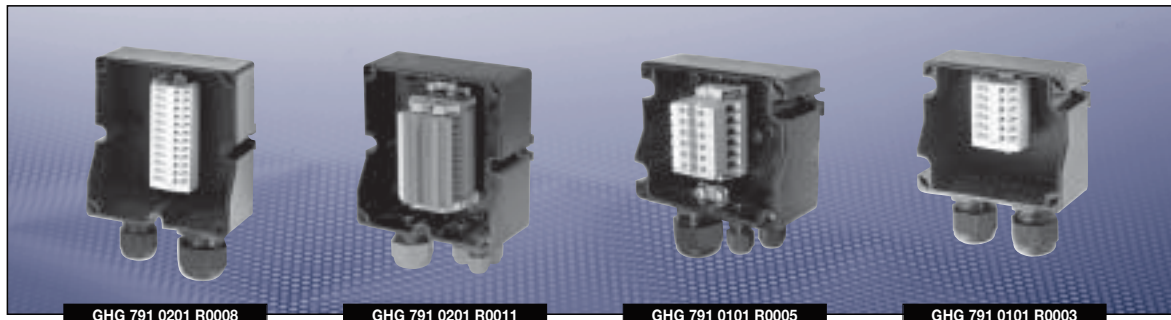
Marking to 94/9/EC	II 2 G EEx e II T6 / EEx ia IIC T6 / II 2 D IP66 T58 °C
EC-Type Examination Certificate	PTB 00 ATEX 3108
IECEX certificate of conformity	IECEX BKI 07.0034
Marking accd. to IECEx	Ex e II T6 / Ex ia IIC T6 Ex tD A21 IP66 T58 °C
Permissible ambient temperature	-20 °C to +40 °C -55 °C to +40 °C (option)
Rated voltage	690 V
Insulation class	I
Degree of protection accd. EN 60529	IP66
Enclosure material	Polyamide
Enclosure colour	black

GHG 791 01 up to 6 terminals

Rated current	max. 30 A
Connecting terminals	up to 4 mm ²
Cable glands/enclosure drilling	max. 2 x M25 or 1 x M25 + 2 x M12
Dimensions (L x W x H)	81.5 x 100 x 61 mm
Weight	approx. 0.3 kg

GHG 791 02 up to 12 terminals

Rated current	max. 39 A
Connecting terminals	up to 6 mm ²
Cable glands/enclosure drilling	max. 2 x M25 or 1 x M32 + 1 x M25 or 1 x M25 + 4 x M12
Dimensions (L x W x H)	117.5 x 113.5 x 73.5 mm
Weight	approx. 0.5 kg



Ordering details

Design	Cable gland	No. of terminals	Order No.
Type 791 01 up to 6 terminals assembled with screw terminals 2 x 2.5 mm ² + PE/PA-terminal 2 x 4 mm ²			
Ex-e	1 x M25 for cable Ø 8-17 mm 1 x M25 for 2 cable Ø 4.5-7 mm 1 x blanking plug for Ø 4.5-7 mm	6 x Ex-e 4 x PE/PA	GHG 791 0101 R0003
Ex-i	1 x M25 for cable Ø 8-17 mm 1 x M25 for 2 cable Ø 4.5-7 mm 1 x blanking plug for Ø 4.5-7 mm	6 x Ex-i 4 x PE/PA	
Ex-e	1 x M25 for cable Ø 8-17 mm 2 x M12 for cable Ø 4-7 mm 1 x blanking plug for M12	6 x Ex-e 4 x PE/PA	
Ex-i	1 x M25 for cable Ø 8-17 mm 1 x M12 for cable Ø 4-7 mm 1 x blanking plug for M12	6 x Ex-i 4 x PE/PA	GHG 791 0101 R0005
			GHG 791 0101 R0006

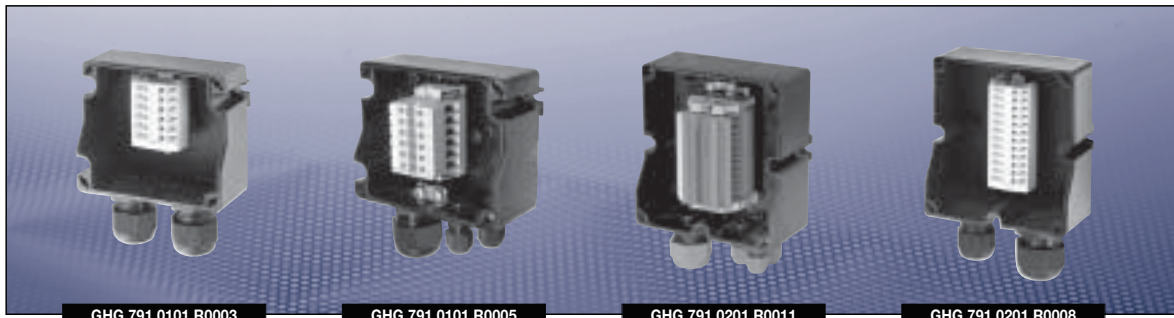
Type 791 01 up to 6 terminals assembled with screwless terminals 2 x 2.5 mm ² + PE/PA-terminal 2 x 4 mm ²			
Ex-i	1 x M25 for cable Ø 8-17 mm 1 x M25 for 2 cable Ø 4.5-7 mm 1 x blanking plug for Ø 4.5-7 mm	6 x Ex-i 1 x PE/PA	GHG 791 0101 R0008
Ex-e	1 x M25 for cable Ø 8-17 mm 2 x M12 for cable Ø 4-7 mm 1 x blanking plug for M12	6 x Ex-e 1 x PE/PA	
Ex-i	1 x M25 for cable Ø 8-17 mm 1 x M12 for cable Ø 4-7 mm 1 x blanking plug for M12	6 x Ex-i 1 x PE/PA	
			GHG 791 0101 R0009
			GHG 791 0101 R0010

Type 791 02 up to 6 terminals assembled with screw terminals 2 x 2.5 mm ² + PE/PA-terminal 2 x 4 mm ²			
Ex-e	1 x M25 for cable Ø 8-17 mm 1 x M25 for 2 cable Ø 4.5-7 mm 2 x blanking plug for Ø 4.5-7 mm	12 x Ex-e 4 x PE/PA	GHG 791 0201 R0008
Ex-i	1 x M25 for cable Ø 8-17 mm 1 x M25 for 2 cable Ø 4.5-7 mm 2 x blanking plug for Ø 4.5-7 mm	12 x Ex-i 4 x PE/PA	
Ex-e	1 x M25 for cable Ø 8-17 mm 4 x M12 for cable Ø 4-7 mm 2 x blanking plug for M12	12 x Ex-e 4 x PE/PA	
Ex-i	1 x M25 for cable Ø 8-17 mm 4 x M12 for cable Ø 4-7 mm 2 x blanking plug for M12	12 x Ex-i 4 x PE/PA	GHG 791 0201 R0010
			GHG 791 0201 R0011

Type 791 02 up to 6 terminals assembled with screwless terminals 2 x 2.5 mm ² + PE/PA-terminal 2 x 4 mm ²			
Ex-i	1 x M25 for cable Ø 8-17 mm 1 x M32 for 4 cable Ø 4.5-7 mm 1 x blanking plug for Ø 4.5-7 mm	12 x Ex-i 4 x PE/PA	GHG 791 0201 R0013
Ex-e	1 x M25 for cable Ø 8-17 mm 4 x M12 for cable Ø 4-7 mm 2 x blanking plug for M12	12 x Ex-e 4 x PE/PA	
Ex-i	1 x M25 for cable Ø 8-17 mm 4 x M12 for cable Ø 4-7 mm 2 x blanking plug for M12	12 x Ex-i 4 x PE/PA	
			GHG 791 0201 R0014
			GHG 791 0201 R0015

Other applications available on request.

Ex-e/Ex-i terminal box



Accessories

Mounting plate for junction box 791 01

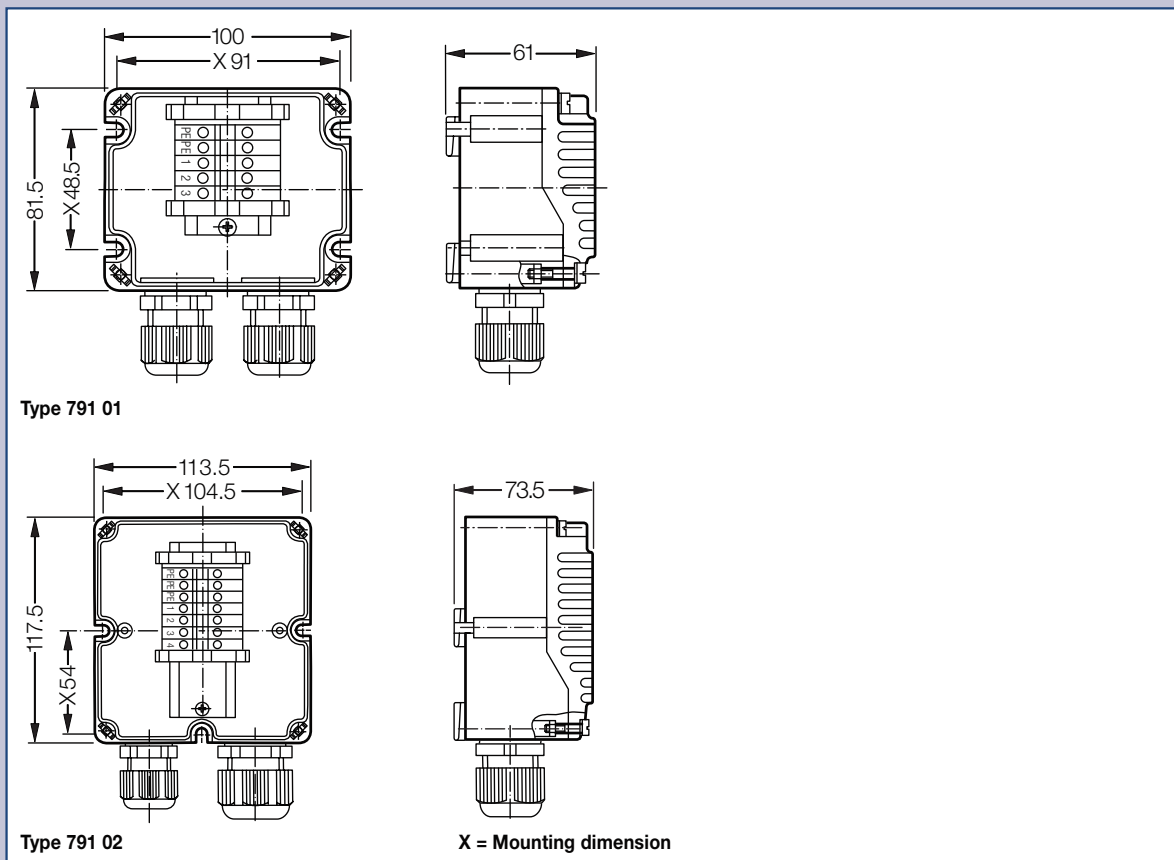
Type	Application	Fixing method	Order No.
Size 1	Wall mounting	screwless mounting	GHG 610 1953 R0101
Size 1	Trellis mounting	screwless mounting	GHG 610 1953 R0103
Size 1	Pipe mounting	screwless mounting	GHG 610 1953 R0102
Protective canopy Size 1	for mounting plate size 1		GHG 610 1955 R0101

Mounting plate for junction box 791 02

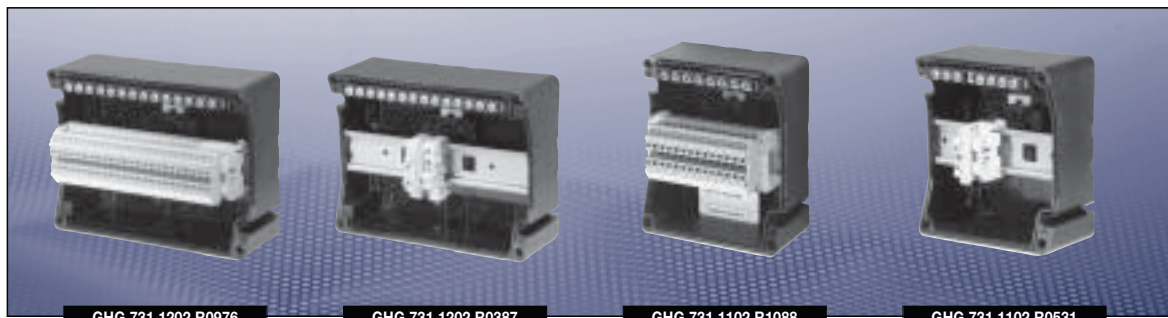
Type	Application	Fixing method	Order No.
Size 2	Wall mounting	screwless mounting	GHG 610 1953 R0104
Size 2	Trellis mounting	screwless mounting	GHG 610 1953 R0106
Size 2	Pipe mounting	screwless mounting	GHG 610 1953 R0105
Protective canopy Size 2	for mounting plate size 2		GHG 610 1955 R0102

Details for accessories see page 7.78 pp.

Dimension drawing



Dimensions in mm



GHG 731 1202 R0976

GHG 731 1202 R0387

GHG 731 1102 R1088

GHG 731 1102 R0531

Technical data

GHG 731 11 up to 16 terminals | GHG 731 12 up to 24 terminals

Marking to 94/9/EC	Ex II 2 G EEx e II T6 / EEx ia IIC T6 / Ex II 2 D IP66 T 80 °C
EC-Type Examination Certificate	PTB 99 ATEX 1044
IECEx certification of conformity	IECEx BKI 07.0023
Marking accd. to IECEx	Ex ed ia/ib m [ia/ib] IIC T4 - T6 Ex tD A21 IP66 T80 °C
Permissible ambient temperature	-20 °C to +40 °C -55 °C to +55 °C (option)
Rated voltage	690 V
Rated current	Depends on terminal mounting
Insulation class	I
Degree of protection accd. EN 60529	IP66
Enclosure material	Glass-fibre reinforced polyester
Enclosure colour	black

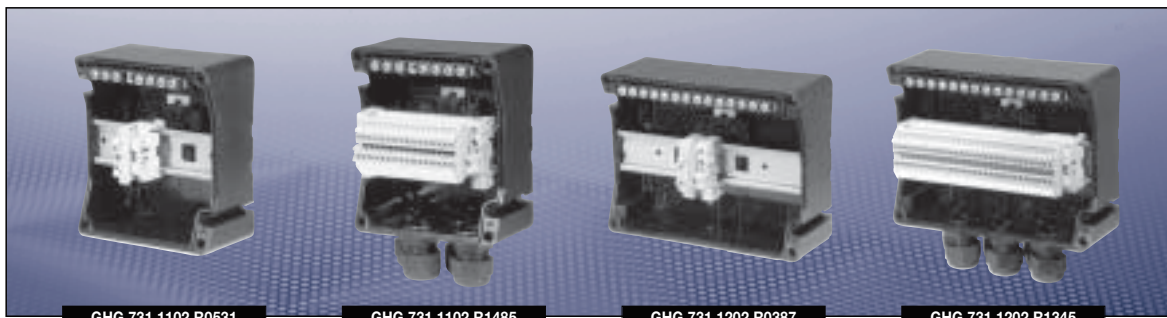
GHG 731 11 up to 16 terminals

Connecting terminals	up to 16 mm ²						
Dimensions (L x W x H)	140 x 120 x 95 mm						
Weight	approx. 0.8 kg						
Max. number drillings/cable glands	M12	M16	M20	M25	M32	M40	M50
up/down	15	8	6	4	2	2	1
Terminal mounting space on the terminal rail	107 mm						
Max. number of terminals acc. to certification	2.5 mm ²	4 mm ²	6 mm ²	10 mm ²	16 mm ²		
	16	14	10	8	8		

GHG 731 12 up to 24 terminals

Connecting terminals	up to 16 mm ²						
Dimensions (L x W x H)	140 x 120 x 95 mm						
Weight	approx. 1.1 kg						
Max. number drillings/cable glands	M12	M16	M20	M25	M32	M40	M50
up/down	24	17	10	6	3	3	2
Length of assembling of the terminal rail	169 mm						
Max. number of terminals acc. to certification	2.5 mm ²	4 mm ²	6 mm ²	10 mm ²	16 mm ²		
	24	24	18	18	14		

Ex-e/Ex-i terminal box



Ordering details

Design	Cable gland	Terminals	Order No.
Type 731 11 up to 16 terminals assembled with screw terminals 2 x 2.5 mm ² + PE/PA-rail 2.5 mm ²			
Ex-e	without drilling	1 x Ex-e*/UK 3 N/7 x PE/PA	GHG 731 1102 R0531
Ex-e	without drilling	14 x Ex-e*/UK 5 N/7 x PE/PA	GHG 731 1102 R1088
Ex-e	4 x M25	16 x Ex-e*/UK 3 N/7 x PE/PA	GHG 731 1102 R1485
Type 731 12 up to 24 terminals assembled with screw terminals 2 x 2.5 mm ² + PE/PA-rail 2.5 mm ²			
Ex-e	without drilling	1 x Ex-e*/UK 3 N/14 x PE/PA	GHG 731 1202 R0387
Ex-e	without drilling	24 x Ex-e*/UK 5 N/14 x PE/PA	GHG 731 1202 R0976
Ex-e	4 x M25	28 x Ex-e*/UK 3 N/14 x PE/PA	GHG 731 1202 R1345

* according to type examination certificate individual extensible

Accessories

Mounting plate for junction box 731 11

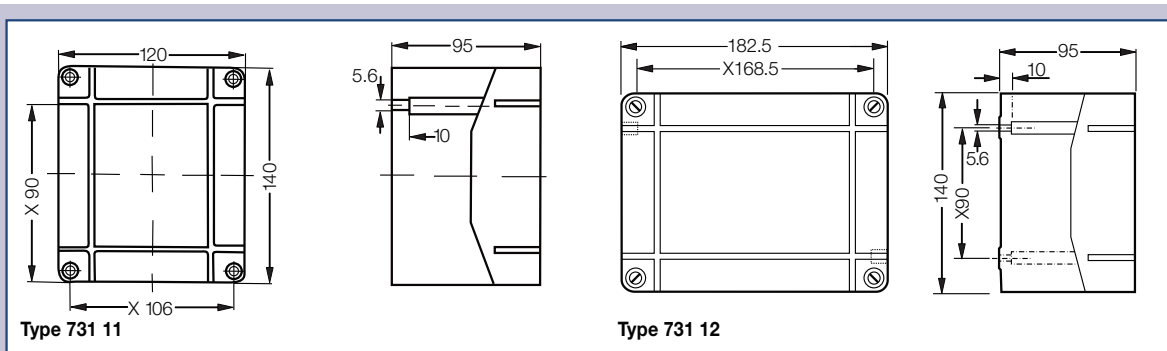
Type	Application	Fixing method	Order No.
Size 2	Wall mounting	screwless mounting	GHG 610 1953 R0104
Size 2	Trellis mounting	screwless mounting	GHG 610 1953 R0106
Size 2	Pipe mounting	screwless mounting	GHG 610 1953 R0105
Protective canopy Size 2	for mounting plate size 2		GHG 610 1955 R0102

Mounting plate for junction box 731 12

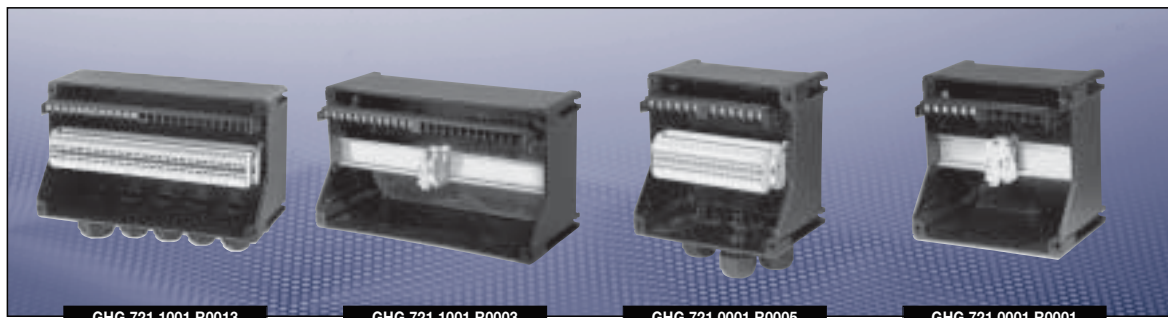
Type	Application	Fixing method	Order No.
Size 2A	Wall mounting	screwless mounting	GHG 610 1953 R0107
Size 2A	Trellis mounting	screwless mounting	GHG 610 1953 R0109
Size 2A	Pipe mounting	screwless mounting	GHG 610 1953 R0108
Protective canopy Size 2A	for mounting plate size 2A		GHG 610 1955 R0103

Details for accessories see page 7.78 pp.

Dimension drawing



Dimensions in mm



Technical data

GHG 721 00 up to 26 terminals | GHG 721 10 up to 48 terminals

Marking to 94/9/EC	II 2 G EEx e II T6 / EEx ia IIC T6 / II 2 D IP66 T 80 °C
EC-Type Examination Certificate	PTB 99 ATEX 1044
IECEX certification of conformity	IECEX BK1 07.0023
Marking accd. to IECEX	Ex ed ia/lb m [ia/lb] IIC T4 – T6 Ex tD A21 IP66 T80 °C
Permissible ambient temperature	–20 °C to +40 °C –55 °C to +55 °C (option)
Rated voltage	690 V
Rated current	Depends on terminal mounting
Insulation class	I
Degree of protection accd. EN 60529	IP66
Enclosure material	Glass-fibre reinforced polyester
Enclosure colour	black

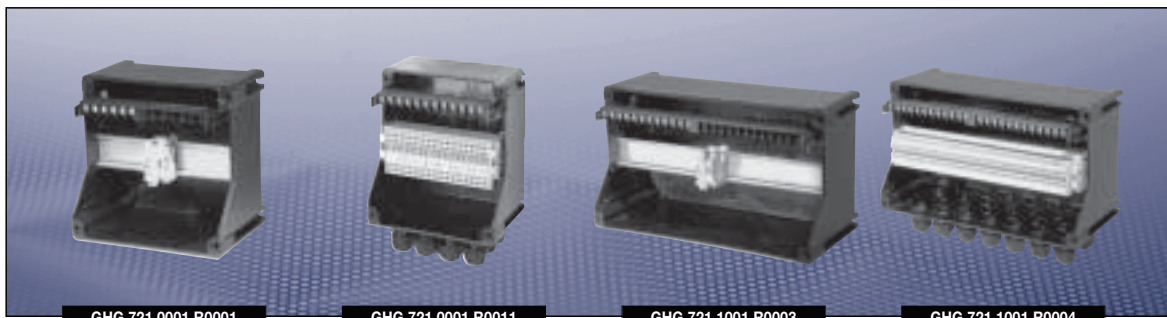
GHG 721 00 up to 26 terminals

Connecting terminals	up to 16 mm ²							
Dimensions (L x W x H)	165 x 165 x 131.5 mm							
Weight	approx. 1.1 kg							
Max. number drillings/cable glands down	M12	M16	M20	M25	M32	M40	M50	M63
	35	20	12	11	6	4	2	2
Flange plastic	11	6	4	3	2	1	1	–
Flange metal	–	–	3	2	1	–	–	–
Terminal mounting space on the terminal rail	140 mm							
Max. number of terminals acc. to certification	2.5 mm ²	4 mm ²	6 mm ²	10 mm ²	16 mm ²			
	26	22	17	13	11			

GHG 721 10 up to 48 terminals

Connecting terminals	up to 16 mm ²							
Dimensions (L x W x H)	165 x 285 x 143 mm							
Weight	approx. 1.7 kg							
Max. number drillings/cable glands down	M12	M16	M20	M25	M32	M40	M50	M63
	75	42	32	21	11	8	4	3
Flange plastic	46	25	20	11	8	4	3	2
Flange metal	–	–	12	9	5	3	3	2
Terminal mounting space on the terminal rail	262 mm							
Max. number of terminals acc. to certification	2.5 mm ²	4 mm ²	6 mm ²	10 mm ²	16 mm ²			
	48	40	30	24	20			

Ex-e/Ex-i terminal box

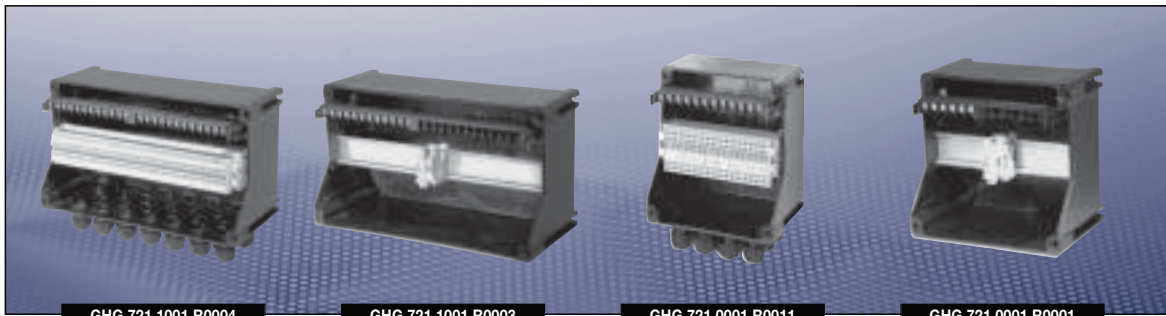


Ordering details

Design	Cable gland	No. of Terminals	Order No.
Type 721 00 up to 26 terminals assembled with screw terminals 2 x 2.5 mm² + PE/PA-rail 2.5 mm²			
Ex-e	1 x M32 for cable Ø 12-21 mm	24 x Ex-e	GHG 721 0001 R0005
	3 x M32 for 4 cable Ø 4.5-7 mm	12 x PE/PA	
Ex-i	1 x M32 for cable Ø 12-21 mm	24 x Ex-i	GHG 721 0001 R0006
	3 x M32 for 4 cable Ø 4.5-7 mm	12 x PE/PA	
Ex-e	1 x M32 for cable Ø 12-21 mm	24 x Ex-e	GHG 721 0001 R0007
	12 x M20 for cable Ø 5.5-13 mm	12 x PE/PA	
Ex-i	1 x M32 for cable Ø 12-21 mm	24 x Ex-i	GHG 721 0001 R0008
	12 x M20 for cable Ø 5.5-13 mm	12 x PE/PA	
Type 721 00 up to 26 terminals assembled with screwless terminals 2 x 2.5 mm² + PE/PA-rail 2.5 mm²			
Ex-i	1 x M32 for cable Ø 12-21 mm	24 x Ex-i	GHG 721 0001 R0010
	3 x M32 for 4 cable Ø 4.5-7 mm	12 x PE/PA	
Ex-e	1 x M32 for cable Ø 12-21 mm	24 x Ex-e	GHG 721 0001 R0011
	12 x M20 for cable Ø 5.5-13 mm	12 x PE/PA	
Ex-i	1 x M32 for cable Ø 12-21 mm	24 x Ex-i	GHG 721 0001 R0012
	12 x M20 for cable Ø 5.5-13 mm	12 x PE/PA	
Type 721 10 up to 48 terminals assembled with screw terminals 2 x 2.5 mm² + PE/PA-rail 2.5 mm²			
Ex-e	without drilling	1 x Ex-e ¹⁾ / 24 x PE	GHG 721 1001 R0003
Type 721 10 up to 48 terminals assembled with screw terminals 2 x 2.5 mm² + PE/PA-rail 2.5 mm²			
Ex-i	1 x M40 for cable Ø 16-28 mm	48 x Ex-i	GHG 721 1001 R0013
	6 x M32 for 4 cable Ø 4.5-7 mm	24 x PE/PA	
Ex-e	1 x M40 for cable Ø 16-28 mm	48 x Ex-e	GHG 721 1001 R0004
	24 x M20 for cable Ø 5.5-13 mm	24 x PE/PA	
Ex-i	1 x M40 for cable Ø 16-28 mm	48 x Ex-i	GHG 721 1001 R0015
	24 x M20 for cable Ø 5.5-13 mm	24 x PE/PA	
Type 721 10 up to 48 terminals assembled with screwless terminals 2 x 2.5 mm² + PE/PA-rail 2.5 mm²			
Ex-i	1 x M40 for cable Ø 16-28 mm	48 x Ex-i	GHG 721 1001 R0017
	6 x M32 for 4 cable Ø 4.5-7 mm	24 x PE/PA	
Ex-e	1 x M40 for cable Ø 16-28 mm	48 x Ex-e	GHG 721 1001 R0018
	24 x M20 for cable Ø 5.5-13 mm	24 x PE/PA	
Ex-i	1 x M40 for cable Ø 16-28 mm	48 x Ex-i	GHG 721 1001 R0019
	24 x M20 for cable Ø 5.5-13 mm	24 x PE/PA	

¹⁾ according to type examination certificate individual extensible

Other types on request



Accessories

Mounting plate for junction box 721 00

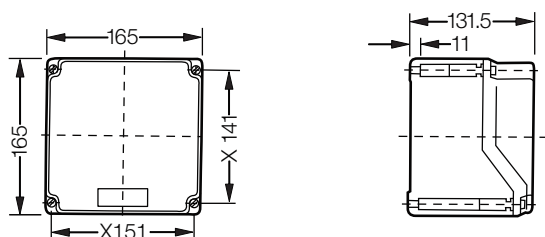
Type	Application	Fixing method	Order No.
Size 2A	Wall mounting	screwless mounting	GHG 610 1953 R0107
Size 2A	Trellis mounting	screwless mounting	GHG 610 1953 R0109
Size 2A	Pipe mounting	screwless mounting	GHG 610 1953 R0108
Protective canopy Size 2A	for mounting plate size 2A		GHG 610 1955 R0103

Mounting plate for junction box 721 10

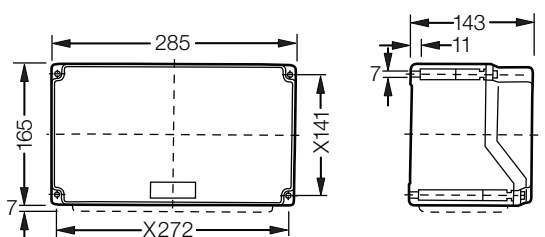
Type	Application	Fixing method	Order No.
Size 3	Wall mounting	screwless mounting	GHG 610 1953 R0107
Size 3	Trellis mounting	screwless mounting	GHG 610 1953 R0109
Size 3	Pipe mounting	screwless mounting	GHG 610 1953 R0108
Protective canopy Size 3	for mounting plate size 3		GHG 610 1955 R0104

Details for accessories see page 7.78

Dimension drawing



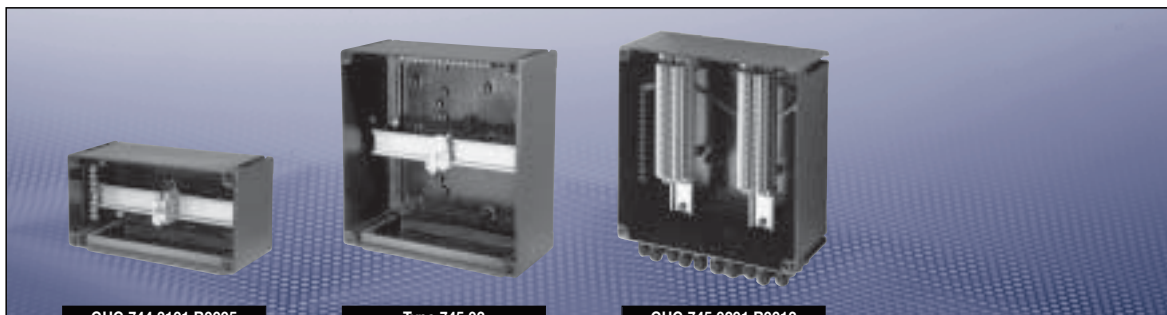
Type 721 00



Type 721 10

Dimensions in mm

Ex-e/Ex-i terminal box



Technical data

GHG 744 01 up to 40 terminals | GHG 745 02 up to 82 terminals

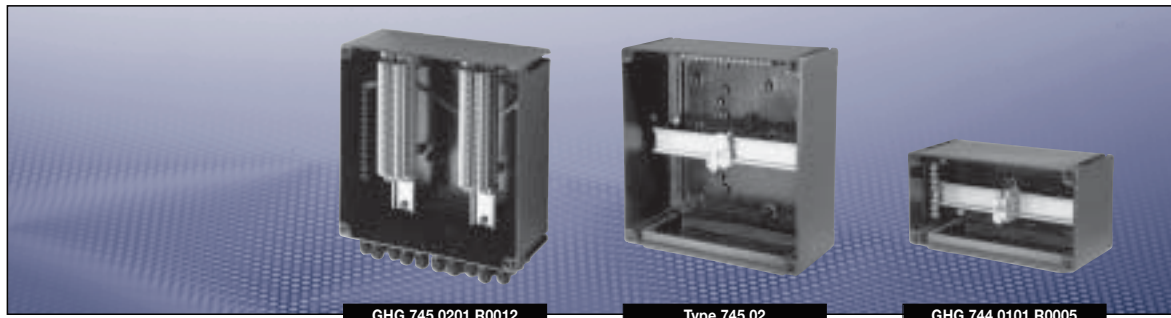
Marking to 94/9/EC	II 2 G EEx e II T6 / EEx ia IIC T6 / II 2 D IP66 T80 °C
EC-Type Examination Certificate	PTB 99 ATEX 1044
IECEX certification of conformity	IECEX BKI 07.0023
Marking accd. to IECEX	Ex ed ia/ib m [ia/ib] IIC T4 – T6 Ex tD A21 IP66 T80 °C
Permissible ambient temperature	–20 °C to +40 °C –55 °C to +55 °C (option)
Rated voltage	690 V
Rated current	Depends on terminal mounting
Insulation class	I
Degree of protection accd. EN 60529	IP66
Enclosure material	Glass-fibre reinforced polyester
Enclosure colour	black

GHG 744 01 up to 40 terminals

Connecting terminals	up to 16 mm ²							
Dimensions (L x W x H)	271 x 134 x 136 mm							
Weight	approx. 1.5 kg							
Max. number drillings/cable glands down	M12	M16	M20	M25	M32	M40	M50	M63
	60	36	26	18	10	7	4	3
Flange plastic	46	25	20	11	8	4	3	2
Flange metal	–	–	11	9	5	3	3	2
Terminal mounting space on the terminal rail	1 x 230 mm							
Max. number of terminals acc. to certification	2.5 mm ²	4 mm ²	6 mm ²	10 mm ²	16 mm ²	25 mm ²	36 mm ²	
	40	33	25	20	17	15	–	

GHG 745 02 up to 82 terminals

Rated current	max. 39 A
Connecting terminals	up to 16 mm ²
Dimensions (L x W x H)	140 x 182.5 x 95 mm
Weight	approx. 1.1 kg



Ordering details

Design	Cable gland	No. of Terminals	Order No.
Type 744 01 up to 40 terminals assembled with screw terminals 2 x 4 mm ² + PE-rail 4 mm ²			
Ex-e	1 x plastic flange down without drilling	1 x Ex-e ¹⁾ 7 x PE	GHG 744 0101 R0005

Type 745 02 up to 82 terminals assembled with screw terminals 2 x 2.5 mm ² + PE/PA-rail 4 mm ²			
Ex-e	1 x plastic flange down without drilling	1 x Ex-e ¹⁾ 14 x PE	GHG 745 0201 R0004

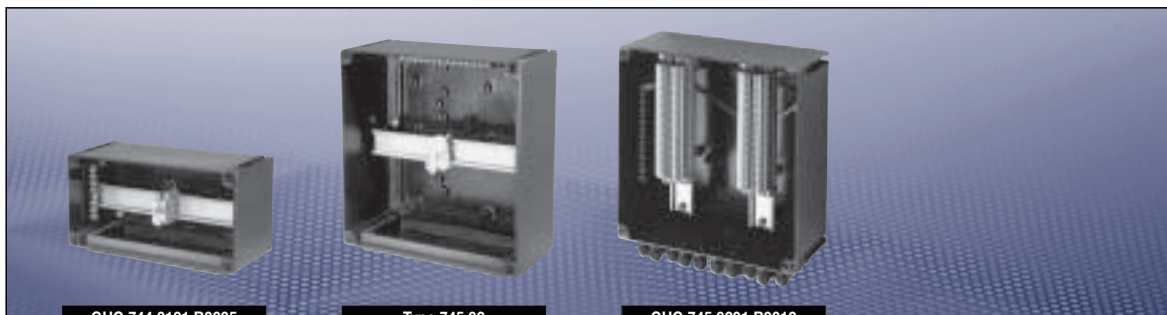
Type 745 02 up to 82 terminals assembled with screw terminals 2 x 2.5 mm ² + PE/PA-rail 4 mm ²			
Ex-i	1 x M40 for cable Ø 22-35 mm	60 x Ex-i	GHG 745 0201 R0012
	8 x M32 for 4 cable Ø 4.5-7 mm	27 x PE/PA	
Ex-e	1 x M40 for cable Ø 22-35 mm	60 x Ex-e	GHG 745 0201 R0013
	30 x M16 for cable Ø 5.5-10 mm	27 x PE/PA	
Ex-i	1 x M40 for cable Ø 22-35 mm	60 x Ex-i	GHG 745 0201 R0014
	30 x M16 for cable Ø 5.5-10 mm	27 x PE/PA	
Ex-e	1 x M40 for cable Ø 22-35 mm	60 x Ex-e	GHG 745 0201 R0015
	24 x M20 for cable Ø 5.5-13 mm	27 x PE/PA	
Ex-i	1 x M40 for cable Ø 22-35 mm	60 x Ex-i	GHG 745 0201 R0021
	24 x M20 for cable Ø 5.5-13 mm	27 x PE/PA	

Type 745 02 up to 82 terminals assembled with screwless terminals 2 x 2.5 mm ² + PE/PA-rail 4 mm ²			
Ex-i	1 x M40 for cable Ø 22-35 mm	60 x Ex-i	GHG 745 0201 R0016
	8 x M32 for 4 cable Ø 4.5-7 mm	27 x PE/PA	
Ex-e	1 x M40 for cable Ø 22-35 mm	60 x Ex-e	GHG 745 0201 R0017
	30 x M16 for cable Ø 5.5-10 mm	27 x PE/PA	
Ex-i	1 x M40 for cable Ø 22-35 mm	60 x Ex-i	GHG 745 0201 R0018
	30 x M16 for cable Ø 5.5-10 mm	27 x PE/PA	
Ex-e	1 x M40 for cable Ø 22-35 mm	60 x Ex-e	GHG 745 0201 R0020
	24 x M20 for cable Ø 5.5-13 mm	27 x PE/PA	
Ex-i	1 x M40 for cable Ø 22-35 mm	60 x Ex-i	GHG 745 0201 R0022
	24 x M20 for cable Ø 5.5-13 mm	27 x PE/PA	

¹⁾ according to type examination certificate individual extensible

Other types on request

Ex-e/Ex-i terminal box



GHG 744 0101 R0005

Type 745 02

GHG 745 0201 R0012

Accessories

Mounting plate for junction box 744 01

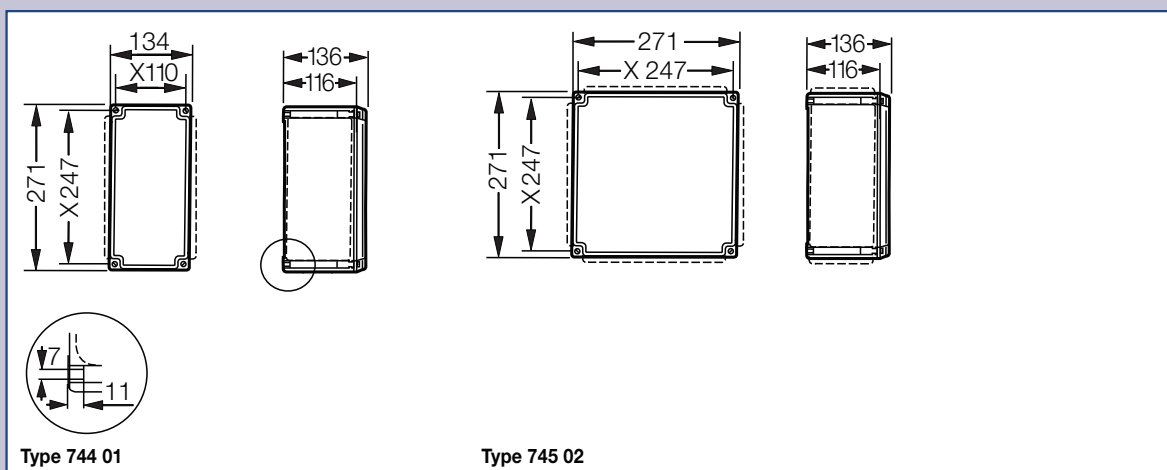
Type	Application	Fixing method	Order No.
Size 3	Wall mounting	screw mounting	GHG 610 1953 R0107
Size 3	Trellis mounting	screw mounting	GHG 610 1953 R0109
Size 3	Pipe mounting	screw mounting	GHG 610 1953 R0108
Protective canopy Size 3	for mounting plate size 3		GHG 610 1955 R0104

Mounting plate for junction box 745 02

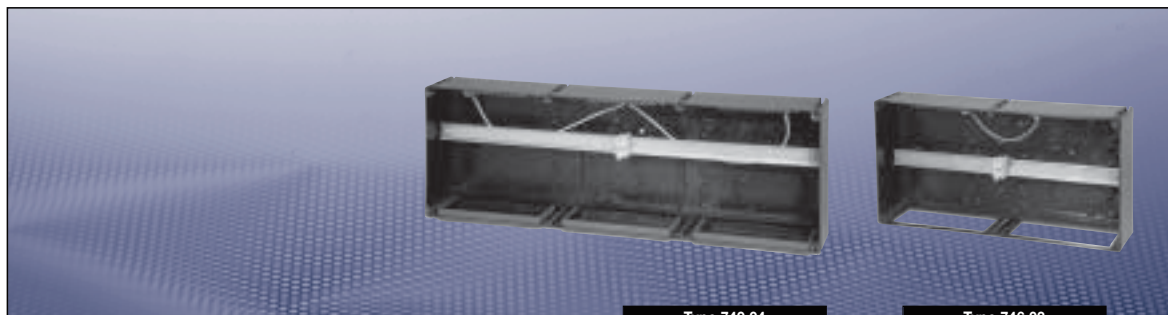
Type	Application	Fixing method	Order No.
Size 3	Pipe mounting	screw mounting on 2 plates	GHG 610 1953 R0108
Protective canopy Size 3	for mounting plate size 3		GHG 610 1955 R0104

Details for accessories see page 7.78 pp.

Dimension drawing



Dimensions in mm



Type 749 04

Type 746 03

Technical data

GHG 746 03 up to 188 terminals | GHG 749 04 up to 296 terminals

Marking to 94/9/EC	Ex II 2 G EEx e II T6 / EEx ia IIC T6 / Ex II 2 D IP66 T 80 °C
EC-Type Examination Certificate	PTB 99 ATEX 1044
IECEX certificate of conformity	IECEX BK1 07.0034
Marking accd. to IECEX	Ex ed ia/lb m [ia/lb] IIC T4 – T6 Ex tD A21 IP66 T80 °C
Permissible ambient temperature	–20 °C to +40 °C –55 °C to +55 °C (option)
Rated voltage	690 V
Rated current	Depends on terminal mounting
Insulation class	I
Degree of protection accd. EN 60529	IP66
Enclosure material	Glass-fibre reinforced polyester
Enclosure colour	black

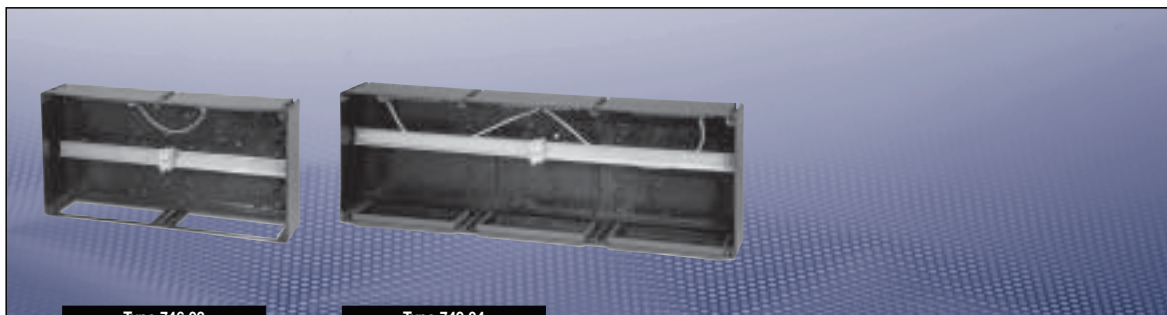
GHG 746 03 up to 188 terminals

Connecting terminals	up to 240 mm ²							
Dimensions (L x W x H)	544 x 271 x 136 mm							
Weight	approx. 4.2 kg							
Max. number drillings/cable glands down	M12 120	M16 72	M20 52	M25 36	M32 20	M40 14	M50 8	M63 6
Flange plastic	46	25	20	11	8	4	3	2
Flange metal	–	–	11	9	5	3	3	2
Terminal mounting space on the terminal rail	horiz. 2 x 510 mm / vert. 4 x 230 mm							
Max. number of terminals acc. to certification	2.5 mm ² 2 x 94	4 mm ² 2 x 78	6 mm ² 2 x 59	10 mm ² 2 x 47	16 mm ² 40	25 mm ² 40	35 mm ² 32	

GHG 749 04 up to 296 terminals

Connecting terminals	up to 240 mm ²							
Dimensions (L x W x H)	817 x 271 x 136 mm							
Weight	approx. 5.8 kg							
Max. number drillings/cable glands down	M12 180	M16 108	M20 78	M25 54	M32 30	M40 21	M50 12	M63 9
Flange plastic	46	25	20	11	8	4	3	2
Flange metal	–	–	11	9	5	3	3	2
Terminal mounting space on the terminal rail	horiz. 2 x 795 mm / vert. 6 x 230 mm							
Max. number of terminals acc. to certification	2.5 mm ² 2 x 148	4 mm ² 2 x 124	6 mm ² 2 x 94	10 mm ² 2 x 75	16 mm ² 63	25 mm ² 63	35 mm ² 51	

Ex-e/Ex-i terminal box

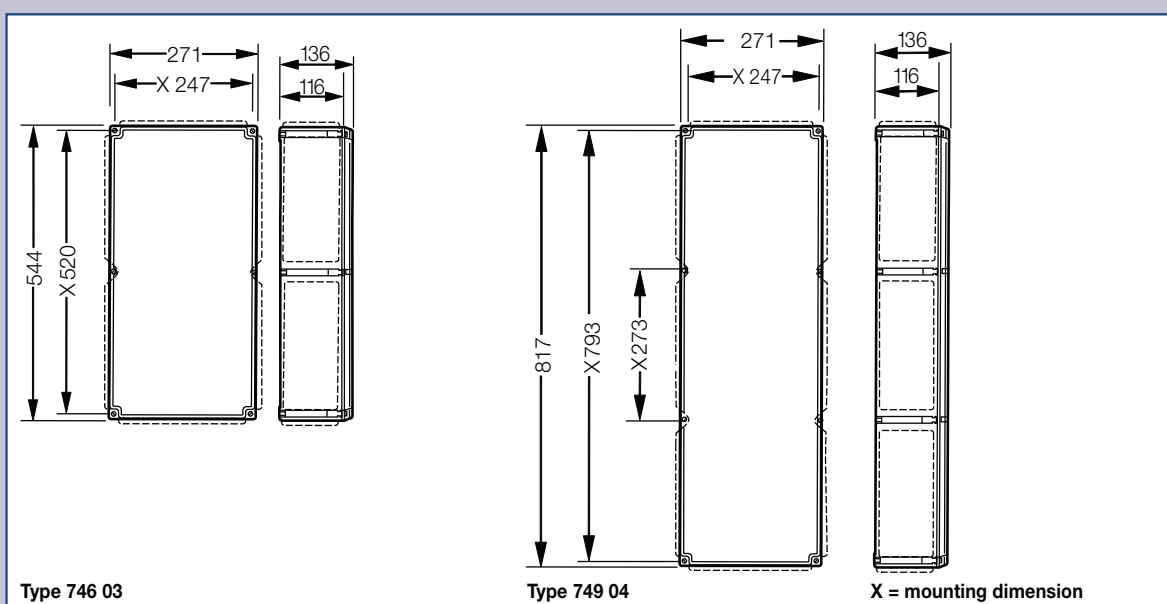


Ordering details

Design	Cable gland	No. of Terminals	Order No.
Type 746 03 up to 188 terminals assembled with screw terminals 2 x 4 mm ² + PE-rail 4 mm ²			
Ex-e	2 x plastic flange down without drilling	1 x Ex-e ¹⁾ 2 x 14 x PE	GHG 746 0301 R0002
Type 749 04 up to 296 terminals assembled with screw terminals 2 x 2.5 mm ² + PE-rail 4 mm ²			
Ex-e	3 x plastic flange down without drilling	1 x Ex-e ¹⁾ 3 x 14 x PE	GHG 749 0401 R0001

¹⁾ according to type examination certificate individual extensible
Other types on request

Dimension drawing



Dimensions in mm

E X - T E R M I N A L B O X E S

Light alloy metal design for Zone 1

The new sturdy CEAG terminal boxes made of a light alloy metal are used to distribute and conduct electricity in hazardous explosive areas of the Zones 1, 2, 21 and 22. Optionally, all of the modular terminals up to 35 mm² pursuant to EN 60079-7 are available in these terminal boxes.

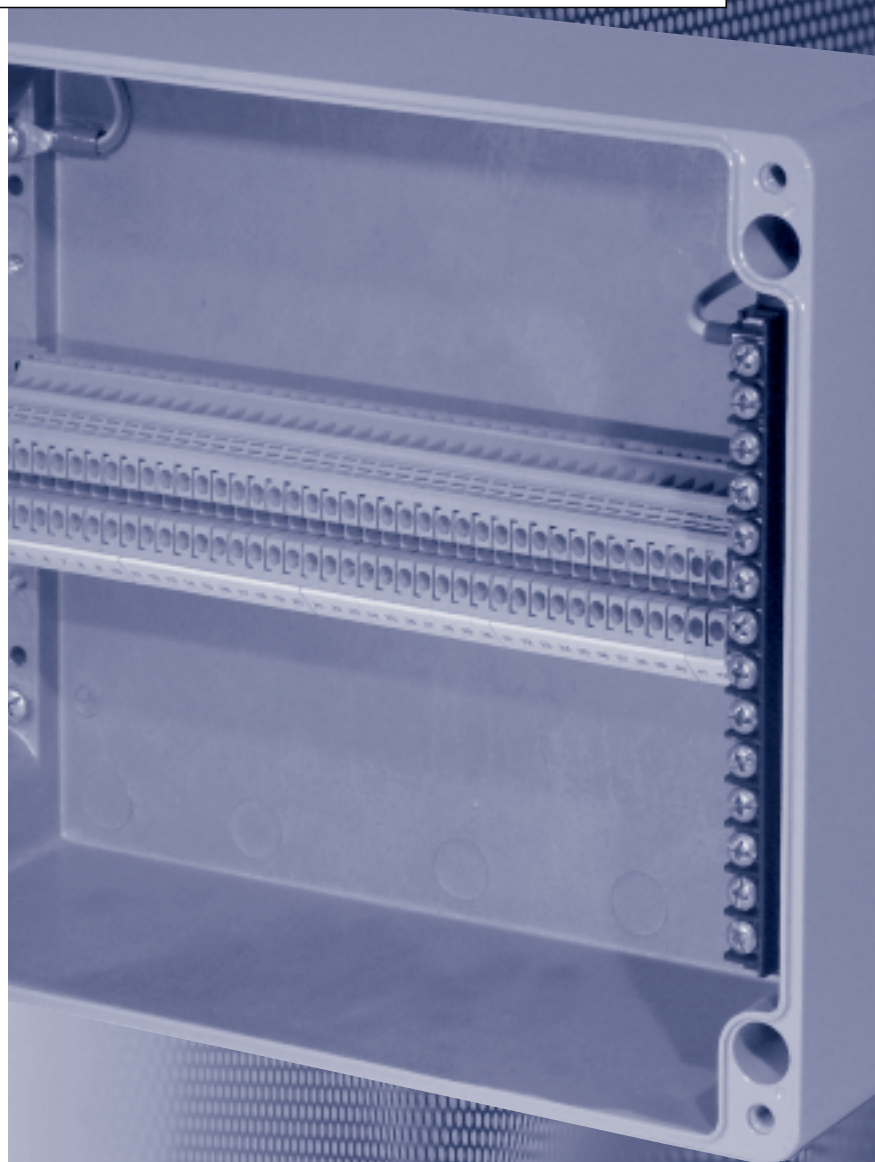
Variable equipment with various cable and line ducts pursuant to customer specification can be realised with the terminal boxes made of light alloy metal.

Drilled holes, cable and line ducts, through which no lines are conducted, should be closed with certified threaded stoppers. High chemical resistance of the housing is ensured by the use of impact-resistant plastic powder coating.

Covered screws and all outside and inside metallic parts are made of stainless steel.

The terminal boxes made of light metal have an outside earthing connection.

Internationally approved.



Mechanical, chemical and thermal resistance

Plastic powder coating

Can be equipped individually, Impact-resistant

To make the choice of the right terminal boxes or branching boxes for your application, the tables on this page contain the basic data. You can use these tables to identify and configure your terminal boxes.

In the table of the maximum number of terminals, the information is based on the rated current of the terminal concerned. If the current per terminal is below the rated current,

the number can be interpreted on the maximum length of the terminal strip that can be equipped.

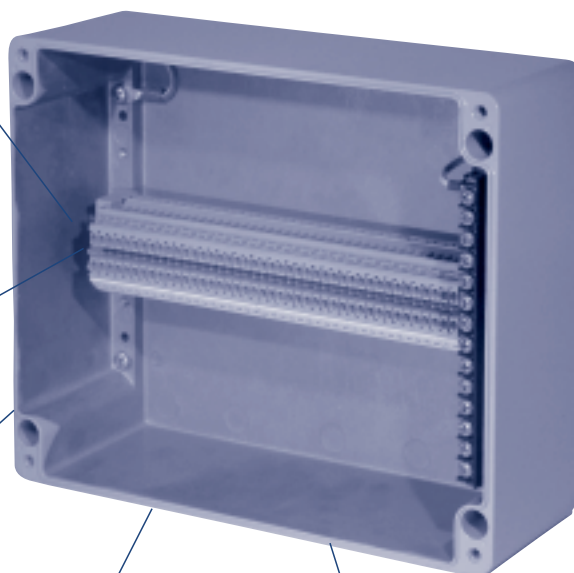
On the basis of the maximum drilled and the faulty circuit diameter of the cable and line duct, you can select the relevant terminal box by means of the number of ducts that you need.

Maximum number of terminals acc. to certification

Type	Terminal cross-section Ø in mm²						
	2.5	4	6	10	16	25	35
GHG 793 0101	6	5	4	–	–	–	–
GHG 723 0001	33	27	20	16	15	–	–
GHG 723 1001	88	72	54	44	40	15	15
GHG 723 2001	136	112	84	68	60	22	22

Terminal rail

Type	Rail length
GHG 793 0101	46 mm
GHG 723 0001	185 mm
GHG 723 1001	2 x 242 mm
GHG 723 2001	2 x 362 mm



Dimensions

Type	Width	x	Height	x	Depth
GHG 793 0101	130 mm	x	82 mm	x	72 mm
GHG 723 0001	220 mm	x	120 mm	x	81 mm
GHG 723 1001	280 mm	x	230 mm	x	111 mm
GHG 723 2001	400 mm	x	230 mm	x	111 mm

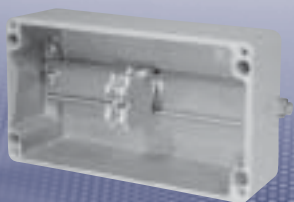
Space required for wire and cable entries

Type	Interference Plastic	Diameter Metal
M12	Ø 19 mm	Ø 21 mm
M16	Ø 25 mm	Ø 21 mm
M20	Ø 31 mm	Ø 26.5 mm
M25	Ø 37 mm	Ø 33 mm
M32	Ø 46 mm	Ø 45.1 mm
M40	Ø 56 mm	Ø 53 mm
M50	Ø 68 mm	Ø 60.5 mm
M63	Ø 84 mm	Ø 80 mm

max. drilled surface

Type	Width x Depth
GHG 793 0101	80 mm x 45 mm
GHG 723 0001	180 mm x 53 mm
GHG 723 1001	232 mm x 83 mm
GHG 723 2001	352 mm x 80 mm

Ex-e/Ex-i terminal box



GHG 793 0101 R0003

Technical data

Type 793 01 up to 11 terminals

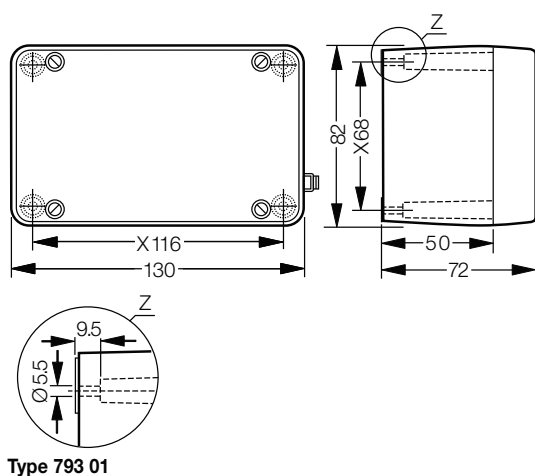
Marking to 94/9/EC	Ⓔ II 2 G EEx e II T6 / EEx ia IIC T6 / Ⓔ II 2 D IP66 T80 °C						
EC-Type Examination Certificate	PTB 00 ATEX 3108						
IECEX certificate of conformity	IECEX BKI 07.0034						
Marking accd. to IECEx	Ex e II T6 / Ex ia IIC T6 Ex tD A21 IP66 T58 °C						
Rated voltage	up to 690 V						
Rated current	depends on terminal mounting						
Degree of EN 60529	IP66						
Enclosure material	light alloy die-casting (AlSi)						
Terminal cross section	up to 6 mm ²						
Weight	approx. 0.68 kg						
Max. number drillings/cable glands down	M16	M20	M25	M32	M40	M50	M63
	5	2	2	1	–	–	–
Length of assembling of the terminal rail	100 mm						
Max. number of terminals acc. to certification	2.5 mm ²		4 mm ²		6 mm ²		
	16		14		10		

Ordering details

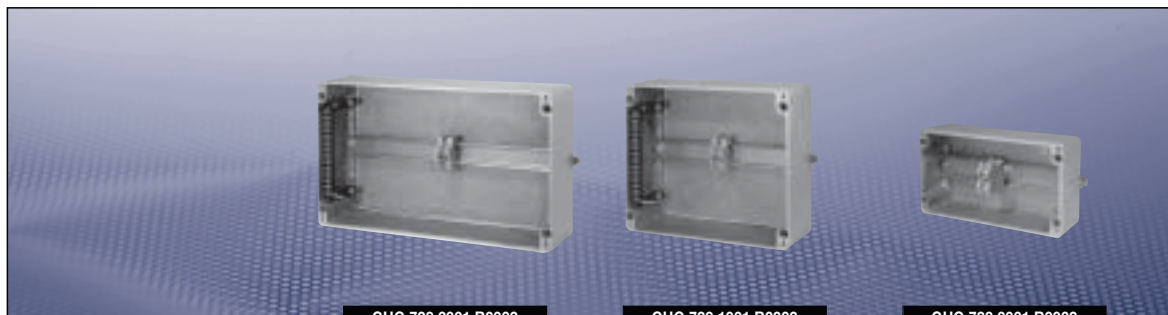
Design	Cable gland	No. of Terminals	Order No.
Typ 793 01 up to 11 terminals with screw terminals 2 x 2.5 mm ² + PE-terminal 2 x 4 mm ²			
Ex-e	without drilling	1 x Ex-e*/1 x PE	GHG 793 0101 R0003

* according to type examination certificate individual open ended

Dimension drawing



Dimensions in mm



GHG 723 2001 R0002

GHG 723 1001 R0002

GHG 723 0001 R0002

Technical data

Type 723 00 | 723 10 | 723 20 up to 96 terminals

Marking to 94/9/EC	II 2 G EEx e II T6 / EEx ia IIC T6 / II 2 D IP66 T80 °C
EC-Type Examination Certificate	PTB 99 ATEX 1044
IECEx certification of conformity	IECEx BKI 07.0034
Marking accd. to IECEx	Ex ed ia/lb [ia/lb] IIC T4 – T6 Ex tD A21 IP66 T80 °C
Rated voltage	up to 690 V
Rated current	depends on terminal mounting
Degree of EN 60529	IP66
Enclosure material	light alloy die-casting (AlSi)

Type 723 00 up to 24 terminals

Terminal cross section	max. 35 mm ²						
Weight	approx. 1.41 kg						
Max. number drillings/cable glands down	M16	M20	M25	M32	M40	M50	
	8	4	3	–	–	–	
Terminal mounting space on the terminal rail	1 x 185 mm						
Max. number of terminals acc. to certification	2.5 mm ²	4 mm ²	6 mm ²	10 mm ²	16 mm ²	25 mm ²	35 mm ²
	24	24	18	18	14	–	–

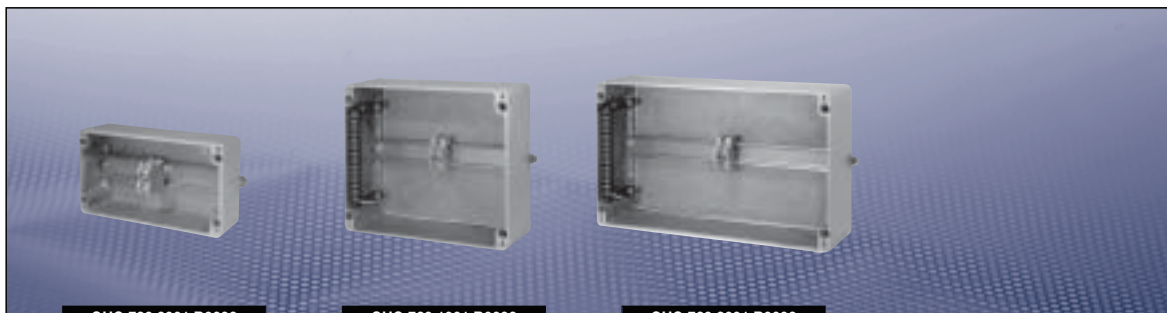
Type 723 10 up to 82 terminals

Terminal cross section	max. 50 mm²						
Weight	approx. 3.84 kg						
Max. number drillings/cable glands down	M16	M20	M25	M32	M40	M50	
	22	10	7	4	3	2	
Terminal mounting space on the terminal rail	2 x 242 mm						
Max. number of terminals acc. to certification	2.5 mm²	4 mm²	6 mm²	10 mm²	16 mm²	25 mm²	35 mm²
	2 x 41	2 x 34	2 x 26	2 x 20	1 x 17	1 x 17	1 x 14

Type 723 20 up to 96 terminals

Terminal cross section	max. 95 mm²						
Weight	approx. 4.87 kg						
Max. number drillings/cable glands down	M16	M20	M25	M32	M40	M50	
	30	18	10	6	5	4	
Terminal mounting space on the terminal rail	3 x 362 mm						
Max. number of terminals acc. to certification	2.5 mm²	4 mm²	6 mm²	10 mm²	16 mm²	25 mm²	35 mm²
	2 x 48	2 x 48	2 x 36	2 x 36	1 x 28	1 x 23	1 x 22

Ex-e/Ex-i terminal box



GHG 723 0001 R0002

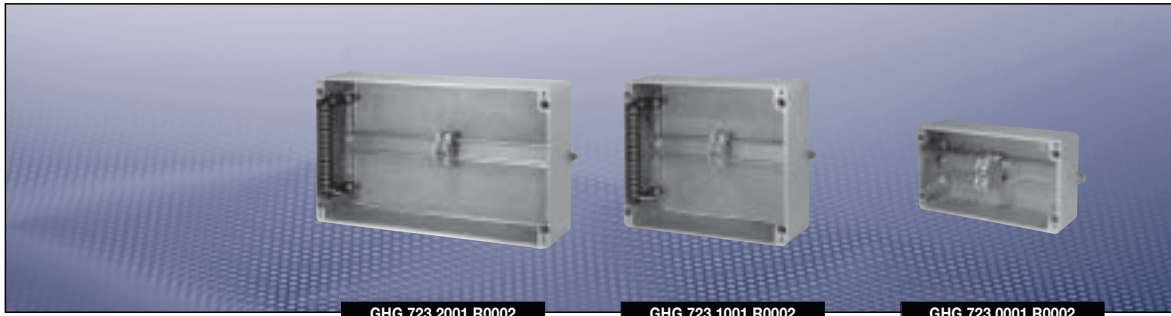
GHG 723 1001 R0002

GHG 723 2001 R0002

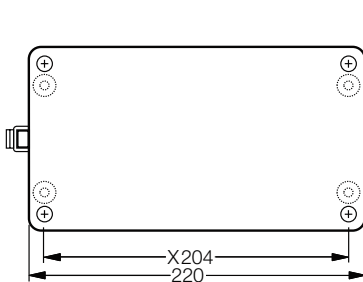
Ordering details

Design	Cable gland	No. of Terminals	Order No.
Type 723 00 mounted with screw terminals 2 x 2.5 mm ² + PE-terminal 4 mm ²			
Ex-e	without drilling	1 x Ex-e ¹⁾ /1 x PE	GHG 723 0001 R0002
Type 723 10 mounted with screw terminals 2 x 2.5 mm ² + PE-terminal 4 mm ²			
Ex-e	without drilling	1 x Ex-e ¹⁾ /14 x PE	GHG 723 1001 R0002
Type 723 20 mounted with screw terminals 2 x 2.5 mm ² + PE-terminal 4 mm ²			
Ex-e	without drilling	1 x Ex-e ¹⁾ /14 x PE	GHG 723 2001 R0002

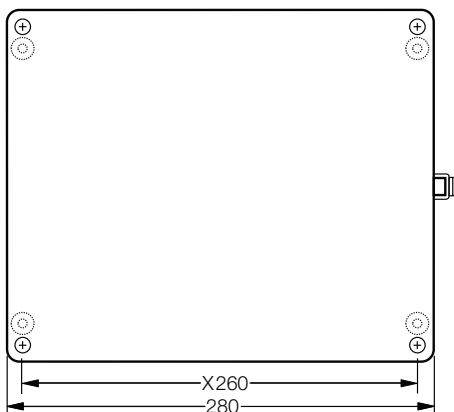
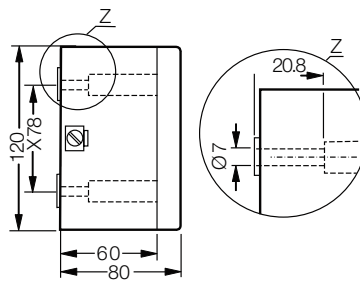
¹⁾ according to type examination certificate individual extensible



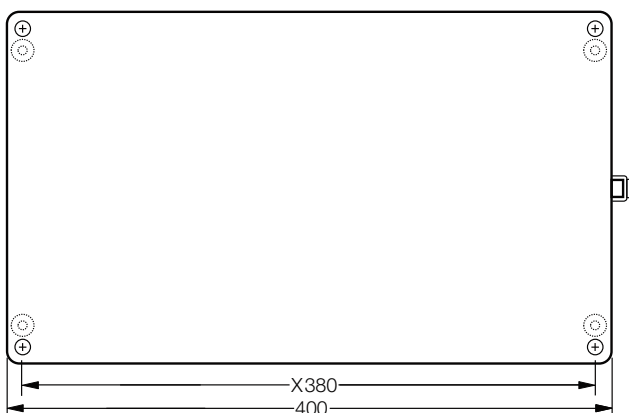
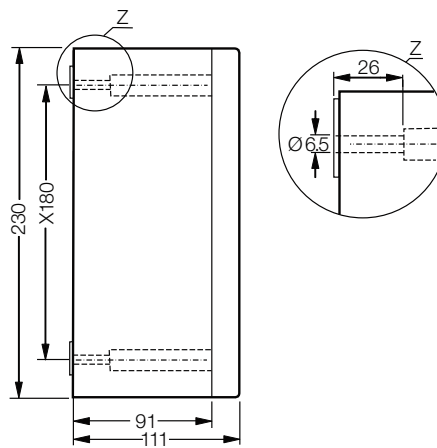
Dimension drawing



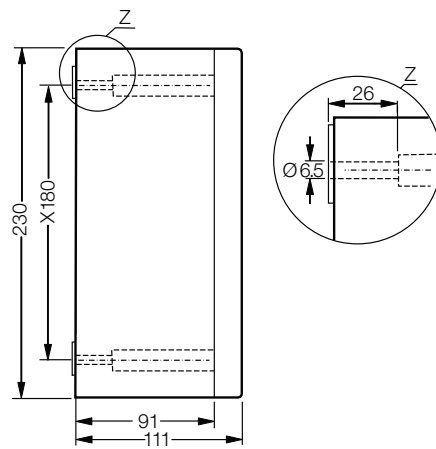
Type 723 00



Type 723 10



Type 723 20



X = mounting dimension

Dimensions in mm

E X - T E R M I N A L B O X E S

Light metal design, explosion-proof for Zone 1

Series C30 and C31 explosion-protected terminal boxes made of light metal are used to distribute and conduct electricity in areas of Zone 1, 2, 21 and 22 at no risk of explosion. Optionally, they are equipped with an assembly plate with pillar terminals or with terminals on an assembly plate with a terminal strip for individual equipment. The connection cross-section can vary by up to 6 mm² or up to 10 mm².

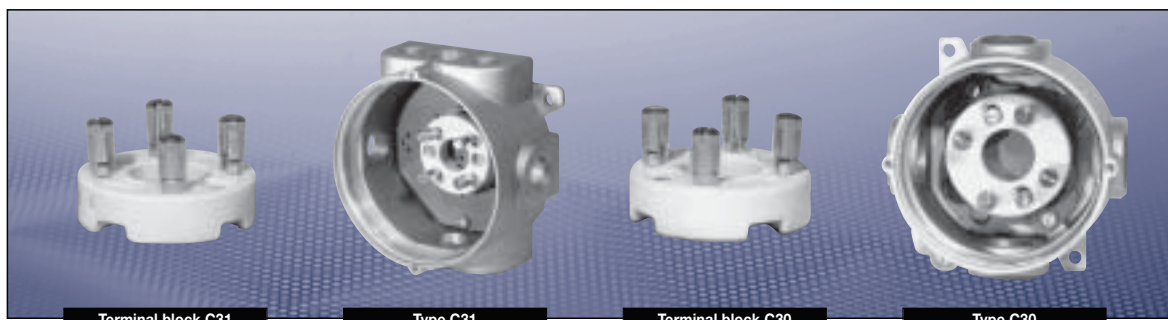
A high "IP degree of protection" allows universal use in areas at risk of explosion. Optionally, the cables can be introduced into the terminal boxes via conduits or explosion-proof screw connections. Drilled holes through which no cables are conducted should be closed with certified threaded stoppers.

The light metal terminal boxes have an outside earthing connection.



High mechanical, chemical and thermal resistance

High degree of protection IP67



Technical data

Type C30 | Type C31

Marking to 94/9/EC	Ⓔ II 2 G EEx d IIC T6 / Ⓔ II 2 D IP67 T 85 °C
EC-Type Examination Certificate	LOM 02 ATEX 2037 X
IECEX Certificate of Conformity	IECEX BK1 07.0026
Marking accd. to IECEX	Ex d IIC T6 Ex tD A21 IP67 T85 °C
Permissible ambient temperature	-20 °C to +55 °C
Rated voltage	690 V
Rated current (max.)	C30: 40 A / C31: 61 A
Insulation class	I
Degree of protection accd. EN 60529	IP67
Enclosure material	light metal
Enclosure colour	natural finish

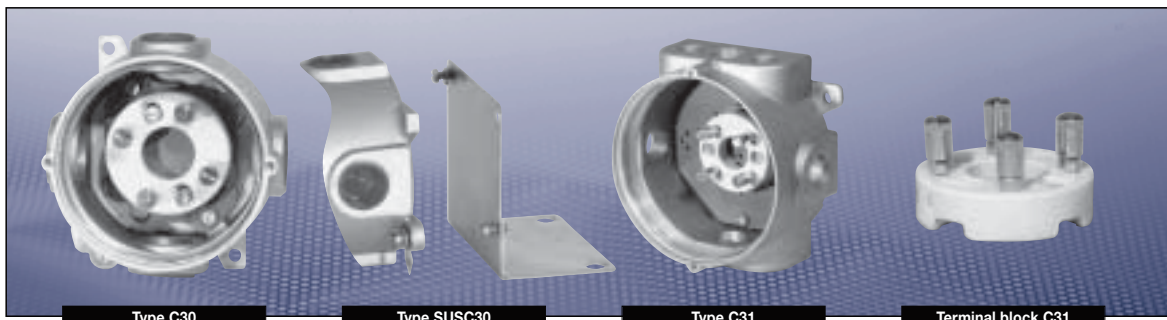
Type C30

Connecting terminals	up to 6 mm ²
Weight	approx. 0.8 kg (empty)
Max. number of drillings/cable glands	4
Terminal mounting space on the terminal rail	45 mm

Type C31

Connecting terminals	up to 10 mm ²
Weight	approx. 1.3 kg (empty)
Max. number of drillings/cable glands	8
Terminal mounting space on the terminal rail	82 mm

Ex-d terminal box

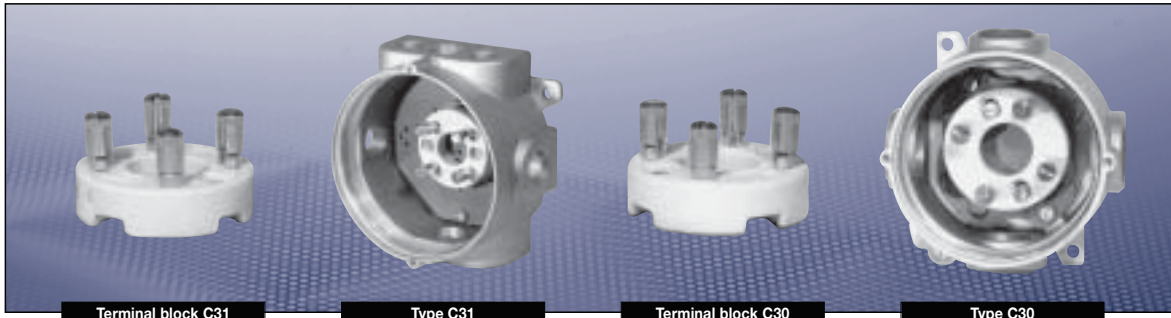


Ordering details

Type	Thread ISO 7/1 ¹⁾	No. of Terminals	Order No.
Type C30			
C30 T1	3 x 1/2"	–	NOR 000 001 151 181
C30 T2	3 x 3/4"	–	NOR 000 001 151 199
C30 X1	4 x 1/2"	–	NOR 000 001 151 205
C30 X2	4 x 3/4"	–	NOR 000 001 151 214
Build-in components type C30			
BC 30	Mounting plate with pillar terminals 4 x 4 mm ²	4 x Ex-e*	NOR 000 001 151 222
PBPD 30	Terminal rail DIN 46877	Mounting rail	NOR 000 000 115 314
PC 30	Mounting plate without terminals	–	NOR 000 000 115 302
Mounting angel for housing fixing type C30			
SUSC 30			NOR 000 000 115 311
Type C31			
C31 T1	3 x 1/2"	–	NOR 000 111 150 001
C31 T2	3 x 3/4"	–	NOR 000 111 150 002
C31 T3	3 x 1"	–	NOR 000 111 150 003
C31 X1	4 x 1/2"	–	NOR 000 111 150 004
C31 X2	4 x 3/4"	–	NOR 000 111 150 005
C31 X3	4 x 1"	–	NOR 000 111 150 006
Build-in components type C31			
BC31	Mounting plate with pillar terminals	4 x 4 mm ² *	NOR 000 111 150 009
P C31	Mounting plate without terminals	–	NOR 000 000 115 306
PBPD 31	Terminal rail DIN 46877	–	NOR 000 000 115 015

* 4 x 4 mm² multi-wire or 2 x 6 mm² solid

¹⁾ Other threads on request



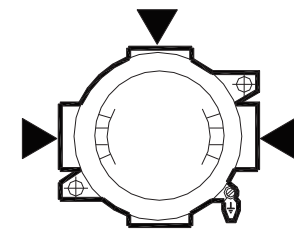
Terminal block C31

Type C31

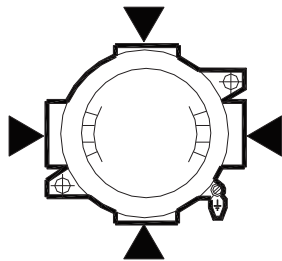
Terminal block C30

Type C30

Dimension drawing

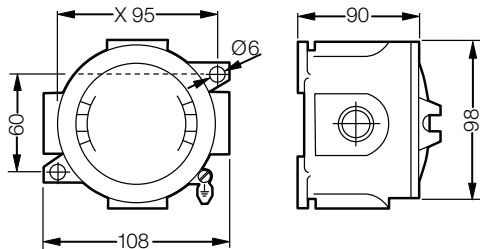


Type C30 T

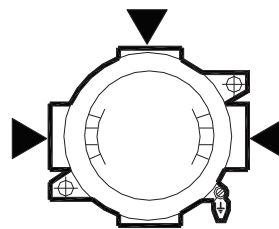


Thread

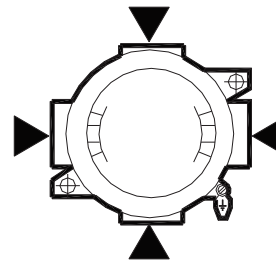
Type C30 X



X = mounting dimensions

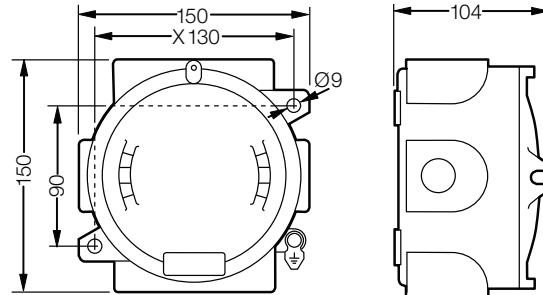


Type C31 T



Thread

Type C31 X



Dimensions in mm

EX - TERMINAL ENCLOSURES

Stainless steel version for Zone 1

The new explosion-protected terminal enclosures made of stainless steel (AISI 316 L) with ground surfaces was developed for instrumentation and control installations using the Ex-e and Ex-i technologies.

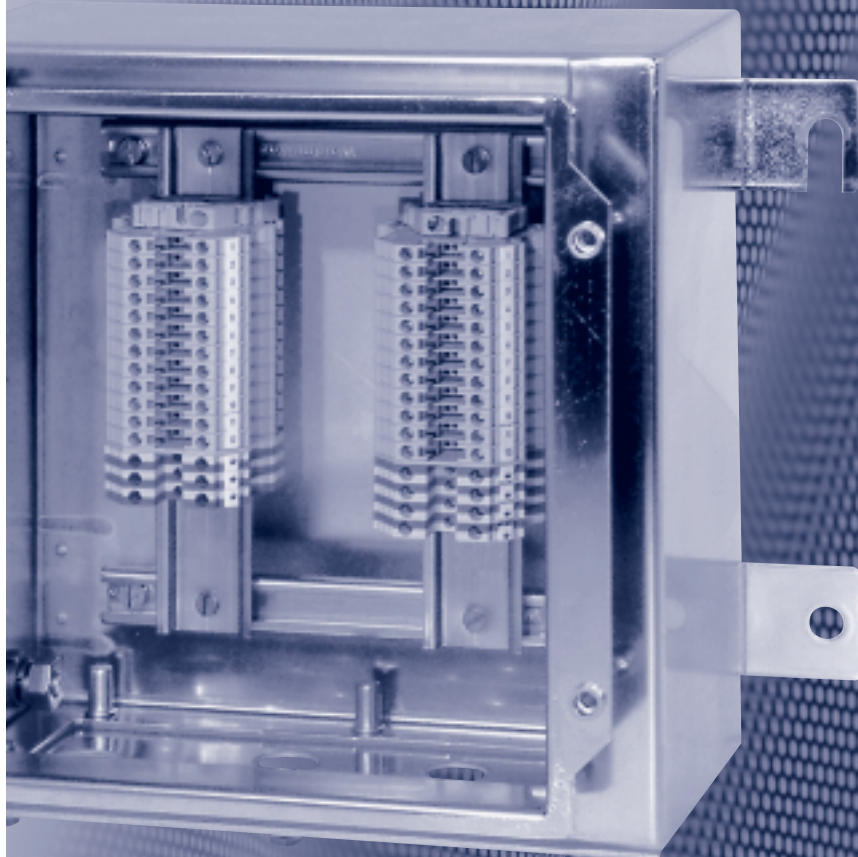
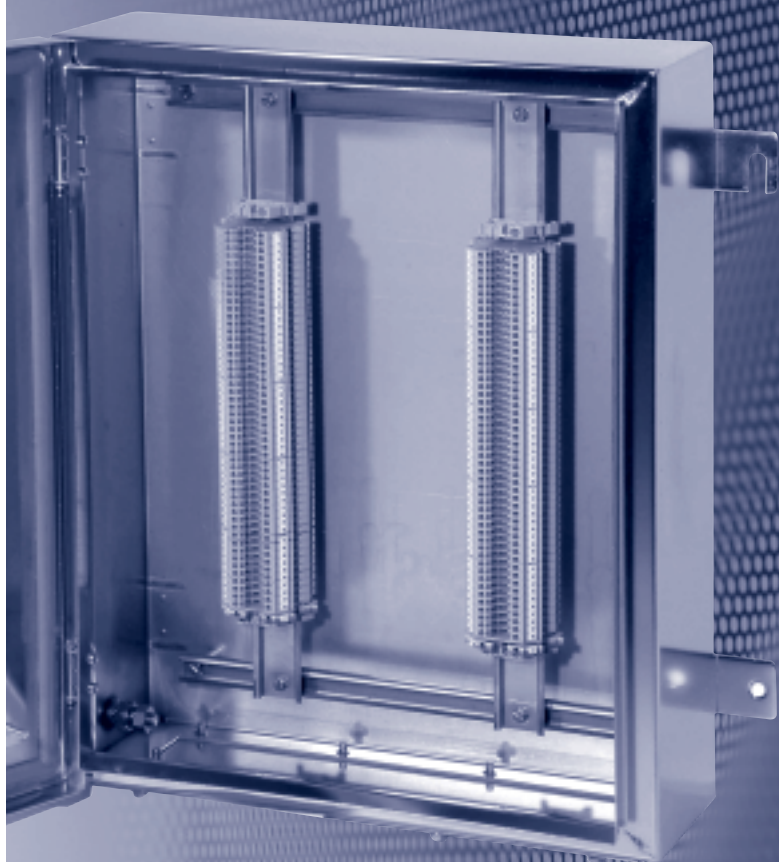
They act as a link between the main cable to the control room and the branch cables into the field. In addition to this, they may also be used for the direct connection of actuators and sensors. Here the metal cable glands also allow electromagnetically compatible connection methods.

The robust design of the stainless steel terminal boxes provides a high degree of safety for offshore applications and in places where particularly adverse chemical, mechanical and climatic operating conditions prevail within the hazardous area.

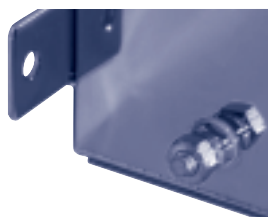
Three terminal enclosures series in various sizes are available for accommodating up to terminals. The choice between screw and tension-spring (screwless) terminals for single and multi-wire conductors makes it possible for the installation engineers to select the type of connection that is most suitable for the respective application. Two separate PE rails are available for the separate connection of PE/PA and screened cables. Due to the optimized design, there is a large drilling area for fitting a large number of metal glands. Unused entry holes must be sealed safely with certified blanking plugs. As an alternative, a screw-on metal flange can be used for a wide variety of applications.

International approvals

- Stainless steel AISI 316 L, electro-polished surface
- Highly resistant silicone seals
- Metal flanges available on request
- Safety standard IP66
- PE/PA rails



This external & internal brass earth/ground stud assembly enables rapid and reliable protective earth/ground connection, which is mounted on the side of the enclosure for ease of access.



The enclosure is mounted by four heavy-duty 3 mm thick surface welded and stainless steel lugs, with slotted bottom lugs for ease of mounting. These provide a secure, reliable means of mounting the enclosure



To make the choice of the right terminal boxes or branching boxes for your application, the tables on this page contain the basic data. You can use these tables to identify and configure your terminal boxes.

In the table of the maximum number of terminals, the information is based on the rated current of the terminal concerned. If the current per terminal is below the rated current,

the number can be interpreted on the maximum length of the terminal strip that can be equipped.

On the basis of the maximum drilled and the interference diameter of the cable and line duct, you can select the relevant terminal box by means of the number of ducts that you need.

Next Range

Size	Max. terminal capacity (2.5 mm ²)	Max. entry guide (M16) Top-Bottom/ Left/Right
22/15/13	1 x 21	6/6/6
26/26/16	2 x 27	20/9/9
26/26/20	2 x 27	28/18/18
30/30/16	2 x 36	26/20/26
30/30/20	2 x 36	34/28/34
38/26/16	2 x 51	20/20/20
38/26/20	2 x 51	28/28/28
45/38/16	2 x 67	29/29/29
45/38/20	2 x 67	46/46/46
48/48/20	3 x 71	53/46/53
50/35/20	3 x 75	40/40/40
62/45/20	4 x 99	53/53/53
74/55/20	5 x 124	60/60/60
76/50/20	3 x 128	53/82/82
86/64/20	6 x 147	82/80/80
91/61/20	5 x 158	72/72/72
98/74/20	6 x 171	80/106/106
30/35/20	3 x 36	40/28/34
38/45/20	4 x 36	53/28/28
45/55/20	5 x 67	60/44/44
50/64/20	6 x 75	82/53/53

Ex-Cell Range

Size	Max. terminal capacity (2.5 mm ²)	Max. entry guide (M16) Top-Bottom/ Left/Right
23/15/13	1 x 21	6/6/6
26/26/15	1 x 27	21/11/11
30/20/15	1 x 36	15/15/15
30/30/15	2 x 36	26/15/15
30/30/20	2 x 36	34/28/34
40/30/15	2 x 56	26/26/26
40/30/20	2 x 56	34/34/34
40/40/15	3 x 56	35/26/26
40/40/20	3 x 56	44/34/34
40/50/15	4 x 56	48/26/26
40/50/20	4 x 56	62/34/34
50/40/15	3 x 77	35/35/35
50/40/20	3 x 77	44/44/44
50/50/15	4 x 77	48/35/35
50/50/20	4 x 77	62/44/44
50/60/20	6 x 77	78/44/44
60/40/15	3 x 97	35/48/48
60/40/20	3 x 97	44/62/62
60/50/15	4 x 97	48/48/48
60/50/20	4 x 97	62/62/62
60/60/15	6 x 97	59/48/48
60/60/20	6 x 97	78/62/62
60/76/20	7 x 97	100/62/62
76/50/20	4 x 128	62/78/78
76/60/20	6 x 128	78/78/78
76/76/20	7 x 128	100/78/78

STB Range

Size	Max. terminal capacity (2.5 mm ²)	Max. entry guide (M16) Top-Bottom/ Left/Right
12/12/08	1 x 8	7/7/4
15/12/08	1 x 13	7/9/6
15/15/09	1 x 13	9/9/6
19/15/09	1 x 21	9/12/8
19/19/10	1 x 21	18/18/14
25/25/12	2 x 31	32/32/26
16/38/12	1 x 55	50/20/44
25/40/13	3 x 31	54/32/48
38/38/22	3 x 42	100/100/88
40/60/22	3 x 46	164/108/92
60/40/22	5 x 79	108/164/152

GHG 74.2 Range

Size	Max. terminal capacity (2.5 mm ²)
744 21	1 x 230
745 22	2 x 230
746 23	2 x 510
749 24	2 x 715

EX - T E R M I N A L E N C L O S U R E S

Stainless Steel Version for Zone 1

NEXT

The **NEXT** enclosure has been specifically designed for installation in locations with aggressively hostile environmental conditions. These include such locations as petrochemical hazardous areas, pharmaceutical, food process and utility applications.

Manufactured from high quality stainless steel that is electro-polished for a highly corrosion resistant „Chromium enriched“ surface.

This multi certified enclosure is available in a comprehensive range of 17 different sizes and two depths, each with the facility for many configuration possibilities for a multitude of applications.

Using the highest quality materials, unique design benefits and precision manufacturing the **NEXT** range is the benchmark in heavy-duty gauge enclosures of its class with a 25 year design life.

An integral drainage channel prevents liquids or other solids contaminants from running in or falling into the enclosure when the door is opened, and to minimise gasket path contamination.

The high integrity „one piece“ sealing gasket for superior ingress protection (IP) of 66 and excellent recovery and re-sealing properties for continuous environmental protection.

An option for the mounting of up to four 3 mm thick gland-plates on each side in 4 possible combinations of 1, 2, 3 or 4 gland-plates. All sealed to IP66 by a high integrity Chloroprene gasket and secured by stainless steel bolts into blind inserts.

316L Stainless Steel (1.4404 to EN 10088)
Superior “corrosion resistant” electro chemically polished

High integrity “one piece” closed cell chloroprene or optional silicone gasket

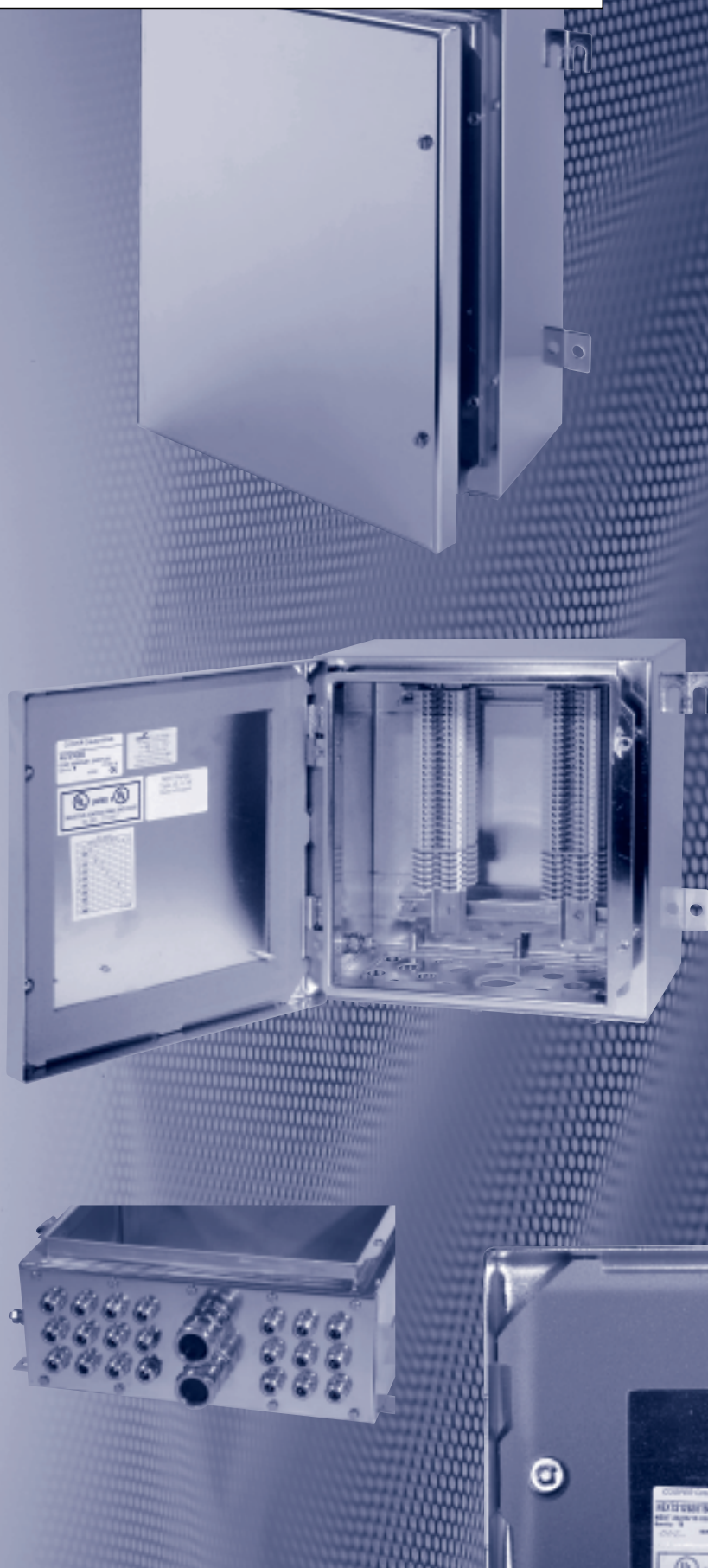
Detachable hinged door, stainless steel hinges with captive stainless steel hex screws

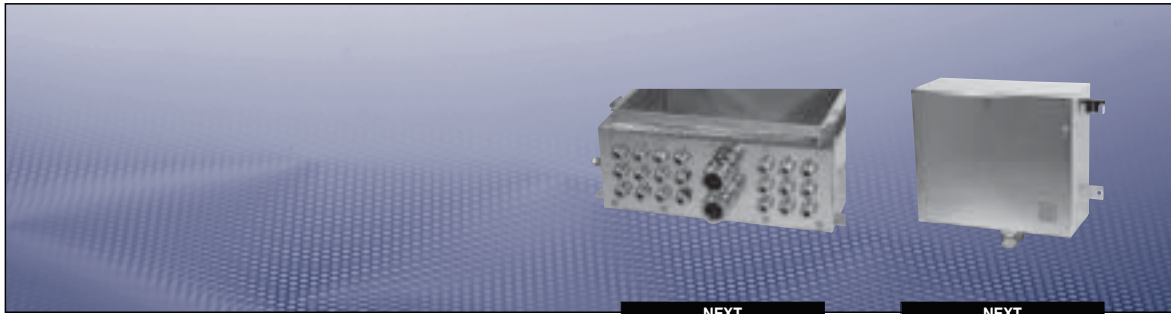
4 x external welded lugs, 11 mm Ø holes / slots.

Optional Gland Plate / Entries 3 mm thick

Extended ambient temperatures -65 °C to + 55 °C as option.

Certification GOST-R, AEx, cULus and Germanischer Lloyd on request.





Technical data

Ex-e Terminal Enclosure NEXT

Marking to 94/9/EC	Ⓔ II 2 G EEx e ia II, IIC T6, T5 / Ⓔ II 2 D IP66 T80 °C, T95 °C
Temperature class	T6 up to +40 °C / T5 up to +55 °C
EC-Type Examination Certificate	PTB 04 ATEX 1015
Permissible ambient temperature	-45 °C to +55 °C -65 °C to +55 °C (option: Silicone gasket)
Rated voltage	up to 1100 V*
Rated current	up to 500 A*
Connecting terminals	u to 240 mm ² *
Insulation class	I
Degree of protection accd. EN 60529	IP66
Cable glands/Gland plates/Enclosure drilling	up to 4 side optional gland plate (3 mm) combination with entries to meet requirements
Type of mounting	4 x 3 mm welded lugs with Ø 11 mm holes/slots, horizontal
Enclosure material	stainless steel 316 L electro chemically polished or sheet steel polyester powder coated (RAL 7032)
Material thickness	1.5 mm, 2 mm (- 62/45/20 and over)
Equipment mountings	4 x stand off pillars Ø 9 mm, 25 mm height, tapped M6 x 10, for rail or mounting plate
Enclosure earth	M10 external/internal brass earth stud assembly, M6 intern. stud on lid & painted gland plates
Gasket material	Chloroprene gasket, Silicone gasket (option)

* depending on type of terminal and Ex-components used

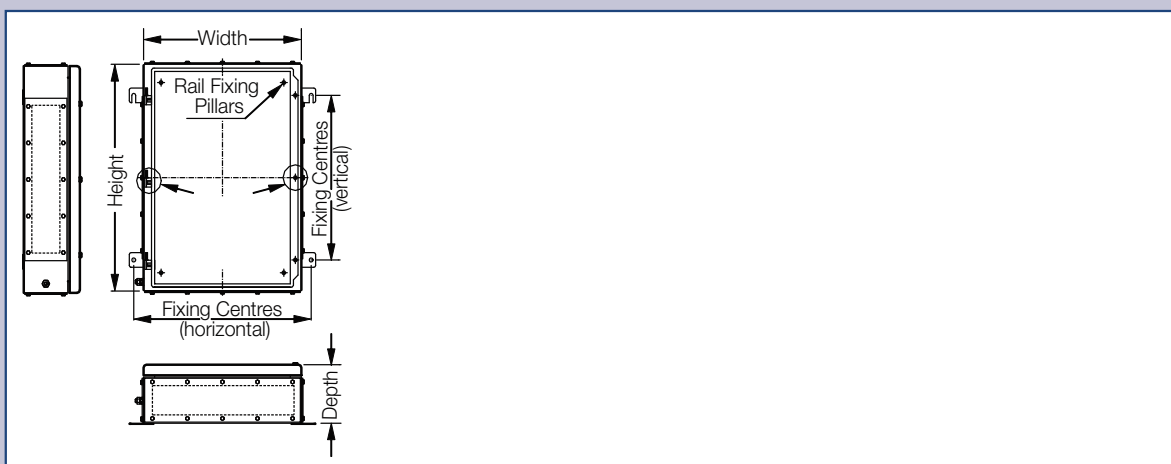
Additional Approvals:

cULUs types 3S, 4, 4 x approval suitable for

Class I, Div 2 applications, Class I Zone 1, AExe II T6 (Limited range available),

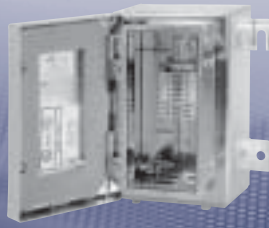
GOST 'R', Germanischer Lloyd

Dimension drawing



Dimensions in mm

Ex-e terminal enclosures



NEXT

Ordering details NEXT METRIC up to 2 x 51 terminals

NEXT Size	Dimensions ²⁾ H x W x D in mm	Fixing Centres ²⁾ F _{vertical} X F _{horizontal}	Weight in kg (empty enclosure)	Terminal mounting rail				Terminal content			
				Rail fixing centres		Rail length		Row orientation vertical (thickness in mm)			
				vert.	horiz.	vert.	horiz.	2.5 (5)	4 (6)	6 (8)	10 (10)
Enclosure dimensions and terminal content											
22/15/13	229x152x130	152x208 ³⁾	3.25	129	52	149	72	1x21	1x17	1x13	1x10
26/26/16	260x260x160	170x316	5.50	160	160	180	180	2x27	2x23	1x17	1x13
26/26/20	260x260x205	170x316	5.50	160	160	180	180	2x27	2x23	1x17	1x13
30/30/16	306x306x160	203x361 ³⁾	7.00	206	260	226	226	2x36	2x30	2x23	2x18
30/30/20	306x306x205	203x361 ³⁾	7.00	206	206	226	226	2x36	2x30	2x23	2x18
38/26/16	380x260x160	250x316	7.00	280	180	300	160	2x51	2x43	1x32	1x25
38/26/20	380x260x205	250x316	7.00	280	180	300	160	2x51	2x43	1x32	1x25

NEXT	Available glanding area			Max. Entry Guide (metric)								Order No. ⁴⁾
	Top & Bottom	Left	Right	Top & Bottom / Left / Right								
Size	(with gland plates fitted) in mm			M16	M20	M25	M32	M40	M50	M63		
Gland entry detail												
22/15/13	58x108	58x108	58x108	6/6/6	3/3/3	2/2/2	1/1/1	–	–	–	NXTS12215130	
26/26/16	214x 80	114x 80	114x 80	20/9/9	10/6/6	6/3/2	3/2/3	3/1/1	2/1/1	–	NXTS12626160	
26/26/20	214x124	114x124	114x124	28/18/18	15/9/9	12/5/5	6/4/4	5/2/2	2/1/1	2/1/1	NXTS12626200	
30/30/16	261x 80	214x 80	261x 80	26/20/26	14/10/14	8/6/8	4/3/4	3/3/3	3/2/3	–	NXTS13030160	
30/30/20	261x124	214x124	261x124	34/28/34	20/15/20	15/12/15	8/6/8	6/5/6	3/2/3	2/2/2	NXTS13030200	
38/26/16	214x 80	214x 80	214x 80	20/20/20	10/10/10	6/6/6	3/3/3	3/3/3	2/2/2	–	NXTS13826160	
38/26/20	214x124	214x124	214x124	28/28/28	15/15/15	12/12/12	6/6/6	5/5/5	2/2/2	2/2/2	NXTS13826200	

Options			
with 1 gland plate	NXT S1 XYYZZ 1		with 2 gland plates
with 3 gland plate	NXT S1 XYYZZ 3		with 4 gland plates
NXT Painted	NXT PS XYYZZ N		Permanent Padlock Hasp Facility (Factory Fitted ONLY)
			NXT NN XYYZZ0- HASP

Type	Order No.
Example	
30/30/16 with 3 gland plates, painted and Padlock HASP facility	NXTPS13030163-HASP

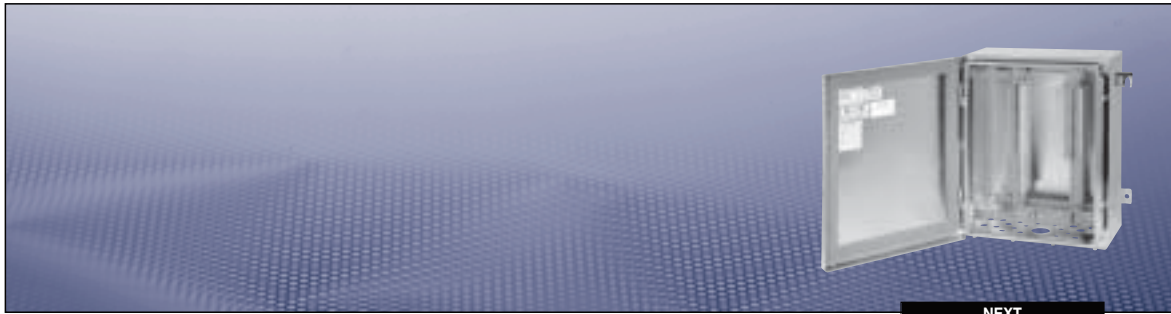
Notes: 1. The information provided is based on the physical constraints of the enclosure.

Please refer to the certificate for hazardous area applications.

2. Dimensions drawing see page 7.39

3. ¹²³ Subtract 30 mm when no side gland plates

4. Refer to „OPTIONS“ for full order number detail



Ordering details NEXT METRIC up to 3 x 128 terminals

NEXT	Dimensions ²⁾ H x W x D in mm	Fixing Centres ²⁾ F _{vertical} X F _{horizontal}	Weight in kg (empty enclosure)	Terminal mounting rail				Terminal content			
Size				Rail fixing centres		Rail length		Row orientation vertical (thickness in mm)			
				vert.	horiz.	vert.	horiz.	2.5 (5)	4 (6)	6 (8)	10 (10)
Enclosure dimensions and terminal content											
45/38/16	458x382x160	305x437 ³⁾	9.75	358	282	378	302	2x 67	2x 56	2x42	2x33
45/38/20	458x382x205	305x437 ³⁾	9.75	358	282	378	302	2x 67	2x 56	2x42	2x33
48/48/20	480x480x205	327x535 ³⁾	10.40	380	380	400	400	3x 71	3x 59	3x44	3x35
50/35/20	500x350x205	350x406	10.50	400	260	420	270	3x 75	2x 63	2x47	2x37
62/45/20	620x450x205	450x506	17.00	520	350	540	370	4x 99	3x 83	3x62	3x49
74/55/20	740x550x205	540x606	30.40	640	450	660	470	5x124	4x103	4x77	4x61
76/50/20	762x508x205	508x564 ³⁾	23.50	662	408	682	428	3x128	3x106	3x80	3x64

NEXT	Available glanding area			Max. Entry Guide (metric)							Order No. ⁴⁾
	Top & Bottom	Left	Right	Top & Bottom / Left / Right							
Size	(with gland plates fitted) in mm			M16	M20	M25	M32	M40	M50	M63	
Gland entry detail											
45/38/16	337x 80	337x 80	337x 80	29/29/29	18/18/18	10/10/10	6/6/6	5/5/5	4/4/4	–	NXTS14538160
45/38/20	337x124	337x124	337x124	46/46/46	26/26/26	21/21/21	11/11/11	9/9/9	4/4/4	3/3/3	NXTS14538200
48/48/20	404x124	337x124	404x124	53/46/53	30/26/30	24/21/24	14/11/14	11/9/11	5/4/5	4/3/4	NXTS14848200
50/35/20	304x124	304x124	304x124	40/40/40	24/24/24	18/18/18	10/10/10	7/7/7	4/4/4	3/3/3	NXTS15035200
62/45/20	404x124	404x124	404x124	53/53/53	30/30/30	24/24/24	14/14/14	11/11/11	5/5/5	4/4/4	NXTS16245200
74/55/20	504x124	504x124	504x124	60/60/60	39/39/39	30/30/30	18/18/18	13/13/13	6/6/6	5/5/5	NXTS17455200
76/50/20	404x124	594x124	594x124	53/82/82	30/47/47	24/39/39	14/20/20	11/17/17	5/7/7	4/6/6	NXTS17650200

Options

with 1 gland plate	NXT S1 XYYZZ 1	with 2 gland plates	NXT S1 XYYZZ 2
with 3 gland plate	NXT S1 XYYZZ 3	with 4 gland plates	NXT S1 XYYZZ 4
NXT Painted	NXT PS XYYZZ N	Permanent Padlock Hasp Facility (Factory Fitted ONLY)	NXT NN XYYZZ0-HASP

Type	Order No.
Example	
62/45/20 with 3 gland plates, 316L SS and Padlock HASP facility	NXTS162445203-HASP

Notes: 1. The information provided is based on the physical constraints of the enclosure.

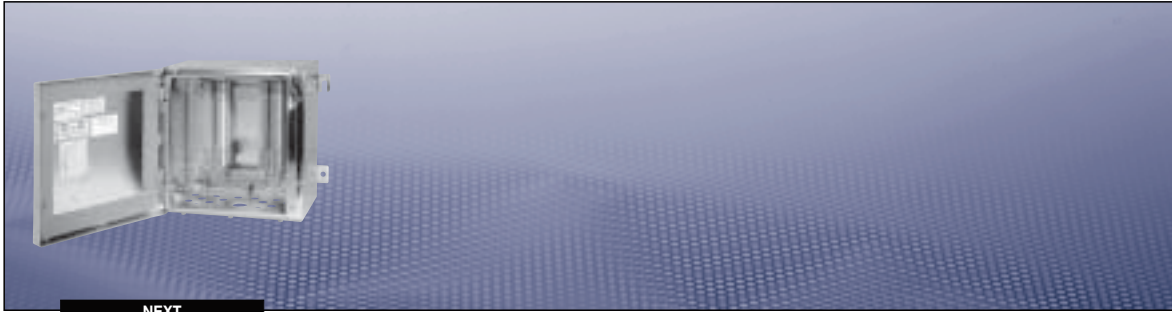
Please refer to the certificate for hazardous area applications.

2. Dimensions drawing see page 7.39

3. ¹²³⁾ Subtract 30 mm when no side gland plates

4. Refer to „OPTIONS“ for full order number detail

Ex-e terminal enclosures



NEXT

Ordering details NEXT METRIC up to 6 x 171 terminals

NEXT Size	Dimensions ²⁾ H x W x D in mm	Fixing Centres ³⁾ F _{vertical} X F _{horizontal}	Weight in kg (empty enclosure)	Terminal mounting rail				Terminal content			
				Rail fixing centres		Rail length		Row orientation vertical (thickness in mm)			
				vert.	horiz.	vert.	horiz.	2.5 (5)	4 (6)	6 (8)	10 (10)
Enclosure dimensions and terminal content											
86/64/20	860x640x205	570x696	29.00	760	540	780	560	6x147	5x123	5x 92	4x73
91/61/20	914x610x205	559x666 ³⁾	31.00	814	510	834	530	5x158	5x132	4x 99	4x79
98/74/20	980x740x205	700x796	38.00	880	640	900	660	6x171	6x143	5x107	5x85

NEXT	Available glanding area			Max. Entry Guide (metric)							Order No. ⁴⁾
	Top & Bottom	Left	Right	Top & Bottom / Left / Right							
Size	(with gland plates fitted) in mm			M16	M20	M25	M32	M40	M50	M63	
Gland entry detail											
86/64/20	594x124	2x (304x124)	2x (304x124)	82/80/80	47/48/48	39/36/36	20/20/20	17/14/14	7/8/8	6/6/6	NXTS18664200
91/61/20	566x108	566x108	566x108	72/72/72	42/42/42	24/24/24	18/18/18	8/8/8	7/7/7	6/6/6	NXTS19161200
98/74/20	2x (304x124)	2x (404x124)	2x (404x124)	80/106/106	48/60/60	36/48/48	20/28/28	14/22/22	8/10/10	6/8/8	NXTS19874200

Options			
with 1 gland plate	NXT S1 XXXYZZ 1	with 2 gland plates	NXT S1 XXXYZZ 2
with 3 gland plate	NXT S1 XXXYZZ 3	with 4 gland plates	NXT S1 XXXYZZ 4
NXT Painted	NXT PS XXXYZZ N	Permanent Padlock Hasp Facility (Factory Fitted ONLY)	NXT NN XXXYZZ0- HASP

Type	Order No.
Example	
91/61/20 with 1 gland plate, 316L SS and Padlock HASP facility	NXTPS19161201-HASP

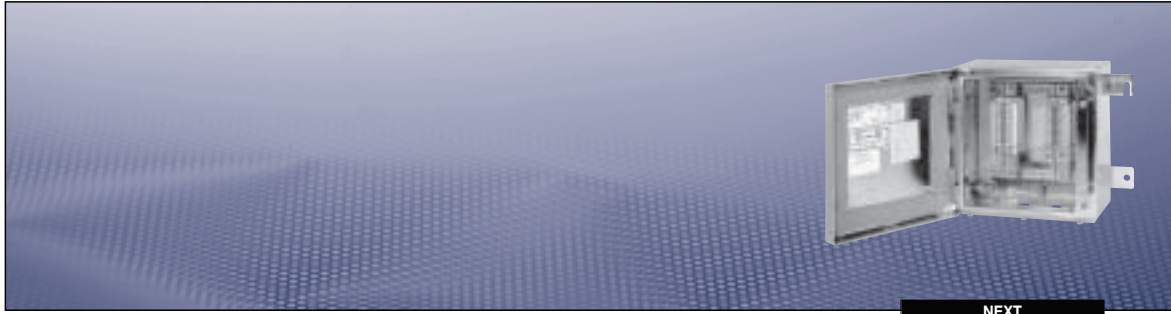
Notes: 1. The information provided is based on the physical constraints of the enclosure.

Please refer to the certificate for hazardous area applications.

2. Dimensions drawing see page 7.39

3. ¹²³ Subtract 30 mm when no side gland plates

4. Refer to „OPTIONS“ for full order number detail



Ordering details NEXT METRIC up to 6 x 75 terminals

NEXT	Dimensions ²⁾ H x W x D in mm	Fixing Centres ²⁾ F _{vertical} X F _{horizontal}	Weight in kg (empty enclosure)	Terminal mounting rail				Terminal content			
Size				Rail fixing centres		Rail length		Row orientation vertical (thickness in mm)			
				vert.	horiz.	vert.	horiz.	2.5 (5)	4 (6)	6 (8)	10 (10)
Enclosure dimensions and terminal content – landscape orientation –											
30/35/20	306x350x205	203x405	7.70	206	250	226	270	3x36	2x30	2x23	2x18
38/45/20	380x450x205	250x506	10.60	280	350	300	370	4x36	3x36	3x30	3x23
45/55/20	458x550x205	305x606	14.90	358	450	378	470	5x67	4x56	4x42	4x33
50/64/20	500x640x205	350x696	20.90	400	540	420	560	6x75	5x63	5x47	4x37

NEXT	Available glanding area			Max. Entry Guide (metric)								Order No. ⁴⁾
	Top & Bottom	Left	Right	Top & Bottom / Left / Right								
Size	(with gland plates fitted) in mm			M16	M20	M25	M32	M40	M50	M63		
Gland entry detail – landscape orientation –												
30/35/20	304x124	214x124	258x124	40/28/34	24/15/18	18/12/15	10/6/8	7/5/6	4/2/3	3/2/2		NXTS13035201
38/45/20	404x124	214x124	214x124	53/28/28	30/15/15	24/12/12	14/6/6	11/5/5	5/2/2	4/2/2		NXTS13845201
45/55/20	504x124	334x124	334x124	60/44/44	39/26/26	30/21/21	18/11/11	13/9/9	6/4/4	5/3/3		NXTS14555201
50/64/20	594x124	404x124	404x124	82/53/53	47/30/30	39/24/24	20/14/14	17/11/11	7/5/5	6/4/4		NXTS15064201

Options			
with 1 gland plate	NXT S1 XYYZZ 1	with 2 gland plates	NXT S1 XYYZZ 2
with 3 gland plate	NXT S1 XYYZZ 3	with 4 gland plates	NXT S1 XYYZZ 4
NXT Painted	NXT PS XYYZZ N	Permanent Padlock Hasp Facility (Factory Fitted ONLY)	NXT NN XYYZZ0-HASP

Type	Order No.
Example	
30/35/20 with 3 gland plates, painted and Padlock HASP facility	NXTPS303520-HASP

Notes: 1. The information provided is based on the physical constraints of the enclosure.

Please refer to the certificate for hazardous area applications.

2. Dimensions drawing see page 7.39

3. ¹²³ Subtract 30 mm when no side gland plates

4. Refer to „OPTIONS“ for full order number detail

Ex-e terminal enclosures



NEXT

Ordering details NEXT IMPERIAL up to 2 x 51 terminals

NEXT Size	Dimensions ²⁾ H x W x D in inches	Fixing Centres ²⁾ F _{vertical} X F _{horizontal}	Weight in pounds (empty enclosure)	Terminal mounting rail				Terminal content			
				Rail fixing centres		Rail length		Row orientation vertical			
				vert.	horiz.	vert.	horiz.	2.5 (5)	4 (6)	6 (8)	10 (10)
Enclosure dimensions and terminal content											
22/15/13	9.02x 5.98x5.12	5.98x 8.19 ³⁾	7.15	5.08	2.05	5.87	2.83	1x21	1x17	1x13	1x10
26/26/16	10.24x10.24x6.3	6.69x12.44	12.10	6.30	6.30	7.09	7.09	2x27	2x23	1x17	1x13
26/26/20	10.24x10.24x8.07	6.69x12.44	12.10	6.30	6.30	7.09	7.09	2x27	2x23	1x17	1x13
30/30/16	12.05x12.05x6.3	0.79x 1.42 ³⁾	15.40	8.11	8.11	8.90	8.90	2x36	2x30	2x23	2x18
30/30/20	12.05x12.05x8.07	0.79x 1.42 ³⁾	15.40	8.11	8.11	8.90	8.90	2x36	2x30	2x23	2x18
38/26/16	14.96x10.24x6.3	9.84x12.44	15.40	11.02	7.09	11.81	6.30	2x51	2x43	1x32	1x25
38/26/20	14.96x10.24x8.07	9.84x12.44	15.40	11.02	7.09	11.81	6.30	2x51	2x43	1x32	1x25

NEXT	Available glanding area			Max. Entry Guide (imperial)								Order No. ⁹⁾
	Top & Bottom	Left	Right	Top & Bottom / Left / Right								
Size	(with gland plates fitted) in inches			1/2" NPT	3/4" NPT	1" NPT	1 1/4" NPT	1 1/2" NPT	2" NPT	2 1/2" NPT		
Gland entry detail												
22/15/13	4.25x2.28	4.25x2.28	4.25x2.28	3/3/3	2/2/2	2/2/2	–	–	–	–	NXTS12215130	
26/26/16	8.43x3.15	4.49x3.15	4.49x3.15	11/5/5	4/2/2	4/2/2	3/1/1	2/1/1	–	–	NXTS12626160	
26/26/20	8.43x4.88	4.49x4.88	4.49x4.88	17/8/8	12/6/6	7/3/3	5/2/2	2/1/1	2/1/1	2/1/1	NXTS12626200	
30/30/16	10.28x3.15	8.43x3.15	10.28x3.15	13/11/13	5/4/5	4/4/4	4/3/4	3/2/3	–	–	NXTS13030160	
30/30/20	10.28x4.88	8.43x4.88	10.28x4.88	20/17/20	15/12/15	8/7/8	7/5/7	3/2/3	2/2/2	2/2/2	NXTS13030200	
38/26/16	8.43x3.15	8.43x3.15	8.43x3.15	11/11/11	4/4/4	4/4/4	3/3/3	2/2/2	–	–	NXTS13826160	
38/26/20	8.43x4.88	8.43x4.88	8.43x4.88	17/17/17	12/12/12	7/7/7	5/5/5	2/2/2	2/2/2	2/2/2	NXTS13826200	

Options			
with 1 gland plate	NXT S1	XXYYZZ 1	with 2 gland plates
with 3 gland plate	NXT S1	XXYYZZ 3	with 4 gland plates
NXT Painted	NXT PS	XXYYZZ N	Permanent Padlock Hasp Facility (Factory Fitted ONLY)
			NXT _ XXYYZZ0-HASP

Type	Order No.
Example	
38/26/20 with 1 gland plate, painted and Padlock HASP facility	NXTPS13826201-HASP

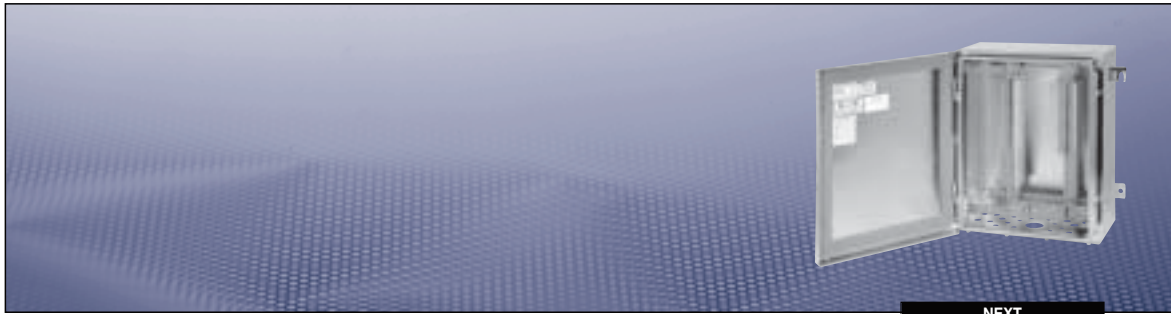
Notes: 1. The information provided is based on the physical constraints of the enclosure.

Please refer to the certificate for hazardous area applications.

2. Dimensions drawing see page 7.39

3. ¹²³⁾ Subtract 30 mm when no side gland plates

4. Refer to „OPTIONS“ for full order number detail



Ordering details NEXT IMPERIAL up to 3 x 128 terminals

NEXT	Dimensions ²⁾ H x W x D in inches	Fixing Centres ²⁾ F _{vertical} X F _{horizontal}	Weight in pounds (empty enclosure)	Terminal mounting rail				Terminal content			
Size				Rail fixing centres		Rail length		Row orientation vertical			
				vert.	horiz.	vert.	horiz.	2.5 (5)	4 (6)	6 (8)	10 (10)
Enclosure dimensions and terminal content											
45/38/16	18.03x15.04x6.30	12.01x17.20 ³⁾	21.45	14.09	11.10	14.88	11.89	2x 67	2x 56	2x42	2x33
45/38/20	18.03x15.04x8.07	12.01x17.20 ³⁾	21.45	14.09	11.10	14.88	11.89	2x 67	2x 56	2x42	2x33
48/48/20	18.09x18.09x8.07	12.87x21.06 ³⁾	22.88	14.96	14.96	15.75	15.75	3x 71	3x 59	3x44	3x35
50/35/20	19.69x13.78x8.07	13.78x15.98	23.10	15.75	10.24	16.54	10.63	3x 75	2x 63	2x47	2x37
62/45/20	24.41x17.72x8.07	17.72x19.92	37.40	20.47	13.78	21.26	14.57	4x 99	3x 83	3x62	3x49
74/55/20	29.13x21.65x8.07	21.26x23.86	66.88	25.20	17.72	25.98	18.50	5x124	4x103	4x77	4x61
76/50/20	30.00x20.00x8.07	20.00x22.20 ³⁾	51.70	26.06	16.06	26.85	16.85	3x128	3x106	3x80	3x64

NEXT	Available glanding area			Max. Entry Guide (imperial)								Order No. ⁴⁾
	Top & Bottom	Left	Right	Top & Bottom / Left / Right								
Size	(with gland plates fitted) in inches			1/2" NPT	3/4" NPT	1" NPT	1 1/4" NPT	1 1/2" NPT	2" NPT	2 1/2" NPT		
Gland entry detail												
45/38/16	13.27x3.15	13.27x3.15	13.27x3.15	18/18/18	7/7/7	6/6/6	5/5/5	4/4/4	–	–		NXTS14538160
45/38/20	13.27x4.88	13.27x4.88	13.27x4.88	27/27/27	21/21/21	11/11/11	9/9/9	4/4/4	3/3/3	3/3/3		NXTS14538200
48/48/20	15.91x4.88	13.27x4.88	15.91x4.88	33/27/33	26/21/26	14/11/14	11/9/11	5/4/5	4/3/4	3/3/3		NXTS14848200
50/35/20	11.97x4.88	11.97x4.88	11.97x4.88	24/24/24	18/18/18	10/10/10	8/8/8	4/4/4	3/3/3	2/2/2		NXTS15035200
62/45/20	15.91x4.88	15.91x4.88	15.91x4.88	33/33/33	26/26/26	14/14/14	11/11/11	5/5/5	4/4/4	3/3/3		NXTS16245200
74/55/20	19.84x4.88	19.84x4.88	19.84x4.88	41/41/41	32/32/32	18/18/18	14/14/14	6/6/6	5/5/5	4/4/4		NXTS17455200
76/50/20	15.91x4.88	23.39x4.88	23.39x4.88	33/48/48	26/39/39	14/21/21	11/17/17	5/7/7	4/6/6	3/5/5		NXTS17650200

Options

with 1 gland plate	NXT S1 XYYZZ 1	with 2 gland plates	NXT S1 XYYZZ 2
with 3 gland plate	NXT S1 XYYZZ 3	with 4 gland plates	NXT S1 XYYZZ 4
NXT Painted	NXT PS XYYZZ N	Permanent Padlock Hasp Facility (Factory Fitted ONLY)	NXT NN XYYZZ0-HASP

Type	Order No.
Example	
62/45/20 with 3 gland plates, painted and Padlock HASP facility	NXTPS62445203-HASP

Notes: 1. The information provided is based on the physical constraints of the enclosure.

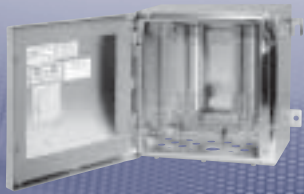
Please refer to the certificate for hazardous area applications.

2. Dimensions drawing see page 7.39

3. ¹²³ Subtract 30 mm when no side gland plates

4. Refer to „OPTIONS“ for full order number detail

Ex-e terminal enclosures



NEXT

Ordering details NEXT IMPERIAL up to 6 x 171 terminals

NEXT	Dimensions ²⁾	Fixing	Weight	Terminal mounting rail				Terminal content			
	H x W x D in inches	Centres ²⁾ F _{vertical} X F _{horizontal}	in pounds (empty enclosure)	Rail fixing		Rail length		Row orientation vertical			
Size				centres							
				vert.	horiz.	vert.	horiz.	2.5 (5)	4 (6)	6 (8)	10 (10)
Enclosure dimensions and terminal content											
86/64/20	33.86x25.20x8.07	22.44x27.40	83.80	29.92	21.26	30.71	22.05	6x147	5x123	5x 92	4x73
91/61/20	35.98x24.02x8.07	22.01x26.22 ³⁾	68.20	32.05	20.08	32.83	20.87	5x158	5x132	4x 99	4x79
98/74/20	38.58x29.13x8.07	27.56x31.34	83.60	34.65	25.20	35.43	25.98	6x171	6x143	5x107	5x85

NEXT	Available glanding area			Max. Entry Guide (imperial)								Order No. ⁴⁾
	Top & Bottom	Left	Right	Top & Bottom / Left / Right								
Size	(with gland plates fitted) in inches			1/2" NPT	3/4" NPT	1" NPT	1 1/4" NPT	1 1/2" NPT	2" NPT	2 1/2" NPT		
Gland entry detail												
86/64/20	1x (23.39x4.88)	2x (11.97x4.88)	2x (11.97x4.88)	48/8/24	39/36/18	21/20/10	17/16/8	7/7/4	6/5/3	5/4/2	NXTS18664200	
91/61/20	22.28x4.25	22.28x4.25	22.28x4.25	47/47/47	24/24/24	20/20/20	8/8/8	7/7/7	6/6/6	5/5/5	NXTS19161200	
98/74/20	2x (11.97x4.88)	2x (15.91x4.88)	2x (15.91x4.88)	48/66/33	36/51/26	20/28/14	16/22/11	7/9/5	5/7/4	4/6/3	NXTS19874200	

Options			
with 1 gland plate	NXT S1 XXXYYZ 1	with 2 gland plates	NXT S1 XXXYYZ 2
with 3 gland plate	NXT S1 XXXYYZ 3	with 4 gland plates	NXT S1 XXXYYZ 4
NXT Painted	NXT PS XXXYYZ N	Permanent Padlock Hasp Facility (Factory Fitted ONLY)	NXT NN XXXYYZ0- HASP

Type	Order No.
Example	
98/74/20 with 1 gland plate, 316L and Padlock HASP facility	NXTS19874201-HASP

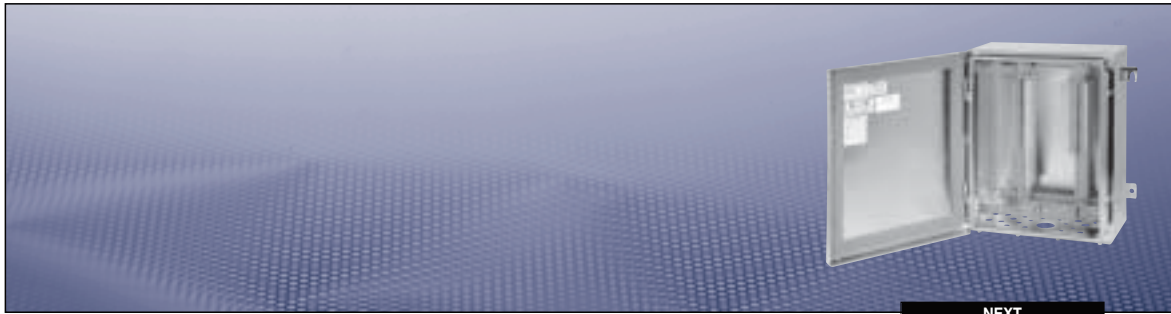
Notes: 1. The information provided is based on the physical constraints of the enclosure.

Please refer to the certificate for hazardous area applications.

2. Dimensions drawing see page 7.39

3. ¹²³ Subtract 30 mm when no side gland plates

4. Refer to „OPTIONS“ for full order number detail



Ordering details NEXT IMPERIAL up to 6 x 75 terminals

NEXT Size	Dimensions ²⁾ H x W x D in inches	Fixing Centres ²⁾ F _{vertical} X F _{horizontal}	Weight in pounds (empty enclosure)	Terminal mounting rail				Terminal content			
				Rail fixing centres		Rail length		Row orientation vertical			
				vert.	horiz.	vert.	horiz.	2.5 (5)	4 (6)	6 (8)	10 (10)
Enclosure dimensions and terminal content – landscape orientation –											
30/35/20	12.05x13.78x8.07	7.99x15.94	17.0	8.11	9.84	8.90	10.63	3x36	2x30	2x23	2x18
38/45/20	14.96x17.72x8.07	9.84x19.92	23.2	11.02	13.78	11.81	14.57	4x36	3x36	3x30	3x23
45/55/20	18.03x21.65x8.07	12.01x23.86	32.7	14.09	17.72	14.88	18.50	5x67	4x56	4x42	4x33
50/64/20	19.69x25.20x8.07	13.78x27.40	46.1	15.75	21.26	16.54	22.05	6x75	5x63	5x47	4x37

NEXT	Available glanding area			Max. Entry Guide (metric) Top & Bottom / Left / Right							Order No. ⁴⁾
	Top & Bottom	Left	Right	gland (first row) hub (second row)							
Size	(with gland plates fitted) in inches			1/2" NPT	3/4" NPT	1" NPT	1 1/4" NPT	1 1/2" NPT	2" NPT	2 1/2" NPT	
Gland entry detail – landscape orientation –											
30/35/20	11.97x4.88	8.43x4.88	10.16x4.88	38/26/32	23/15/20	18/12/15	10/6/8	8/5/–	3/2/3	3/2/2	NXTS13035201
				21/14/18	12/8/10	10/6/8	8/5/7	4/2/–	3/2/3	3/2/2	
38/45/20	15.91x4.88	8.43x4.88	8.43x4.88	52/26/26	32/15/15	26/12/12	13/6/6	11/5/–	5/2/2	4/2/2	NXTS13845201
				29/14/14	16/8/8	13/6/6	11/5/5	5/2/–	4/2/2	4/2/2	
45/55/20	19.84x4.88	13.15x4.88	13.15x4.88	64/42/42	39/26/26	33/21/21	17/11/11	14/9/–	6/4/4	5/3/3	NXTS14555201
				36/23/23	20/13/13	17/11/11	14/9/9	6/4/–	5/3/3	5/3/3	
50/64/20	23.39x4.88	15.91x4.88	15.91x4.88	78/52/52	47/32/32	39/26/26	20/13/13	17/11/–	7/5/5	6/4/4	NXTS15064201
				42/29/29	24/16/16	21/13/13	17/11/11	8/5/–	6/4/4	6/4/4	

Options

with 1 gland plate	NXT S1 XYYZZ 1	with 2 gland plates	NXT S1 XYYZZ 2
with 3 gland plate	NXT S1 XYYZZ 3	with 4 gland plates	NXT S1 XYYZZ 4
NXT Painted	NXT PS XYYZZ N	Permanent Padlock Hasp Facility (Factory Fitted ONLY)	NXT NN XYYZZ0-HASP

Type	Order No.
Example	
38/45/20 with 2 gland plates, 316L and Padlock HASP facility	NXTS13845202-HASP

Notes: 1. The information provided is based on the physical constraints of the enclosure.

Please refer to the certificate for hazardous area applications.

2. Dimensions drawing see page 7.39

3. 123³⁾ Subtract 30 mm when no side gland plates

4. Refer to „OPTIONS“ for full order number detail

EX - TERMINAL ENCLOSURES

Stainless Steel Version for Zone 1

Ex-Cell

The Ex-Cell enclosure range is an ATEX certified enclosure / termination solution for category 2 (Zone1) application with an ingress protection of IP66. Ex-Cell is available in a comprehensive range of sizes, each with the facility for various configuration possibilities for a multitude of applications. Using the highest quality materials, some unique design benefits and precision manufacturing, the Ex-Cell range is the benchmark in enclosure for both instrumentation and electrical applications.

The Ex-Cell product line is designed and ATEX certified for hazardous areas, UL-approved for heavy industrial applications and are predominantly used in the petrochemical, pharmaceutical, food process and utilities market sectors. As a result of this our enclosures have the inherent benefits of a high degree of ingress protection (IP) to environmental characteristics such as ingress of water and dust. The ingress protection (IP) of the complete product line is IP66 (water & dust), have an impact resistance of a minimum of 7 Nm whilst maintaining IP66, thus making them ideal for wash-down applications.

The Ex-Cell-I series is made for instrumentation with easy access central locking system and hinged cover.

The 1/4 turn embossed latch or bolt down fastening provides rapid means of achieving high integrity ingress protection (IP) of 66 environmental seal for reliable, rapid environmental protection.

An option for up to 3 gland plates (3 mm thick) on each side. Three possible combinations of 0, 1 or 3 gland-plates available. All sealed to IP66 rating by a high integrity Chloroprene gasket and secured by rapid fixing „Hytork“ fixing bolts.

An integral drainage channel prevents liquids or other solids contaminants from running in or falling into the enclosure when the door is opened, and to minimise gasket path contamination.

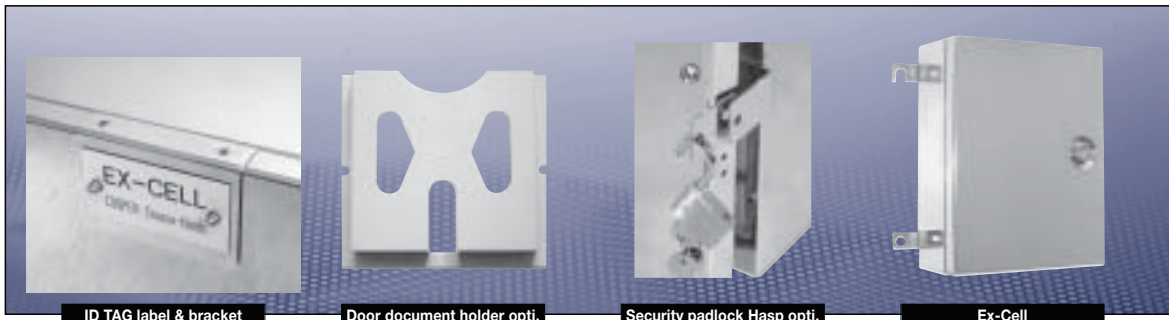
Stainless steel 316 L options and 304 IP66

Hinges and central locking device for easy access

Extended ambient temperatures -20 °C to +60 °C using chloroprene sponge gasket

External and internal earthing bolts





Technical data

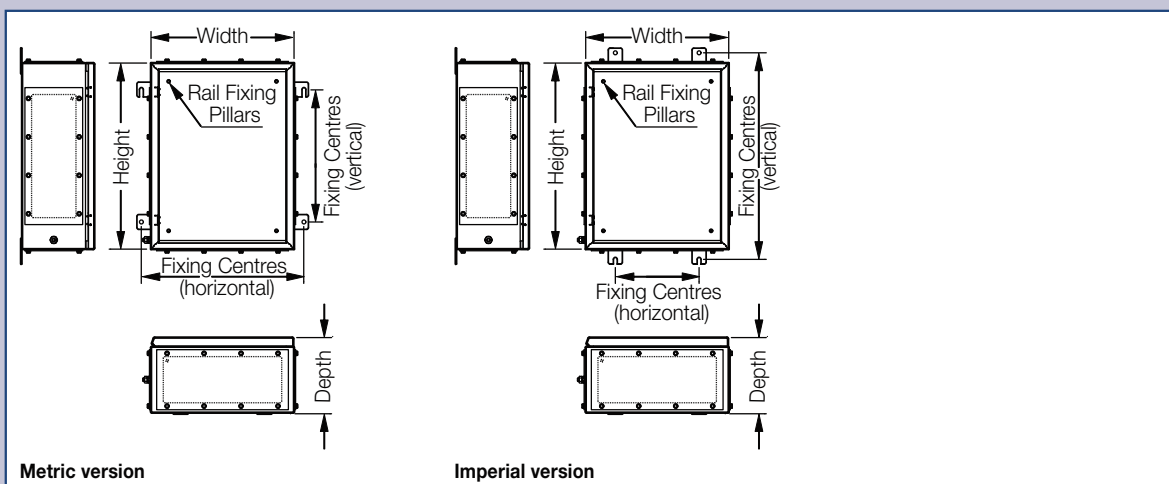
Type Ex-Cell METRIC and IMPERIAL

Marking to 94/9/EC	Ⓔ II 2 G EEx e ia IIC T6, T5 / Ⓔ II 2 D IP66 T80 °C, T95 °C
Temperature class	T6 up to +40 °C / T5 up to +55 °C
EC-Type Examination Certificate	PTB 02 ATEX 1014
Permissible ambient temperature	-20 °C to +40 °C -55 °C to +55 °C (option: closed cell expanded Silicone gasket)
Rated voltage	up to 750 V*
Rated current	up to 500 A*
Connecting terminals	u to 240 mm ² *
Insulation class	I
Degree of protection accd. EN 60529	IP66
Cable glands/Gland plates/Enclosure drilling	up to 4 side optional gland plate combination with entries to meet requirements
Type of mounting	4 x 3 mm welded lugs with Ø 11 mm holes/slots, vertical or horizontal
Enclosure material	stainless steel 316 L or 304 electro chemically polished or sheet steel polyester powder coated (RAL 7032)
Material thickness	1.2 mm (body), 1.5 mm (door)
Equipment mountings	4 x stand off pillars Ø 9 mm, 25 mm height, tapped M6 x 10, for rail or mounting plate
Enclosure earth	M10 external and internal brass earth stud assembly
Gasket material	PUR, Chloroprene gasket (option), closed cell expanded Silicone gasket (option)

* depending on type of terminal and Ex-components used

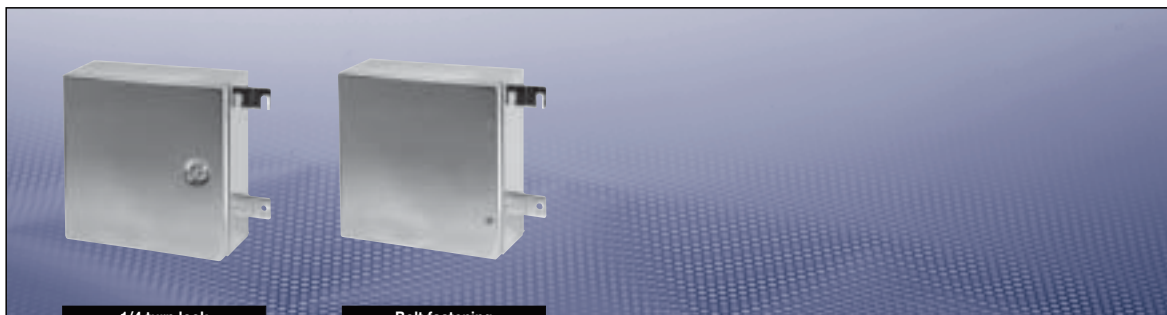
cULUs types 3S, 4, 4x approval, Germanischer Lloyd available on request.

Dimension drawing



Dimensions in mm

Ex-e/Ex-i terminal enclosures



1/4 turn lock

Bolt fastening

Ordering details Ex-Cell METRIC up to 2 x 56 terminals

316L SS- 1/4 Turn Lock Fastening Size	Dimensions ²⁾ H x W x D in mm	Fixing Centres ²⁾ vertical x horizontal	Weight in kg (empty enclosure)	Terminal mounting rail				Terminal content				
				Rail fixing		Rail length		Row orientation vertical				
				vert.	horiz.	vert.	horiz.	2.5 mm ²	4 mm ²	6 mm ²	10 mm ²	16 mm ²
Enclosure dimensions and terminal content												
23/15/13	229x152x127	152x208	2.35	129	52	149	72	1x21	1x17	1x13	1x10	1x 9
26/26/15	260x260x152	170x316	2.8	160	160	180	180	2x27	2x23	1x17	1x13	1x11
30/20/15	305x203x152	203x259	3.4	205	103	225	123	1x36	1x30	1x23	1x18	1x15
30/30/15	305x305x152	203x361	4.6	205	205	225	225	2x36	2x30	2x23	2x18	2x15
30/30/20	305x305x203	203x361	5.8	205	205	225	225	2x36	2x30	2x23	2x18	2x15
40/30/15	406x305x152	267x361	5.7	306	205	326	225	2x56	2x47	2x35	2x28	2x23
40/30/20	406x305x203	267x361	6.6	306	205	326	225	2x56	2x47	2x35	2x28	2x23

316L SS - 1/4 Turn Lock Fastening Size	Available glanding area			Max. Entry Guide (metric)								Order No. ³⁾
	Top & Bottom	Left	Right	Top & Bottom / Left / Right								
	(with gland plates fitted) in mm			M16	M20	M25	M32	M40	M50	M63		
Gland entry detail												
23/15/13	108x 58	108x 58	108x 58	6/6/6	2/2/2	2/2/2	1/1/1	–	–	–	XLHS12315130	
26/26/15	214x 80	114x 80	114x 80	21/11/11	10/5/5	4/2/2	3/2/2	3/1/1	2/1/1	–	XLHS12626150	
30/20/15	156x 80	156x 80	156x 80	15/15/15	7/7/7	3/3/3	2/2/2	2/2/2	2/2/2	–	XLHS13020150	
30/30/15	261x 80	156x 80	156x 80	26/15/15	13/7/7	5/3/3	4/2/2	3/2/2	3/2/2	–	XLHS13030150	
30/30/20	261x124	214x124	261x124	34/28/34	18/15/18	15/12/15	8/6/8	6/5/6	3/2/3	2/2/2	XLHS13030200	
40/30/15	261x 80	261x 80	261x 80	26/26/26	13/13/13	5/5/5	4/4/4	3/3/3	3/3/3	–	XLHS14030150	
40/30/20	261x124	261x124	261x124	34/34/34	18/18/18	15/15/15	8/8/8	6/6/6	3/3/3	2/2/2	XLHS14030200	

Options			
with 1 gland plate	XLH S1 XXXYZZ 1	with 3 gland plates	XLH S1 XXXYZZ 3
Ex-Cell 316L SS - Bolt Fastening	XLH S1 XXXYZZ0- B	Ex-Cell 304 SS - 1/4 Turn Lock Fastening	XLH S2 XXXYZZ 0
Ex-Cell 304 SS - Bolt Fastening	XLH S2 XXXYZZ0- B	Ex-Cell Painted - 1/4 Turn Lock Fastening	XLH PS XXXYZZ 0
Ex-Cell Painted - Bolt Fastening	XLH PS XXXYZZ0- B	Permanent Padlock Hasp Facility (Factory Fitted ONLY)	XLH NN XXXYZZ0- HASP

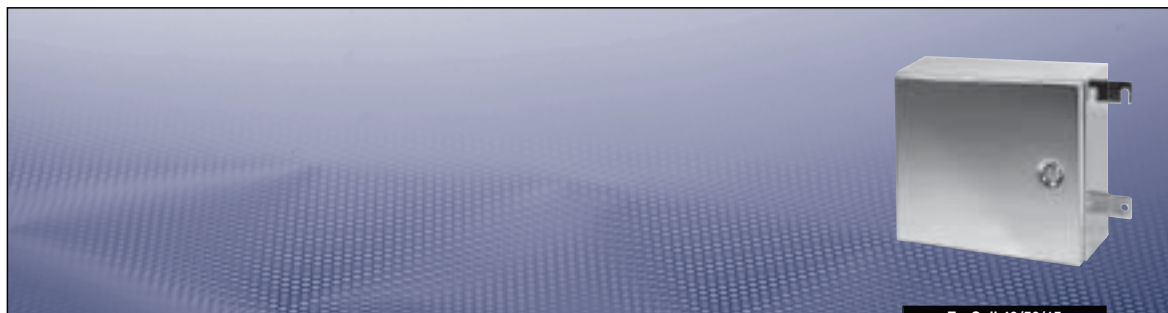
Type	Order No.
Example	
30/20/15 with 3 gland plates, painted with bolt fastening and permanent padlock HASP facility	XLHPS 3020153-B-HASP

Notes: 1. The information provided is based on the physical constraints of the enclosure.

Please refer to the certificate for hazardous area applications.

2. Dimensions drawing see page 7.49

3. Refer to „OPTIONS“ for full order number detail



Ex-Cell 40/50/15

Ordering details Ex-Cell METRIC up to 3 x 77 terminals

316L SS- 1/4 Turn Lock Fastening Size	Dimensions ²⁾ H x W x D in mm	Fixing Centres ²⁾ vertical x horizontal	Weight in kg (empty enclosure)	Terminal mounting rail				Terminal content				
				Rail fixing centres		Rail length		Row orientation vertical				
				vert.	horiz.	vert.	horiz.	2.5 mm ²	4 mm ²	6 mm ²	10 mm ²	16 mm ²
Enclosure dimensions and terminal content												
40/40/15	406x406x152	267x462	7.1	306	306	326	326	3x56	3x47	3x35	3x28	3x23
40/40/20	406x406x203	267x462	8.1	306	306	326	326	3x56	3x47	3x35	3x28	3x23
40/50/15	406x508x152	267x564	8.5	306	408	326	428	4x56	4x47	4x35	4x28	4x23
40/50/20	406x508x203	267x564	9.7	306	408	326	428	4x56	4x47	4x35	4x28	4x23
50/40/15	508x406x152	354x462	8.5	408	306	428	326	3x77	3x64	3x48	3x38	3x32
50/40/20	508x406x203	354x462	9.7	408	306	428	326	3x77	3x64	3x48	3x38	3x32

316L SS - 1/4 Turn Lock Fastening Size	Available glanding area			Max. Entry Guide (metric)								Order No. ³⁾
	Top & Bottom	Left	Right	Top & Bottom / Left / Right								
	(with gland plates fitted) in mm			M16	M20	M25	M32	M40	M50	M63		
Gland entry detail												
40/40/15	337x 80	261x 80	261x 80	35/26/26	17/13/13	7/5/5	6/4/4	5/3/3	4/3/3	–	XLHS14040150	
40/40/20	334x124	261x124	261x124	44/34/34	26/18/18	21/15/15	11/8/8	9/6/6	4/3/3	3/2/2	XLHS14040200	
40/50/15	464x 80	261x 80	261x 80	48/26/26	24/13/13	10/5/5	8/4/4	7/3/3	6/3/3	–	XLHS14050150	
40/50/20	460x124	261x124	261x124	62/34/34	35/18/18	29/15/15	15/8/8	13/6/6	5/3/3	4/2/2	XLHS14050200	
50/40/15	337x 80	337x 80	337x 80	35/35/35	17/17/17	7/7/7	6/6/6	5/5/5	4/4/4	–	XLHS15040150	
50/40/20	334x124	334x124	334x124	44/44/44	26/26/26	21/21/21	11/11/11	9/9/9	4/4/4	3/3/3	XLHS15040200	

Options

with 1 gland plate	XLH S1 XXXYYZ 1	with 3 gland plates	XLH S1 XXXYYZ 3
Ex-Cell 316L SS - Bolt Fastening	XLH S1 XXXYYZZ0- B	Ex-Cell 304 SS - 1/4 Turn Lock Fastening	XLH S2 XXXYYZ 0
Ex-Cell 304 SS - Bolt Fastening	XLH S2 XXXYYZZ0- B	Ex-Cell Painted - 1/4 Turn Lock Fastening	XLH PS XXXYYZ 0
Ex-Cell Painted - Bolt Fastening	XLH PS XXXYYZZ0- B	Permanent Padlock Hasp Facility (Factory Fitted ONLY)	XLH NN XXXYYZZ0- HASP

Type	Order No.
Example	
40/50/20 with 1 gland plates, 316L SS with bolt fastening and permanent padlock HASP facility	XLHS14050201-B-HASP

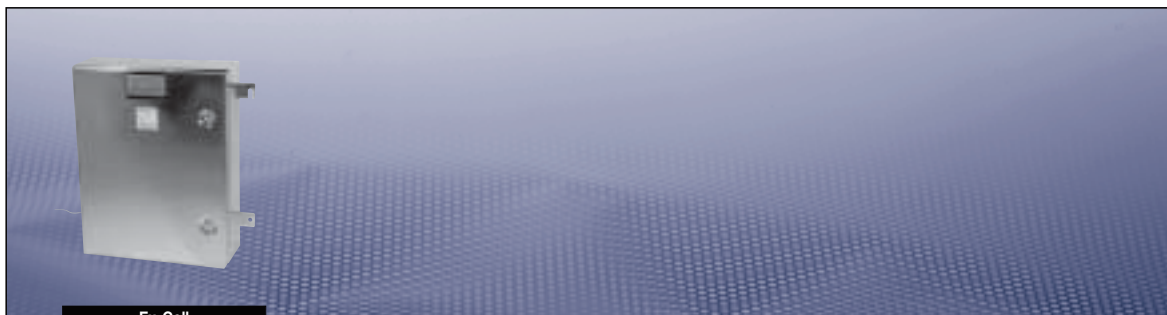
Notes: 1. The information provided is based on the physical constraints of the enclosure.

Please refer to the certificate for hazardous area applications.

2. Dimensions drawing see page 7.49

3. Refer to „OPTIONS“ for full order number detail

Ex-e/Ex-i terminal enclosures



Ex-Cell

Ordering details Ex-Cell METRIC up to 4 x 97 terminals

316L SS- 1/4 Turn Lock Fastening Size	Dimensions ²⁾ H x W x D in mm	Fixing Centres ²⁾ vertical x horizontal	Weight in kg (empty enclosure)	Terminal mounting rail				Terminal content				
				Rail fixing centres		Rail length		Row orientation vertical				
				vert.	horiz.	vert.	horiz.	2.5 mm ²	4 mm ²	6 mm ²	10 mm ²	16 mm ²
Enclosure dimensions and terminal content												
50/50/15	508x508x152	354x564	10.2	408	408	428	428	4x77	4x64	4x 48	4x38	4x32
50/50/20	508x508x203	354x564	11.4	408	408	428	428	4x77	4x64	4x 48	4x38	4x32
50/60/20	508x610x203	354x666	13.2	408	510	428	530	6x77	6x64	6x 48	6x38	6x32
60/40/15	610x406x152	445x462	9.9	510	306	530	326	3x97	3x81	3x61	3x49	3x40
60/40/20	610x406x203	445x462	11.2	510	306	530	326	3x97	3x81	3x61	3x49	3x40
60/50/15	610x508x152	445x564	11.8	510	408	530	428	4x97	4x81	4x61	4x49	4x40
60/50/20	610x508x203	445x564	13.2	510	408	530	428	4x97	4x81	4x61	4x49	4x40

316L SS - 1/4 Turn Lock Fastening Size	Available glanding area			Max. Entry Guide (metric)							Order No. ³⁾
	Top & Bottom	Left	Right	Top & Bottom / Left / Right							
	(with gland plates fitted) in mm			M16	M20	M25	M32	M40	M50	M63	
Gland entry detail											
50/50/15	464x 80	337x 80	337x 80	48/35/35	24/17/17	10/7/7	8/6/6	7/5/5	6/4/4	–	XLHS15050150
50/50/20	460x124	334x124	334x124	62/44/44	35/26/26	29/21/21	15/11/11	13/9/9	5/4/4	4/3/3	XLHS15050200
50/60/20	562x124	334x124	334x124	78/44/44	44/26/26	36/21/21	19/11/11	16/9/9	7/4/4	5/3/3	XLHS15060200
60/40/15	337x 80	464x 80	464x 80	35/48/48	17/24/24	7/10/10	6/8/8	5/7/7	4/6/6	–	XLHS16040150
60/40/20	334x124	460x124	460x124	44/62/62	26/35/35	21/29/29	11/15/15	9/13/13	4/5/5	3/4/4	XLHS16040200
60/50/15	464x 80	464x 80	464x 80	48/48/48	24/24/24	10/10/10	8/8/8	7/7/7	6/6/6	–	XLHS16050150
60/50/20	460x124	460x124	460x124	62/62/62	35/35/35	29/29/29	15/15/15	13/13/13	5/5/5	4/4/4	XLHS16050200

Options			
with 1 gland plate	XLH S1 XXXYZZ 1	with 3 gland plates	XLH S1 XXXYZZ 3
Ex-Cell 316L SS - Bolt Fastening	XLH S1 XXXYZZ0-B	Ex-Cell 304 SS - 1/4 Turn Lock Fastening	XLH S2 XXXYZZ 0
Ex-Cell 304 SS - Bolt Fastening	XLH S2 XXXYZZ0-B	Ex-Cell Painted - 1/4 Turn Lock Fastening	XLH PS XXXYZZ 0
Ex-Cell Painted - Bolt Fastening	XLH PS XXXYZZ0-B	Permanent Padlock Hasp Facility (Factory Fitted ONLY)	XLH NN XXXYZZ0-HASP

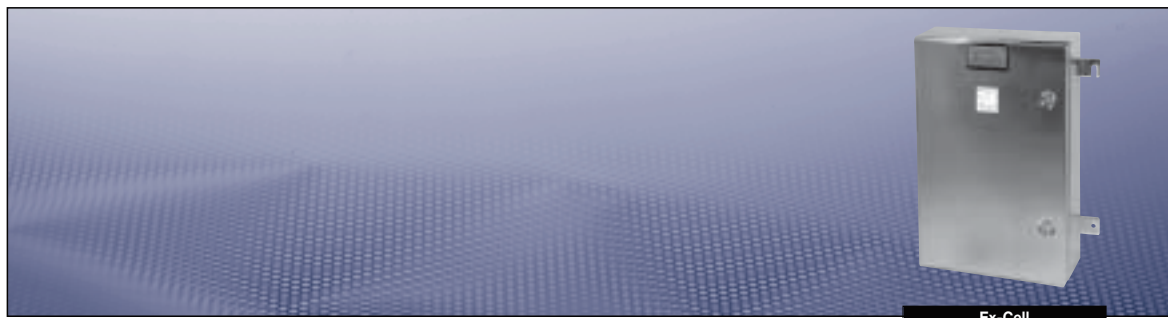
Type	Order No.
Example	
60/50/20 with 3 gland plates, painted 1/4 turn lock fastening and permanent padlock HASP facility	XLHPS6050203-HASP

Notes: 1. The information provided is based on the physical constraints of the enclosure.

Please refer to the certificate for hazardous area applications.

2. Dimensions drawing see page 7.49

3. Refer to „OPTIONS“ for full order number detail



Ex-Cell

Ordering details Ex-Cell METRIC up to 7 x 128 terminals

316L SS- 1/4 Turn Lock Fastening Size	Dimensions ²⁾ H x W x D in mm	Fixing Centres ²⁾ vertical x horizontal	Weight in kg (empty enclosure)	Terminal mounting rail				Terminal content				
				Rail fixing centres		Rail length		Row orientation vertical				
				vert.	horiz.	vert.	horiz.	2.5 mm ²	4 mm ²	6 mm ²	10 mm ²	16 mm ²
Enclosure dimensions and terminal content												
60/60/15	610x610x152	445x666	13.7	510	510	530	530	6x 97	6x 81	6x61	6x49	6x40
60/60/20	610x610x203	445x666	15.3	510	510	530	530	6x 97	6x 81	6x61	6x49	6x40
60/76/20	610x762x203	445x818	18.3	510	662	530	682	7x 97	7x 81	7x61	7x49	7x40
76/50/20	762x508x203	508x564	15.9	662	408	682	428	4x128	4x106	4x80	4x64	4x53
76/60/20	762x610x203	508x666	18.3	662	510	682	530	6x128	6x106	6x80	6x64	6x53
76/76/20	762x762x203	508x818	21.9	662	662	682	682	7x128	7x106	7x80	7x64	7x53

316L SS - 1/4 Turn Lock Fastening Size	Available glanding area			Max. Entry Guide (metric)								Order No. ³⁾
	Top & Bottom	Left	Right	Top & Bottom / Left / Right								
	(with gland plates fitted) in mm			M16	M20	M25	M32	M40	M50	M63		
Gland entry detail												
60/60/15	562x 80	464x 80	464x 80	59/48/48	29/24/24	12/10/10	10/8/8	8/7/7	7/6/6	–	XLHS16060150	
60/60/20	562x124	460x124	460x124	78/62/62	44/35/35	36/29/29	19/15/15	16/13/13	7/5/5	5/4/4	XLHS16060200	
60/76/20	714x124	460x124	460x124	100/62/62	56/35/35	47/29/29	24/15/15	20/13/13	9/5/5	7/4/4	XLHS16076200	
76/50/20	460x124	562x124	562x124	62/78/78	35/44/44	29/36/36	15/19/19	13/16/16	5/7/7	4/5/5	XLHS17650200	
76/60/20	562x124	562x124	562x124	78/78/78	44/44/44	36/36/36	19/19/19	16/16/16	7/7/7	5/5/5	XLHS17660200	
76/76/20	714x124	562x124	562x124	100/78/78	56/44/44	47/36/36	24/19/19	20/16/16	9/7/7	7/5/5	XLHS17676200	

Options

with 1 gland plate	XLH S1 XXXYYZ 1	with 3 gland plates	XLH S1 XXXYYZ 3
Ex-Cell 316L SS - Bolt Fastening	XLH S1 XXXYYZZ0- B	Ex-Cell 304 SS - 1/4 Turn Lock Fastening	XLH S2 XXXYYZ 0
Ex-Cell 304 SS - Bolt Fastening	XLH S2 XXXYYZZ0- B	Ex-Cell Painted - 1/4 Turn Lock Fastening	XLH PS XXXYYZ 0
Ex-Cell Painted - Bolt Fastening	XLH PS XXXYYZZ0- B	Permanent Padlock Hasp Facility (Factory Fitted ONLY)	XLH PS XXXYYZZ0- HASP

Type	Order No.
Example	
60/76/20 with 3 gland plates, 316 SS with bolt fastening and permanent padlock HASP facility	XLHS16076203-B-HASP

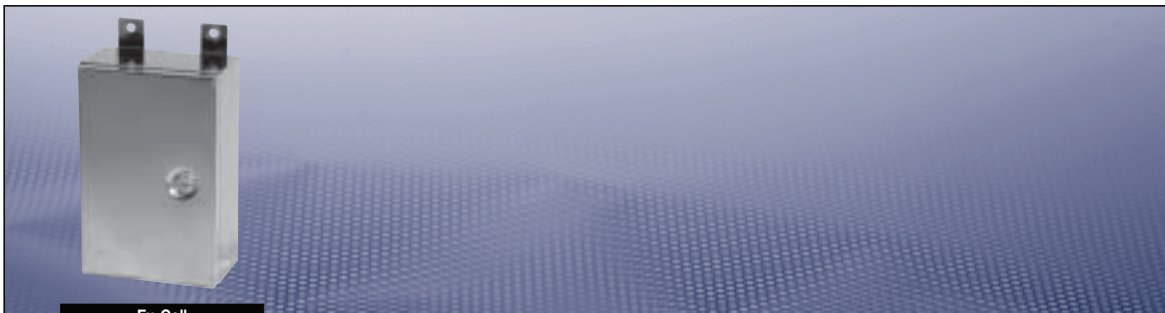
Notes: 1. The information provided is based on the physical constraints of the enclosure.

Please refer to the certificate for hazardous area applications.

2. Dimensions drawing see page 7.49

3. Refer to „OPTIONS“ for full order number detail

Ex-e/Ex-i terminal enclosures



Ordering details Ex-Cell IMPERIAL up to 2 x 36 terminals

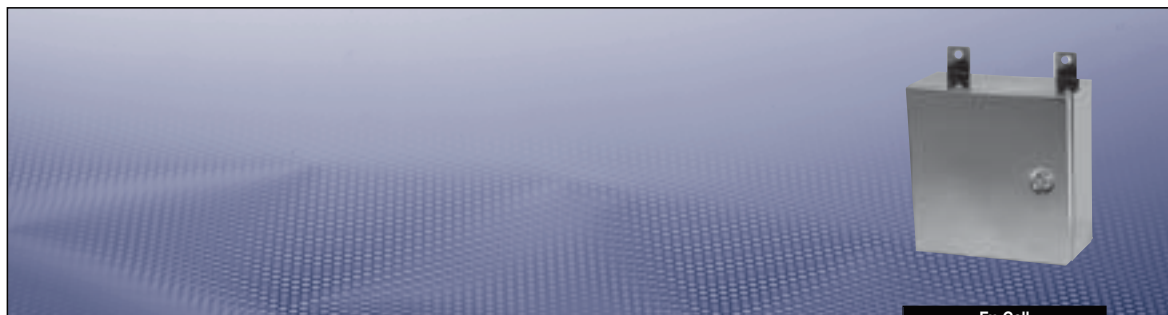
316L SS- 1/4 Turn Lock Fastening Size	Dimensions ²⁾ H x W x D in inches	Fixing Centres ²⁾ vertical x horizontal	Weight in lbs (empty enclosure)	Terminal mounting rail				Terminal content				
				Rail fixing centres		Rail length		Row orientation vertical				
				vert.	horiz.	vert.	horiz.	2.5 mm ²	4 mm ²	6 mm ²	10 mm ²	16 mm ²
Enclosure dimensions and terminal content												
9"/6"/5"	9x6x5	10.24x3.50	5.17	5.08	2.05	5.87	2.83	1x21	1x17	1x13	1x10	1x9
12"/8"/6"	12x8x6	13.24x5.50	7.54	8.07	4.06	8.86	4.84	1x36	1x30	1x23	1x18	1x15
12"/12"/6"	12x12x6	13.24x9.50	10.07	8.07	8.07	8.86	8.86	2x36	2x30	2x23	2x18	2x15
12"/12"/8"	12x12x8	13.24x9.50	12.76	8.11	8.11	8.90	8.90	2x36	2x30	2x23	2x18	2x15

316L SS - 1/4 Turn Lock	Available glanding area			Max. Entry Guide (imperial) Top & Bottom / Left / Right							Order No. ³⁾
Fastening	Top & Bottom	Left	Right	Gland (first row) Hub (second row)							
Size	(with gland plates fitted) in inches			1/2" NPT	3/4" NPT	1" NPT	1 1/4" NPT	1 1/2" NPT	2" NPT	2 1/2" NPT	
Gland entry detail											
9"/6"/5"	4.25x2.28	4.25x2.28	4.25x2.28	6/6/6	2/2/2	2/2/2	1/1/1	–	–	–	XLVS10906050
				2/2/2	2/2/2	2/2/2	–	–	–	–	
12"/8"/6"	6.14x3.15	6.14x3.15	6.14x3.15	9/9/9	7/7/7	3/3/3	2/2/2	2/2/2	2/2/2	–	XLVS11208060
				3/3/3	3/3/3	2/2/2	–	–	–	–	
12"/12"/6"	10.28x3.15	6.14x3.15	6.14x3.15	16/9/9	13/7/7	5/3/3	4/2/2	3/2/2	3/2/2	–	XLVS11212060
				12/3/3	5/3/3	4/2/2	4/0/0	3/0/0	–	–	
12"/12"/8"	10.27x4.88	8.42x4.88	10.27x4.88	32/26/32	20/15/20	15/12/15	8/6/8	6/5/6	3/2/3	2/2/2	XLVS11212080
				18/14/18	10/8/10	8/6/8	7/5/7	3/2/3	3/2/3	2/2/2	

Options			
with 1 gland plate	XLH S1 XXXYZZ 1	with 3 gland plates	XLH S1 XXXYZZ 3
Ex-Cell 316L SS - Bolt Fastening	XLH S1 XXXYZZ0-B	Ex-Cell 304 SS - 1/4 Turn Lock Fastening	XLH S2 XXXYZZ 0
Ex-Cell 304 SS - Bolt Fastening	XLH S2 XXXYZZ0-B	Ex-Cell Painted - 1/4 Turn Lock Fastening	XLH PS XXXYZZ 0
Ex-Cell Painted - Bolt Fastening	XLH PS XXXYZZ0-B	Permanent Padlock Hasp Facility (Factory Fitted ONLY)	XLH PS XXXYZZ0-HASP

Type	Order No.
Example	
12/8/6 with 3 gland plates, painted with bolt fastening	XLHS11208063-B

- Notes:** 1. The information provided is based on the physical constraints of the enclosure.
Please refer to the certificate for hazardous area applications.
2. Dimensions drawing see page 7.49
3. Refer to „OPTIONS“ for full order number detail



Ex-Cell

Ordering details Ex-Cell IMPERIAL up to 3 x 56 terminals

316L SS- 1/4 Turn Lock Fastening Size	Dimensions ²⁾ H x W x D in inches	Fixing Centres ²⁾ vertical x horizontal	Weight in lbs (empty enclosure)	Terminal mounting rail				Terminal content				
				Rail fixing centres		Rail length		Row orientation vertical				
				vert.	horiz.	vert.	horiz.	2.5 mm ²	4 mm ²	6 mm ²	10 mm ²	16 mm ²
Enclosure dimensions and terminal content												
16"/12"/6"	16x12x6	17.24x 9.50	12.57	12.05	8.07	12.83	8.86	2x56	2x47	2x35	2x28	2x23
16"/12"/8"	16x12x8	17.24x 9.50	14.54	12.05	8.07	12.83	8.86	2x56	2x47	2x35	2x28	2x23
16"/16"/6"	16x16x6	17.24x10.00	15.63	12.05	12.05	12.83	12.83	3x56	3x47	3x35	3x28	3x23
16"/16"/8"	16x16x8	17.24x10.00	17.87	12.05	12.05	12.83	12.83	3x56	3x47	3x35	3x28	3x23

316L SS - 1/4 Turn Lock Fastening Size	Available glanding area			Max. Entry Guide (imperial) Top & Bottom / Left / Right							Order No. ³⁾
	Top & Bottom	Left	Right	Gland (first row)							
	(with gland plates fitted) in inches			Hub (second row)							
				1/2" NPT	3/4" NPT	1" NPT	1 1/4" NPT	1 1/2" NPT	2" NPT	2 1/2" NPT	
Gland entry detail											
16"/12"/6"	10.28x3.15	10.28x3.15	10.28x3.15	16/16/16	13/13/13	5/5/5	4/4/4	3/3/3	3/3/3	–	XLVS11612060
				12/12/12	5/5/5	4/4/4	4/4/4	3/3/3	–	–	
16"/12"/8"	10.27x4.88	10.27x4.88	10.27x4.88	32/32/32	20/20/20	15/15/15	8/8/8	6/6/6	3/3/3	2/2/2	XLVS11612080
				18/18/18	10/10/10	8/8/8	7/7/7	3/3/3	3/3/3	2/2/2	
16"/16"/6"	13.27x3.15	10.28x3.15	10.28x3.15	21/16/16	17/13/13	7/5/5	6/4/4	5/3/3	4/3/3	–	XLVS11616060
				15/12/12	7/5/5	6/4/4	5/4/4	4/3/3	–	–	
16"/16"/8"	13.15x4.88	10.27x4.88	10.27x4.88	42/32/32	26/20/20	21/15/15	11/8/8	9/6/6	4/3/3	3/2/2	XLVS11616080
				23/18/18	13/10/10	11/8/8	9/7/7	4/3/3	3/3/3	3/2/2	

Options

with 1 gland plate	XLH S1 XXXYZZ 1	with 3 gland plates	XLH S1 XXXYZZ 3
Ex-Cell 316L SS - Bolt Fastening	XLH S1 XXXYZZ0-B	Ex-Cell 304 SS - 1/4 Turn Lock Fastening	XLH S2 XXXYZZ 0
Ex-Cell 304 SS - Bolt Fastening	XLH S2 XXXYZZ0-B	Ex-Cell Painted - 1/4 Turn Lock Fastening	XLH PS XXXYZZ 0
Ex-Cell Painted - Bolt Fastening	XLH PS XXXYZZ0-B	Permanent Padlock Hasp Facility (Factory Fitted ONLY)	XLV PS XXXYZZ0-HASP

Type	Order No.
Example	
16/16/06 with 1 gland plates, 304 SS with 1/4 turn lock fastening and permanent padlock HASP facility	XLVS21616061-HASP

Notes: 1. The information provided is based on the physical constraints of the enclosure.

Please refer to the certificate for hazardous area applications.

2. Dimensions drawing see page 7.49

3. Refer to „OPTIONS“ for full order number detail

Ex-e/Ex-i terminal enclosures



Ex-Cell

Ordering details Ex-Cell IMPERIAL up to 3 x 77 terminals

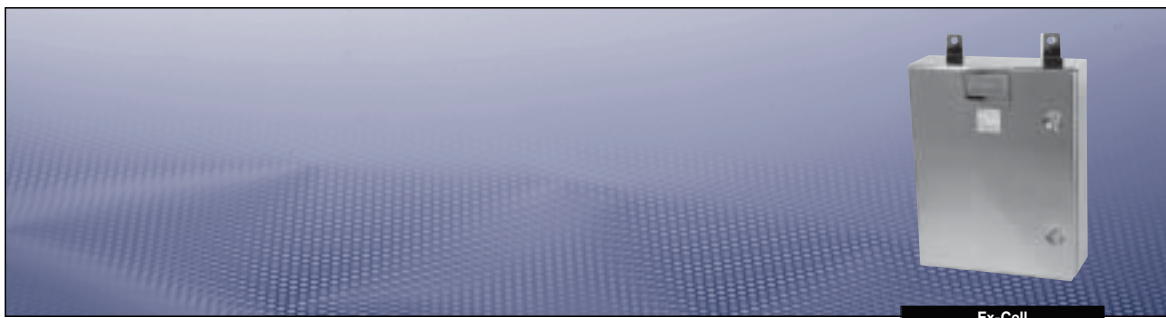
316L SS- 1/4 Turn Lock Fastening Size	Dimensions ²⁾ H x W x D in inches	Fixing Centres ²⁾ vertical x horizontal	Weight in lbs (empty enclosure)	Terminal mounting rail				Terminal content					
				Rail fixing centres		Rail length		Row orientation vertical					
				vert.	horiz.	vert.	horiz.	2.5 mm ²	4 mm ²	6 mm ²	10 mm ²	16 mm ²	
Enclosure dimensions and terminal content													
16"/20"/6"	16x20x6	17.24x14.00	18.71	12.05	16.06	12.83	16.85	4x56	4x47	4x35	4x28	4x23	
16"/20"/8"	16x20x8	17.24x14.00	21.24	12.05	16.06	12.83	16.85	4x56	4x47	4x35	4x28	4x23	
20"/16"/6"	20x16x6	21.24x10.00	18.71	16.06	12.05	16.85	12.83	3x77	3x64	3x48	3x38	3x32	
20"/16"/8"	20x16x8	21.24x10.00	21.24	16.06	12.05	16.85	12.83	3x77	3x64	3x48	3x38	3x32	

316L SS - ¼ Turn Lock Fastening Size	Available glanding area			Max. Entry Guide (imperial) Top & Bottom / Left / Right								Order No. ³⁾
	Top & Bottom	Left	Right	Gland (first row)								
				Hub (second row)								
	(with gland plates fitted) in inches			½" NPT	¾" NPT	1" NPT	1¼" NPT	1½" NPT	2" NPT	2½" NPT		
Gland entry detail												
16"/20"/6"	18.27x3.15	10.28x3.15	10.28x3.15	30/16/16	24/13/13	10/5/5	8/4/4	7/3/3	6/3/3	–	XLVS11620060	
				22/12/12	10/5/5	8/4/4	7/4/4	6/3/3	–	–		
16"/20"/8"	18.11x4.88	10.27x4.88	10.27x4.88	58/32/32	36/20/20	30/15/15	15/8/8	13/6/6	5/3/3	4/2/2	XLVS11620080	
				33/18/18	18/10/10	16/8/8	13/7/7	6/3/3	5/3/3	4/2/2		
20"/16"/6"	13.27x3.15	13.27x3.15	13.27x3.15	21/21/21	17/17/17	7/7/7	6/6/6	5/5/5	4/4/4	–	XLVS12016060	
				15/15/15	7/7/7	6/6/6	5/5/5	4/4/4	–	–		
20"/16"/8"	13.15x4.88	13.15x4.88	13.15x4.88	42/42/42	26/26/26	21/21/21	11/11/11	9/9/9	4/4/4	3/3/3	XLVS12016080	
				23/23/23	13/13/13	11/11/11	9/9/9	4/4/4	3/3/3	3/3/3		

Options			
with 1 gland plate	XLH S1 XXXYZZ 1	with 3 gland plates	XLH S1 XXXYZZ 3
Ex-Cell 316L SS - Bolt Fastening	XLH S1 XXXYZZ0-B	Ex-Cell 304 SS - 1/4 Turn Lock Fastening	XLH S2 XXXYZZ 0
Ex-Cell 304 SS - Bolt Fastening	XLH S2 XXXYZZ0-B	Ex-Cell Painted - 1/4 Turn Lock Fastening	XLH PS XXXYZZ 0
Ex-Cell Painted - Bolt Fastening	XLH PS XXXYZZ0-B	Permanent Padlock Hasp Facility (Factory Fitted ONLY)	XLV PS XXXYZZ0-HASP

Type	Order No.
Example	
20/16/8 with 3 gland plates, painted with bolt fastening and permanent padlock HASP facility	XLVPS2016083-B-HASP

- Notes:** 1. The information provided is based on the physical constraints of the enclosure.
Please refer to the certificate for hazardous area applications.
2. Dimensions drawing see page 7.49
3. Refer to „OPTIONS“ for full order number detail



Ex-Cell

Ordering details Ex-Cell IMPERIAL up to 6 x 77 terminals

316L SS- 1/4 Turn Lock Fastening Size	Dimensions ²⁾ H x W x D in inches	Fixing Centres ²⁾ vertical x horizontal	Weight in lbs (empty enclosure)	Terminal mounting rail				Terminal content				
				Rail fixing centres		Rail length		Row orientation vertical				
				vert.	horiz.	vert.	horiz.	2.5 mm ²	4 mm ²	6 mm ²	10 mm ²	16 mm ²
Enclosure dimensions and terminal content												
20"/20"/6"	20x20x6	21.24x14.00	22.36	16.06	16.06	16.85	16.85	4x77	4x64	4x48	4x38	4x32
20"/20"/8"	20x20x8	21.24x14.00	25.17	16.06	16.06	16.85	16.85	4x77	4x64	4x48	4x38	4x32
20"/24"/8"	20x24x8	21.24x18.00	29.10	16.06	20.08	16.85	20.87	6x77	6x64	6x48	6x38	6x32

316L SS - 1/4 Turn Lock Fastening Size	Available glanding area			Max. Entry Guide (imperial) Top & Bottom / Left / Right								Order No. ³⁾
	Top & Bottom	Left	Right	Gland (first row)		Hub (second row)						
	(with gland plates fitted) in inches			1/2" NPT	3/4" NPT	1" NPT	1 1/4" NPT	1 1/2" NPT	2" NPT	2 1/2" NPT		
Gland entry detail												
20"/20"/6"	18.27x3.15	13.27x3.15	13.27x3.15	30/21/21	24/17/17	10/7/7	8/6/6	7/5/5	6/4/4	–	XLVS12020060	
				22/15/15	10/7/7	8/6/6	7/5/5	6/4/4	–	–		
20"/20"/8"	18.11x4.88	13.15x4.88	13.15x4.88	58/42/42	36/26/26	30/21/21	15/11/11	13/9/9	5/4/4	4/3/3	XLVS12020080	
				33/23/23	18/13/13	16/11/11	13/9/9	6/4/4	5/3/3	4/3/3		
20"/24"/8"	22.13x4.88	13.15x4.88	13.15x4.88	72/42/42	44/26/26	36/21/21	19/11/11	16/9/9	7/4/4	5/3/3	XLVS12024080	
				41/23/23	23/13/13	19/11/11	16/9/9	7/4/4	6/3/3	5/3/3		

Options			
with 1 gland plate	XLH S1 XXYZZ 1	with 3 gland plates	XLH S1 XXYZZ 3
Ex-Cell 316L SS - Bolt Fastening	XLH S1 XXYZZ0-B	Ex-Cell 304 SS - 1/4 Turn Lock Fastening	XLH S2 XXYZZ 0
Ex-Cell 304 SS - Bolt Fastening	XLH S2 XXYZZ0-B	Ex-Cell Painted - 1/4 Turn Lock Fastening	XLH PS XXYZZ 0
Ex-Cell Painted - Bolt Fastening	XLH PS XXYZZ0-B	Permanent Padlock Hasp Facility (Factory Fitted ONLY)	XLV PS XXYZZ0-HASP

Type	Order No.
Example	
20/20/8 with 1 gland plates, 316L SS with bolt fastening	XLVS12020081-B

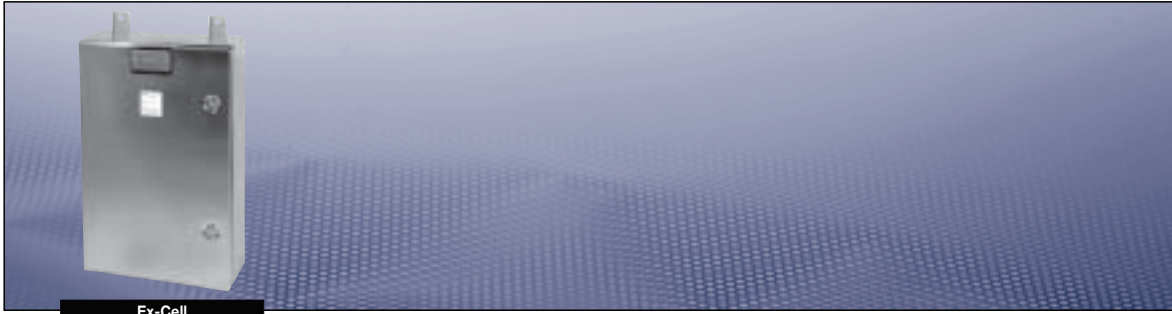
Notes: 1. The information provided is based on the physical constraints of the enclosure.

Please refer to the certificate for hazardous area applications.

2. Dimensions drawing see page 7.49

3. Refer to „OPTIONS“ for full order number detail

Ex-e/Ex-i terminal enclosures



Ex-Cell

Ordering details Ex-Cell IMPERIAL up to 4 x 97 terminals

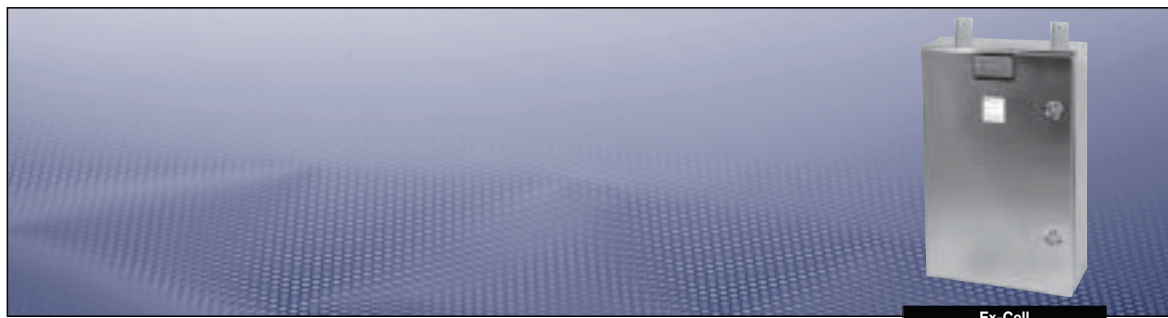
316L SS- 1/4 Turn Lock Fastening Size	Dimensions ²⁾ H x W x D in inches	Fixing Centres ²⁾ vertical x horizontal	Weight in lbs (empty enclosure)	Terminal mounting rail				Terminal content				
				Rail fixing		Rail length		Row orientation vertical				
				vert.	horiz.	vert.	horiz.	2.5 mm ²	4 mm ²	6 mm ²	10 mm ²	16 mm ²
Enclosure dimensions and terminal content												
24"/16"/6"	24x16x6	25.24x10.00	21.80	20.08	12.05	20.87	12.83	3x97	3x81	3x61	3x49	3x40
24"/16"/8"	24x16x8	25.24x10.00	24.61	20.08	12.05	20.87	12.83	3x97	3x81	3x61	3x49	3x40
24"/20"/6"	24x20x6	25.24x14.00	26.01	20.08	16.06	20.87	16.85	4x97	4x81	4x61	4x49	4x40
24"/20"/8"	24x20x8	25.24x14.00	29.01	20.08	16.06	20.87	16.85	4x97	4x81	4x61	4x49	4x40

316L SS - ¼ Turn Lock Fastening Size	Available glanding area			Max. Entry Guide (imperial) Top & Bottom / Left / Right								Order No. ³⁾
	Top & Bottom	Left	Right	Gland (first row)								
				Hub (second row)								
	(with gland plates fitted) in inches			½" NPT	¾" NPT	1" NPT	1¼" NPT	1½" NPT	2" NPT	2½" NPT		
Gland entry detail												
24"/16"/6"	13.27x3.15	18.27x3.15	18.27x3.15	21/30/30	17/24/24	7/10/10	6/8/8	5/7/7	4/6/6	–	XLVS12416060	
				15/22/22	7/10/10	6/8/8	5/7/7	4/6/6	–	–		
24"/16"/8"	13.15x4.88	18.11x4.88	18.11x4.88	42/58/58	26/36/36	21/30/30	11/15/15	9/13/13	4/5/5	3/4/4	XLVS12416080	
				23/33/33	13/18/18	11/16/16	9/13/13	4/6/6	3/5/5	3/4/4		
24"/20"/6"	18.27x3.15	18.27x3.15	18.27x3.15	30/30/30	24/24/24	10/10/10	8/8/8	7/7/7	6/6/6	–	XLVS12420060	
				22/22/22	10/10/10	8/8/8	7/7/7	6/6/6	–	–		
24"/20"/8"	18.11x4.88	18.11x4.88	18.11x4.88	58/58/58	36/36/36	30/30/30	15/15/15	13/13/13	5/5/5	4/4/4	XLVS12420080	
				33/33/33	18/18/18	16/16/16	13/13/13	6/6/6	5/5/5	4/4/4		

Options			
with 1 gland plate	XLH S1 XXXYZZ 1	with 3 gland plates	XLH S1 XXXYZZ 3
Ex-Cell 316L SS - Bolt Fastening	XLH S1 XXXYZZ0- B	Ex-Cell 304 SS - 1/4 Turn Lock Fastening	XLH S2 XXXYZZ 0
Ex-Cell 304 SS - Bolt Fastening	XLH S2 XXXYZZ0- B	Ex-Cell Painted - 1/4 Turn Lock Fastening	XLH PS XXXYZZ 0
Ex-Cell Painted - Bolt Fastening	XLH PS XXXYZZ0- B	Permanent Padlock Hasp Facility (Factory Fitted ONLY)	XLV PS XXXYZZ0- HASP

Type	Order No.
Example	
24/16/6 with 1 gland plates, painted with bolt fastening and permanent padlock HASP facility	XLVPS2416061-B-HASP

- Notes:** 1. The information provided is based on the physical constraints of the enclosure.
Please refer to the certificate for hazardous area applications.
2. Dimensions drawing see page 7.49
3. Refer to „OPTIONS“ for full order number detail



Ex-Cell

Ordering details Ex-Cell IMPERIAL up to 7 x 97 terminals

316L SS- 1/4 Turn Lock Fastening Size	Dimensions ²⁾ H x W x D in inches	Fixing Centres ²⁾ vertical x horizontal	Weight in lbs (empty enclosure)	Terminal mounting rail				Terminal content					
				Rail fixing centres		Rail length		Row orientation vertical					
				vert.	horiz.	vert.	horiz.	2.5 mm ²	4 mm ²	6 mm ²	10 mm ²	16 mm ²	
Enclosure dimensions and terminal content													
24"/24"/6"	24x24x6	25.24x18.00	30.22	20.08	20.08	20.87	20.87	6x97	6x81	6x61	6x49	6x40	
24"/24"/8"	24x24x8	25.24x18.00	33.60	20.08	20.08	20.87	20.87	6x97	6x81	6x61	6x49	6x40	
24"/30"/8"	24x30x8	25.24x24.00	40.30	20.08	26.06	20.87	26.85	7x97	7x81	7x61	7x49	7x40	

316L SS - 1/4 Turn Lock Fastening Size	Available glanding area			Max. Entry Guide (imperial) Top & Bottom / Left / Right								Order No. ³⁾
	Top & Bottom	Left	Right	Gland (first row) Hub (second row)								
	(with gland plates fitted) in inches			1/2" NPT	3/4" NPT	1" NPT	1 1/4" NPT	1 1/2" NPT	2" NPT	2 1/2" NPT		
Gland entry detail												
24"/24"/6"	22.13x3.15	18.27x3.15	18.27x3.15	36/30/30	29/24/24	12/10/10	10/8/8	8/7/7	7/6/6	–	XLVS12424060	
				27/22/22	12/10/10	10/8/8	8/7/7	7/6/6	–	–		
24"/24"/8"	22.13x4.88	18.11x4.88	18.11x4.88	72/58/58	44/36/36	36/30/30	19/15/15	16/13/13	7/5/5	5/4/4	XLVS12424080	
				41/33/33	23/18/18	19/16/16	16/13/13	7/6/6	6/5/5	5/4/4		
24"/30"/8"	28.11x4.88	18.11x4.88	18.11x4.88	94/58/58	57/36/36	47/30/30	24/15/15	20/13/13	9/5/5	7/4/4	XLVS12430080	
				51/33/33	30/18/18	25/16/16	21/13/13	9/6/6	8/5/5	7/4/4		

Options			
with 1 gland plate	XLH S1 XXXYZZ 1	with 3 gland plates	XLH S1 XXXYZZ 3
Ex-Cell 316L SS - Bolt Fastening	XLH S1 XXXYZZ0-B	Ex-Cell 304 SS - 1/4 Turn Lock Fastening	XLH S2 XXXYZZ 0
Ex-Cell 304 SS - Bolt Fastening	XLH S2 XXXYZZ0-B	Ex-Cell Painted - 1/4 Turn Lock Fastening	XLH PS XXXYZZ 0
Ex-Cell Painted - Bolt Fastening	XLH PS XXXYZZ0-B	Permanent Padlock Hasp Facility (Factory Fitted ONLY)	XLV PS XXXYZZ0-HASP

Type	Order No.
Example	
24/22/8 with 3 gland plates, 316L SS with bolt fastening	XLVS12422083-B

- Notes:** 1. The information provided is based on the physical constraints of the enclosure.
Please refer to the certificate for hazardous area applications.
2. Dimensions drawing see page 7.49
3. Refer to „OPTIONS“ for full order number detail

Ex-e/Ex-i terminal enclosures



Ex-Cell

Ordering details Ex-Cell IMPERIAL up to 7 x 128 terminals

316L SS- 1/4 Turn Lock Fastening Size	Dimensions ²⁾ H x W x D in inches	Fixing Centres ²⁾ vertical x horizontal	Weight in lbs (empty enclosure)	Terminal mounting rail				Terminal content				
				Rail fixing		Rail length		Row orientation vertical				
				vert.	horiz.	vert.	horiz.	2.5 mm ²	4 mm ²	6 mm ²	10 mm ²	16 mm ²
Enclosure dimensions and terminal content												
30"/20"/8"	30x20x8	31.24x14.00	34.96	26.06	16.06	26.85	16.85	4x128	4x106	4x80	4x64	4x53
30"/24"/8"	30x24x8	31.24x18.00	40.30	26.06	20.08	26.85	20.87	6x128	6x106	6x80	6x64	6x53
30"/30"/8"	30x30x8	31.24x24.00	48.25	26.06	26.06	26.85	26.85	7x128	7x106	7x80	7x64	7x53

316L SS - 1/4 Turn Lock Fastening Size	Available glanding area			Max. Entry Guide (imperial) Top & Bottom / Left / Right								Order No. ³⁾
	Top & Bottom	Left	Right	Gland (first row) Hub (second row)								
	(with gland plates fitted) in inches			1/2" NPT	3/4" NPT	1" NPT	1 1/4" NPT	1 1/2" NPT	2" NPT	2 1/2" NPT		
	Gland entry detail											
30"/20"/8"	18.11x4.88	22.13x4.88	22.13x4.88	58/72/72	36/44/44	30/36/36	15/19/19	13/16/16	5/7/7	4/5/5	XLVS13020080	
				33/41/41	18/23/23	16/19/19	13/16/16	6/7/7	5/6/6	4/5/5		
30"/24"/8"	22.13x4.88	22.13x4.88	22.13x4.88	72/72/72	44/44/44	36/36/36	19/19/19	16/16/16	7/7/7	5/5/5	XLVS13024080	
				41/41/41	23/23/23	19/19/19	16/16/16	7/7/7	6/6/6	5/5/5		
30"/30"/8"	28.11x4.88	22.13x4.88	22.13x4.88	94/72/72	57/44/44	47/36/36	24/19/19	20/16/16	9/7/7	7/5/5	XLVS13030080	
				51/41/41	30/23/23	25/19/19	21/16/16	9/7/7	8/6/6	7/5/5		

Options			
with 1 gland plate	XLH S1	XXYYZZ 1	
Ex-Cell 316L SS - Bolt Fastening	XLH S1	XXYYZZ0-B	
Ex-Cell 304 SS - Bolt Fastening	XLH S2	XXYYZZ0-B	
Ex-Cell Painted - Bolt Fastening	XLH PS	XXYYZZ0-B	
with 3 gland plates	XLH S1	XXYYZZ 3	
Ex-Cell 304 SS - 1/4 Turn Lock Fastening	XLH S2	XXYYZZ 0	
Ex-Cell Painted - 1/4 Turn Lock Fastening	XLH PS	XXYYZZ 0	
Permanent Padlock Hasp Facility (Factory Fitted ONLY)	XLV PS	XXYYZZ0-HASP	

Type	Order No.
Example	
30/30/8 with 1 gland plates, 304 SS with bolt fastening and permanent padlock HASP facility	HLVS23030081-B-HASP

- Notes:** 1. The information provided is based on the physical constraints of the enclosure.
Please refer to the certificate for hazardous area applications.
2. Dimensions drawing see page 7.49
3. Refer to „OPTIONS“ for full order number detail

EX - TERMINAL ENCLOSURES

Stainless Steel Version for Zone 1

STB

The **STB** range is an “ATEX certified” terminal box solution available in various options of materials and finishes fully compliant with the impact, thermal and ingress requirements of EN 60079-0 ff. and EN 6124-0 ff. and is available in a comprehensive range of 12 different sizes. With for the possibilities many configuration for a multitude of applications. Using the highest quality materials, unique design benefits and precision manufacturing the **STB** range is the benchmark in heavy-duty gauge enclosures of its class.

STB has unique wrap-round lid cover design that wraps around the body of the enclosures eliminate ingress of either liquids such as green-water or powder, such as sand. This design provides a significant advantage as the gasket sealing area is not exposed to the external environment, preventing contamination from ice formations and abrasion of sand storms. The lid cover is secured and sealed to IP66 by the retained stainless steel bolts around the outside of the enclosure, whilst being supported a floppy hinge that allow the lid cover to be removed.

The superior quality „one piece“ Chloroprene closed cell gasket material that maintains the enclosures high ingress protection integrity providing IP66. This material has a wide operating temperature range for the most hostile environments.

The body of the **STB** enclosure has a superior wide surface area gasket sealing area 10 mm wide compared to conventional enclosures that use a knife-edge seal, that is only the thickness of the material, typically only 1.5 mm.

316L Stainless Steel (1.4404 to EN 10088)
Superior “corrosion resistant” electro chemically polished.

Sheet Steel - Polyester powder coated to RAL 7032.

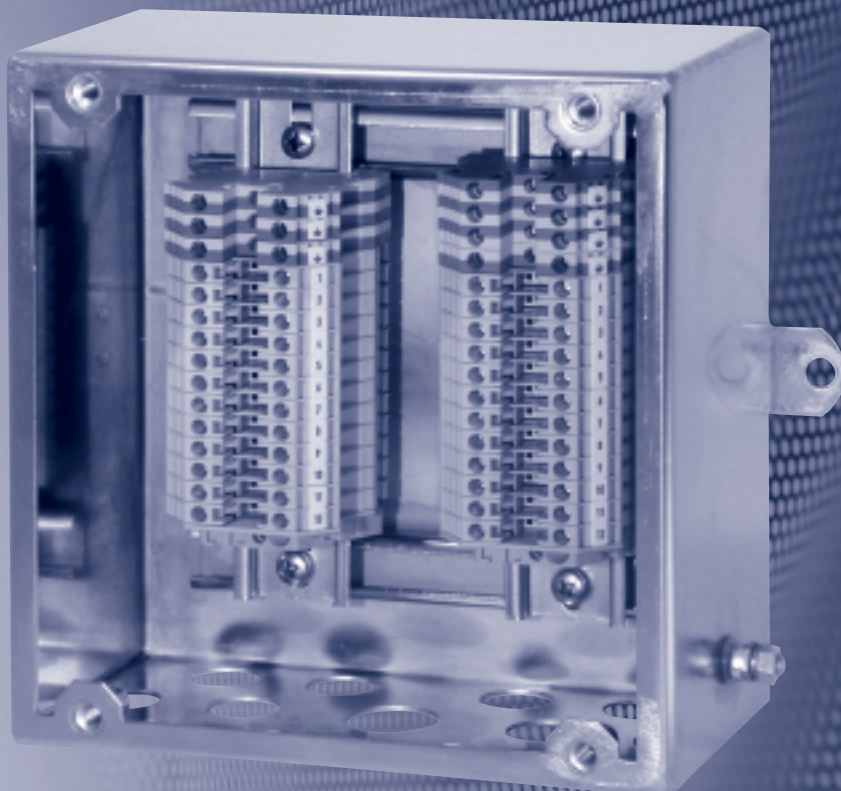
High integrity “one piece” solid Chloroprene rubber or High integrity “one piece” closed cell chloroprene sponge.

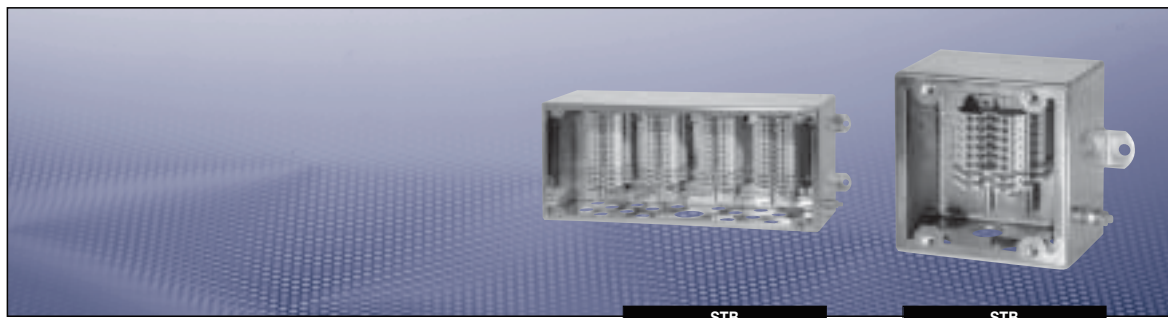
Optional Silicone gasket available on all sizes.

IP66

Extended ambient temperatures -65 °C to +55 °C as option.

Certification GOST-R, AEx, cULus and Germanischer Lloyd on request





Technical data

Type STB Terminal Enclosure METRIC and IMPERIAL

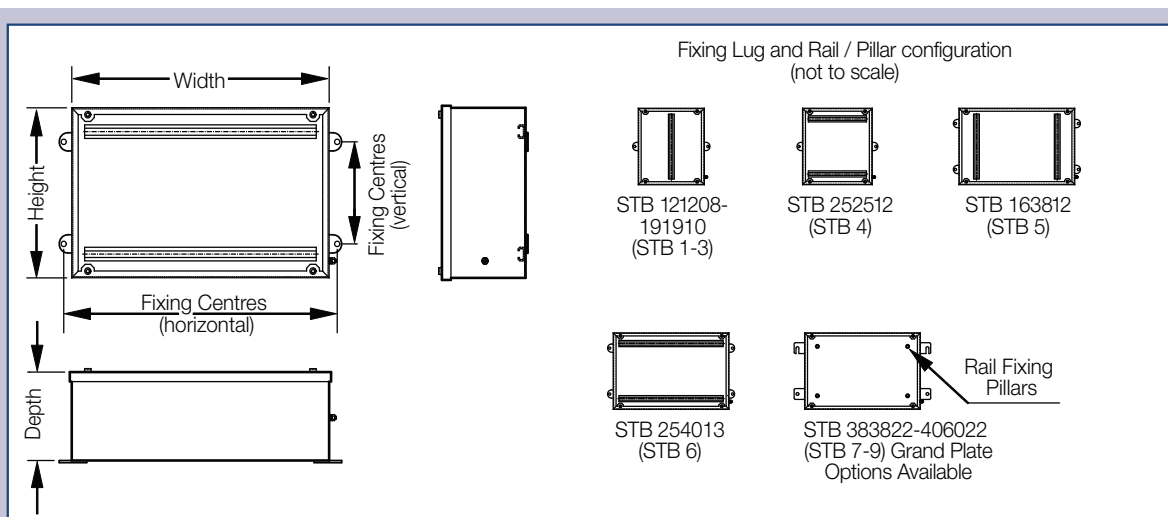
Marking to 94/9/EC	Ⓔ II 2(1) G EEx e (ia) IIC T6, T5 Ⓔ II 1 G EEx ia IIC T6, T5 Ⓔ II 2 D IP66 T95 °C
Temperature class	T6 up to +40 °C / T5 up to +55 °C
EC-Type Examination Certificate	PTB 04 ATEX 1015
Permissible ambient temperature	-30 °C to +40 °C -65 °C to +55 °C (option: Silicone gasket)
Rated voltage	up to 690 V*
Rated current	up to 500 A*
Connecting terminals	up to 240 mm ² *
Insulation class	I
Degree of protection accd. EN 60529	IP66
Cable glands/Gland plates/Enclosure drilling	up to 4 side optional gland plate combination with entries to meet requirements (38/38/20 - 60/40/20) combination with entries to meet requirements
Type of mounting	STB 12/12/09 - 25/25/12 2 welded lugs with Ø 8 mm holes STB 16/38/12 - 25/40/13 4 welded lugs with Ø 8 mm holes STB 38/38/22 - 60/40/20 4 welded lugs with Ø 11 mm holes
Enclosure material	stainless steel 316 L or sheet steel polyester powder coated (RAL 7032)
Material thickness	1.5 mm
Equipment mountings	12/12/08 - 25/40/13 internally welded TAS 20 rail terminals mounting 38/38/20 - 60/40/20 4 x stand off pillars Ø 9 mm, 25 mm height, tapped M6 x 10, for rail or mounting plate
Enclosure earth	12/12/08 - 25/40/13 M6 external/internal earth stud assembly 38/38/20 - 60/40/20 M10 external/internal earth stud assembly
Gasket material	Neoprene, Silicone gasket (option)

* depending on type of terminal and Ex-components used

Additional certifications:

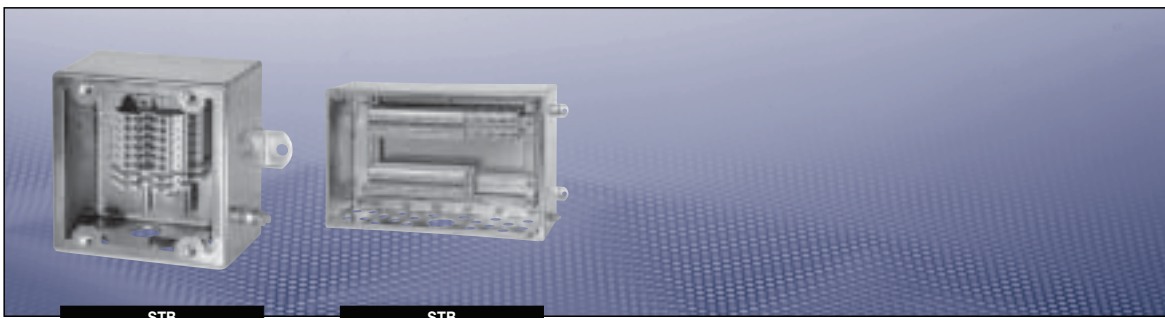
GOST-R, cULUs types 3S, 4, 4 x and Germanischer Lloyd approved on request.

Dimension drawing



Dimensions in mm

Ex-e Terminal enclosures



STB

STB

Ordering details STB METRIC up to 3 x 51 terminals

STB Size	Dimensions ¹⁾ H x W x D in mm	Fixing Centres ¹⁾ vertical x horizontal	Weight in kg (empty enclosure)	Terminal mounting rail				Terminal content			
				Rail fixing centres		Rail length		Row orientation vertical			
				vert.	horiz.	vert.	horiz.	2.5 (6)	4 (6.5)	6 (8)	10 (10)
Enclosure dimensions and terminal content											
12/12/08 ²⁾	120x120x 80	145x145	1.4	62	82	1x 8	1x 6	1x 5	1x 4		
15/12/08 ²⁾	150x120x 80	175x175	1.6	90	110	1x13	1x11	1x 8	1x 7		
15/15/09 ²⁾	150x150x 90	175x175	1.9	90	110	1x13	1x11	1x 8	1x 7		
19/15/09 ²⁾	190x150x 90	175x175	2.3	130	150	1x21	1x18	1x13	1x10		
19/19/10 ²⁾	190x190x100	215x215	3.0	130	150	1x21	1x18	1x13	1x10		
25/25/12 ²⁾	250x250x120	275x275	3.7	180	200	2x31	2x26	2x19	2x15		
16/38/12 ²⁾	160x380x120	80x405	3.7	300	320	1x55	1x46	1x34	1x28		
25/40/13 ²⁾	250x400x130	150x425	5.4	180	200	3x31	3x26	3x19	3x15		

STB	Available glanding area			Max. Entry Guide (metric)								Order No. ⁴⁾
	Top & Bottom	Left	Right	Top & Bottom / Left / Right								
Size	(with gland plates fitted) in mm			M16	M20	M25	M32	M40	M50	M63		
Gland entry detail												
12/12/08 ²⁾	114x 63	114x 63	70x 63	7/7/4	3/3/1	2/2/1	2/2/1	–	–	–	STBS1121208	
15/12/08 ²⁾	114x 63	114x 63	100x 63	7/9/6	3/3/2	2/3/2	2/2/1	–	–	–	STBS1151208	
15/15/09 ²⁾	144x 73	144x 73	100x 73	9/9/6	6/6/4	3/3/2	2/2/1	2/2/1	–	–	STBS1151509	
19/15/09 ²⁾	144x 73	184x 73	130x 73	9/12/8	6/8/6	3/4/2	2/3/2	2/2/1	–	–	STBS1191509	
19/19/10 ²⁾	184x 83	184x 83	140x 83	18/18/14	8/8/6	7/7/5	3/3/2	2/2/2	2/2/1	–	STBS1191910	
25/25/12 ²⁾	244x103	244x103	200x103	32/32/26	18/18/14	10/10/8	7/7/6	3/3/3	3/3/2	2/2/2	STBS1252512	
16/38/12 ²⁾	372x103	154x103	330x103	50/20/44	29/11/24	15/6/14	12/4/10	5/2/5	4/1/4	3/1/3	STBS1163812	
25/40/13 ²⁾	394x113	244x113	350x113	54/32/48	30/18/26	16/10/14	13/7/11	6/3/5	5/3/4	4/2/3	STBS1254013	

Options											
STB Painted			STB PS 1XXYYZZ			STB with additional UL CERT ²⁾			STB _S 1XXYYZZ UL		
STB with gland 1 plate ³⁾			STB _S 1XXYYZZ 1			STB with gland 3 plate ³⁾			STB _S 1XXYYZZ 3		

Type	Order No.
Example	
15/15/09 painted with 3 gland plates and UL-certification	STBPS1151509-UL

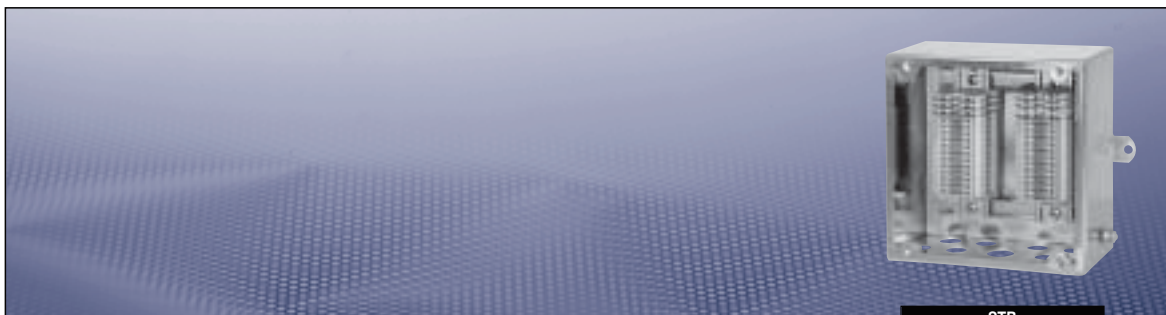
The information provided is based on the physical constraints of the enclosure. Please refer to the certificate for hazardous area applications.

Notes: 1. Dimensions drawing see page 7.63

2. this types can be ordered with additional UL-Certification

3. only this types includes UL-Certification and can be ordered with 1 or 3 gland plates

4. Refer to „OPTIONS“ for full order number detail



Ordering details STB METRIC up to 5 x 79 terminals

STB Size	Dimensions ¹⁾ H x W x D in mm	Fixing Centres ¹⁾ vertical x horizontal	Weight in kg (empty enclosure)	Terminal mounting rail				Terminal content			
				Rail fixing centres		Rail length		Row orientation vertical			
				vert.	horiz.	vert.	horiz.	2.5 (6)	4 (6.5)	6 (8)	10 (10)
Enclosure dimensions and terminal content											
38/38/22²⁾	380x380x220	250x435	8.5	280	300	3x42	3x39	3x32	3x25		
40/60/22²⁾	400x600x220	264x656	13.0	300	320	3x46	3x42	3x34	3x27		
60/40/22²⁾	600x400x220	464x456	13.0	500	520	5x79	5x73	5x59	5x47		

STB	Available glanding area			Max. Entry Guide (metric)								Order No.
	Top & Bottom	Left	Right	Top & Bottom / Left / Right								
Size	(with gland plates fitted) in mm			M16	M20	M25	M32	M40	M50	M63		
Gland entry detail												
38/38/22 ²⁾	374x203	374x203	324x203	100/100/88	57/57/48	40/40/33	24/24/20	15/15/12	8/8/7	6/6/5	STBS13838220	
40/60/22 ²⁾	594x203	394x203	344x203	164/108/92	93/60/51	65/40/35	40/26/22	26/17/14	14/9/7	11/7/6	STBS14060220	
60/40/22 ²⁾	337x124	337x124	337x124	108/164/152	60/93/84	40/65/60	26/40/38	17/26/23	9/14/13	7/11/10	STBS16040220	

Options			
STB Painted	STB PS 1XXYYZZ	STB with gland 1 plate²⁾	STB S 1XXYYZZ 1
STB with gland 3 plate³⁾	STB S 1XXYYZZ 3		

Type	Order No.
Example	
38/38/22 316L SS with 3 gland plates incl. UL-certification	STBS13838223

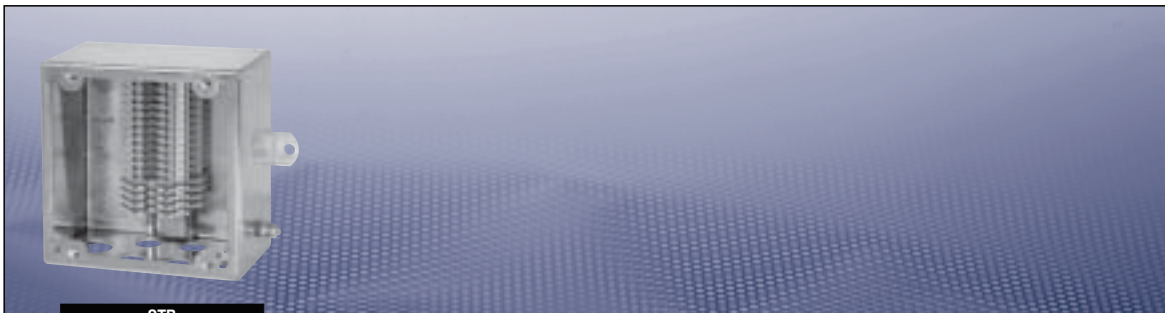
The information provided is based on the physical constraints of the enclosure. Please refer to the certificate for hazardous area applications.

Notes: 1. Dimensions drawing see page 7.63

2. only this types includes UL-Certification and can be ordered with 1 or 3 gland plates

3. Refer to „OPTIONS“ for full order number detail

Ex-e Terminal enclosures



STB

Ordering details STB IMPERIAL up to 21 terminals

STB Size	Dimensions ¹⁾ H x W x D in inches	Fixing Centres ¹⁾ vertical x horizontal	Weight in lbs (empty enclosure)	Terminal mounting rail				Terminal content			
				Rail fixing centres		Rail length		Row orientation vertical			
				vert.	horiz.	vert.	horiz.	2.5 (6)	4 (6.5)	6 (8)	10 (10)
Enclosure dimensions and terminal content											
12/12/08 ²⁾	4.72x4.72x3.15	5.71x5.71	3.08	2.44	3.23			1x 8	1x 6	1x 5	1x 4
15/12/08 ²⁾	5.91x4.72x3.15	6.89x6.89	3.52	3.54	4.33			1x13	1x11	1x 8	1x 7
15/15/09 ²⁾	5.91x5.91x3.54	6.89x6.89	4.18	3.54	4.33			1x13	1x11	1x 8	1x 7
19/15/09 ²⁾	7.48x5.91x3.54	6.89x6.89	5.06	5.12	5.91			1x21	1x18	1x13	1x10

STB	Available glanding area			Max. Entry Guide (imperial) Top & Bottom / Left / Right							Order No.
	Top & Bottom	Left	Right	Gland (first row)							
				Hub (second row)							
Size	(with gland plates fitted) in inches			1½" NPT	¾" NPT	1" NPT	1¼" NPT	1½" NPT	2" NPT	2½" NPT	
Gland entry detail											
12/12/08 ²⁾	4.49x2.48	4.49x2.48	2.76x2.48	6/6/3	3/3/1	2/2/1	2/2/1	–	–	–	STBS1121208
				2/2/1	2/2/1	2/2/1	–	–	–	–	
15/12/08 ²⁾	4.49x2.48	5.67x2.48	3.94x2.48	6/8/5	3/3/2	2/3/2	2/2/1	–	–	–	STBS1151208
				2/3/2	2/3/2	2/2/1	–	–	–	–	
15/15/09 ²⁾	5.67x2.87	5.67x2.87	3.94x2.87	8/8/5	6/6/4	3/3/2	2/2/1	2/2/1	–	–	STBS1151509
				3/3/2	3/3/2	2/2/1	2/2/1	–	–	–	
19/15/09 ²⁾	5.67x2.87	7.24x2.87	5.12x2.87	8/11/7	6/9/6	3/4/2	2/3/2	2/2/1	–	–	STBS1191509
				3/4/3	3/3/2	2/3/2	2/2/2	–	–	–	

Options			
STB Painted	STB PS 1XXYYZZ	STB with additional UL CERT ²⁾	STB <u>S</u> 1XXYYZZ UL
STB with gland 1 plate ³⁾	STB <u>S</u> 1XXYYZZ <u>1</u>	STB with gland 3 plate ³⁾	STB <u>S</u> 1XXYYZZ <u>3</u>

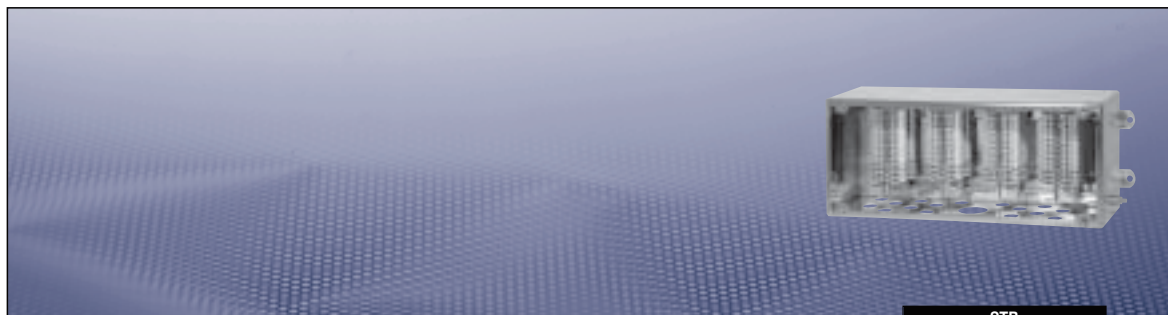
Type	Order No.
Example	
15/15/09 painted with 3 gland plates and UL-certification	STBPS151509UL

The information provided is based on the physical constraints of the enclosure. Please refer to the certificate for hazardous area applications.

Notes: 1. Dimensions drawing see page 7.63

2. only this types includes UL-Certification and can be ordered with 1 or 3 gland plates

3. Refer to „OPTIONS“ for full order number detail



STB

Ordering details STB IMPERIAL up to 3 x 31 terminals

STB	Dimensions ¹⁾	Fixing	Weight in lbs (empty enclosure)	Terminal mounting rail				Terminal content			
	H x W x D in inches	Centres ¹⁾ vertical x horizontal		Rail fixing centres		Rail length		Row orientation vertical			
Size				vert.	horiz.	vert.	horiz.	2.5 (6)	4 (6.5)	6 (8)	10 (10)
Enclosure dimensions and terminal content											
19/19/10 ³⁾	7.48x 7.48x3.94	8.46x8.46	6.60	5.12		5.91		1x21	1x18	1x13	1x10
25/25/12 ³⁾	9.48x 9.84x4.72	10.83x10.83	8.14	7.09		7.87		2x31	2x26	2x19	2x15
16/38/12 ³⁾	6.30x14.96x4.72	3.15x15.94	8.14	11.81		12.60		1x55	1x46	1x34	1x28
25/40/13 ³⁾	9.84x15.75x5.12	5.91x16.73	11.88	7.09		7.87		3x31	3x26	3x19	3x15

STB	Available glanding area			Max. Entry Guide (imperial) Top & Bottom / Left / Right								Order No.
	Top & Bottom	Left	Right	Gland (first row)				Hub (second row)				
Size	(with gland plates fitted) in inches			1/2" NPT	3/4" NPT	1" NPT	1 1/4" NPT	1 1/2" NPT	2" NPT	2 1/2" NPT		
Gland entry detail												
19/19/10 ³⁾	7.24x3.27	7.24x3.27	7.24x3.27	17/17/12	9/9/6	7/7/5	3/3/2	2/2/2	2/2/1	–	STBS1191910	
				8/8/6	3/3/3	3/3/2	2/2/2	2/2/1	–	–		
25/25/12 ³⁾	9.61x4.06	9.61x4.06	7.87x4.06	23/23/18	18/18/14	10/10/8	7/7/6	3/3/3	3/3/2	2/2/2	STBS1252512	
				11/11/9	9/9/7	8/8/6	3/3/3	3/3/2	2/2/2	2/2/2		
16/38/12 ³⁾	14.65x4.06	6.06x4.06	12.99x4.06	36/14/29	29/11/23	16/6/12	12/4/9	5/2/4	4/1/3	3/1/3	STBS1163812	
				17/6/15	15/5/13	12/4/11	5/2/5	5/2/4	4/1/3	3/1/3		
25/40/13 ³⁾	15.51x4.45	9.61x4.45	13.78x4.45	50/30/44	30/18/27	17/10/15	13/7/11	6/3/5	5/3/4	4/2/3	STBS1254013	
				27/17/24	16/9/14	13/8/11	6/3/5	5/3/4	4/2/4	4/2/3		

Options

STB Painted	STB PS 1XXYYZZ	STB with additional UL CERT ²⁾	STB S 1XXYYZZ UL
STB with gland 1 plate ³⁾	STB S 1XXYYZZ 1	STB with gland 3 plate ³⁾	STB S 1XXYYZZ 3

Type	Order No.
Example	
16/38/12 316L SS with 1 gland plate with UL-certification	STBS11638121UL

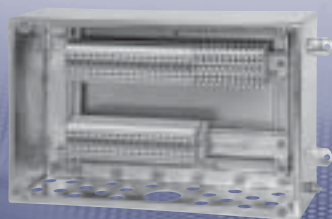
The information provided is based on the physical constraints of the enclosure. Please refer to the certificate for hazardous area applications.

Notes: 1. Dimensions drawing see page 7.63

2. only this types includes UL-Certification and can be ordered with 1 or 3 gland plates

3. Refer to „OPTIONS“ for full order number detail

Ex-e Terminal enclosures



STB

Ordering details STB IMPERIAL up to 5 x 79 terminals

STB Size	Dimensions ¹⁾ H x W x D in inches	Fixing Centres ¹⁾ vertical x horizontal	Weight in lbs (empty enclosure)	Terminal mounting rail				Terminal content			
				Rail fixing centres		Rail length		Row orientation vertical			
				vert.	horiz.	vert.	horiz.	2.5 (6)	4 (6.5)	6 (8)	10 (10)
Enclosure dimensions and terminal content											
38/38/22²⁾	14.96x14.96x8.66	9.84x17.13	18.70	11.02	11.81	3x42	3x39	3x32	3x25		
40/60/22²⁾	15.75x23.62x8.66	10.39x25.83	28.60	11.81	12.60	3x46	3x42	3x34	3x27		
60/40/22²⁾	23.62x15.75x8.66	18.27x17.95	28.60	19.69	20.47	5x79	5x73	5x59	5x47		

STB	Available glanding area			Max. Entry Guide (imperial) Top & Bottom / Left / Right							Order No.
	Top & Bottom	Left	Right	Gland (first row)							
				Hub (second row)							
Size	(with gland plates fitted) in inches			1½" NPT	¾" NPT	1" NPT	1¼" NPT	1½" NPT	2" NPT	2½" NPT	
Gland entry detail											
38/38/22 ²⁾	14.72x7.99	14.72x7.99	12.76x7.99	84/84/70	57/57/48	40/40/33	24/24/20	15/15/12	8/8/7	6/6/5	STBS13838220
				43/43/38	30/30/26	24/24/22	15/15/14	14/14/11	7/7/6	6/6/5	
40/60/22 ²⁾	23.39x7.99	15.51x7.99	13.54x7.99	137/88/77	93/60/51	65/43/35	40/26/22	26/17/14	14/9/7	11/7/6	STBS14060220
				70/45/40	48/32/26	42/26/22	26/17/14	23/14/12	12/8/7	11/7/5	
60/40/22 ²⁾	15.51x7.99	23.39x7.99	21.42x7.99	88/137/123	60/93/84	43/65/58	26/40/36	17/26/23	9/14/13	7/11/10	STBS16040220
				45/70/65	32/48/44	26/42/38	17/26/24	14/23/20	8/12/11	7/11/10	

Options			
STB Painted	STB PS 1XXYYZZ	STB with gland 1 plate²⁾	STB S 1XXYYZZ 1
STB with gland 3 plate²⁾	STB S 1XXYYZZ 3		

Type	Order No.
Example	
38/38/22 painted with 3 gland plates incl. UL-certification	STBS3838223

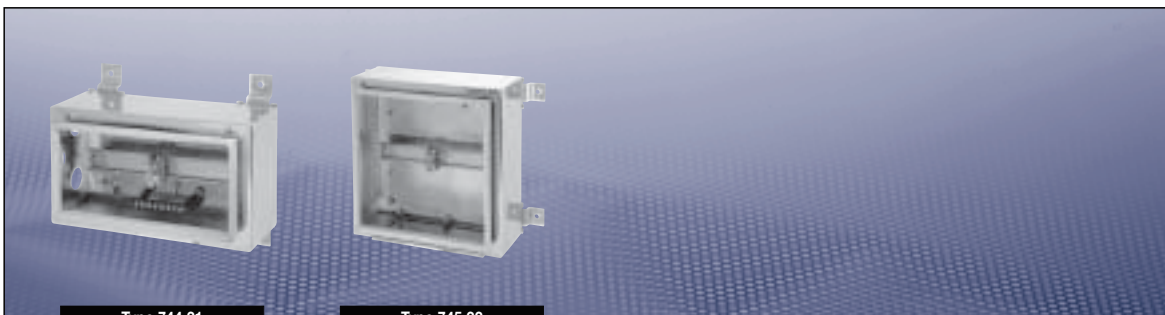
The information provided is based on the physical constraints of the enclosure. Please refer to the certificate for hazardous area applications.

Notes: 1. Dimensions drawing see page 7.63

2. only this types includes UL-Certification and can be ordered with 1 or 3 gland plates

3. Refer to „OPTIONS“ for full order number detail

Ex-e/Ex-i Terminal box



Type 744 21

Type 745 22

Technical data

Type 744 21/745 22/746 23/749 24 up to 296 terminal

Marking to 94/9/EC	Ex II 2 G / EEx e II T6 / EEx ia IIC T6 / EEx e [ia] IIC T6 / Ex II 2 D T80 °C
EC-Type Examination Certificate	PTB 99 ATEX 1044
IECEX certificate of conformity	IECEX BK1 07.0023
Marking accd. to IECEX	Ex de ia/ib m [ia/ib] IIC T4 ... T6 Ex tD A21 IP66 T80 °C
Rated voltage	up to 690 V
Rated current	depends on terminal mounting
Degree of EN 60529	IP66
Enclosure material	Stainless steel AISI 316 L (1.4404)

Type 744 21 up to 40 terminal

Terminal cross section	max. 16 mm ²						
Weight	approx. 3.5 kg						
Max. number drillings/cable glands	M16	M20	M25	M32	M40	M50	M63
down	37	23	15	9	5	3	2
with flange	29	17	12	7	4	2	–
Terminal mounting space on the terminal rail	1 x 230 mm						
Max. number of terminals acc. to certification	2.5 mm ²	4 mm ²	6 mm ²	10 mm ²	16 mm ²	25 mm ²	35 mm ²
	1 x 40	1 x 33	1 x 25	1 x 20	1 x 17	1 x 17	–

Type 745 22 up to 82 terminal

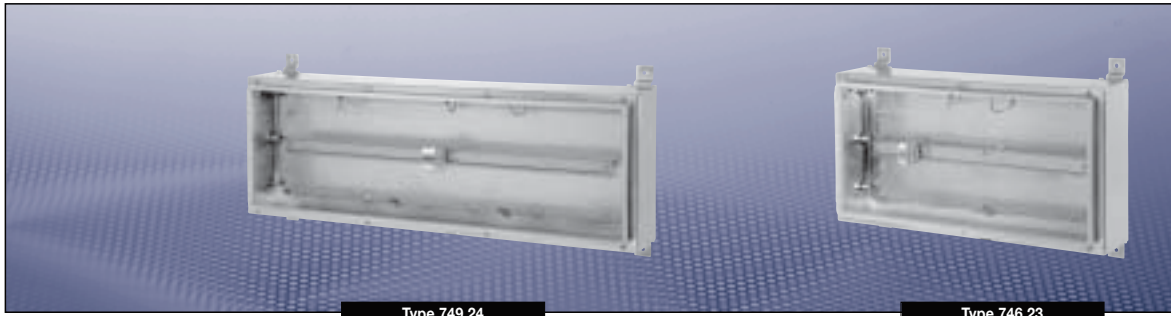
Terminal cross section	max. 70 mm ²						
Weight	approx. 7.5 kg						
Max. number drillings/cable glands	M16	M20	M25	M32	M40	M50	M63
down	37	23	15	9	5	3	2
with flange	29	17	12	7	4	2	–
Terminal mounting space on the terminal rail	2 x 230 mm						
Max. number of terminals acc. to certification	2.5 mm ²	4 mm ²	6 mm ²	10 mm ²	16 mm ²	25 mm ²	35 mm ²
	2 x 41	2 x 34	1 x 26	2 x 20	1 x 17	1 x 17	1 x 14

Type 746 23 up to 188 terminal

Terminal cross section	max. 240 mm ²						
Weight	approx. 11.5 kg						
Max. number drillings/cable glands	M16	M20	M25	M32	M40	M50	M63
down	71	46	30	18	10	6	4
with flange	58	34	24	14	8	4	–
Terminal mounting space on the terminal rail	2 x 510 mm						
Max. number of terminals acc. to certification	2.5 mm ²	4 mm ²	6 mm ²	10 mm ²	16 mm ²	25 mm ²	35 mm ²
	2 x 94	2 x 78	1 x 59	2 x 47	1 x 40	1 x 40	1 x 32

Type 749 24 up to 296 terminal

Terminal cross section	max. 240 mm ²						
Weight	approx. 16.5 kg						
Max. number drillings/cable glands	M16	M20	M25	M32	M40	M50	M63
down	108	69	45	27	15	9	6
with flange	87	51	36	21	12	6	–
Terminal mounting space on the terminal rail	2 x 795 mm						
Max. number of terminals acc. to certification	2.5 mm ²	4 mm ²	6 mm ²	10 mm ²	16 mm ²	25 mm ²	35 mm ²
	2 x 148	2 x 124	1 x 94	2 x 75	1 x 63	1 x 63	1 x 51



Type 749 24

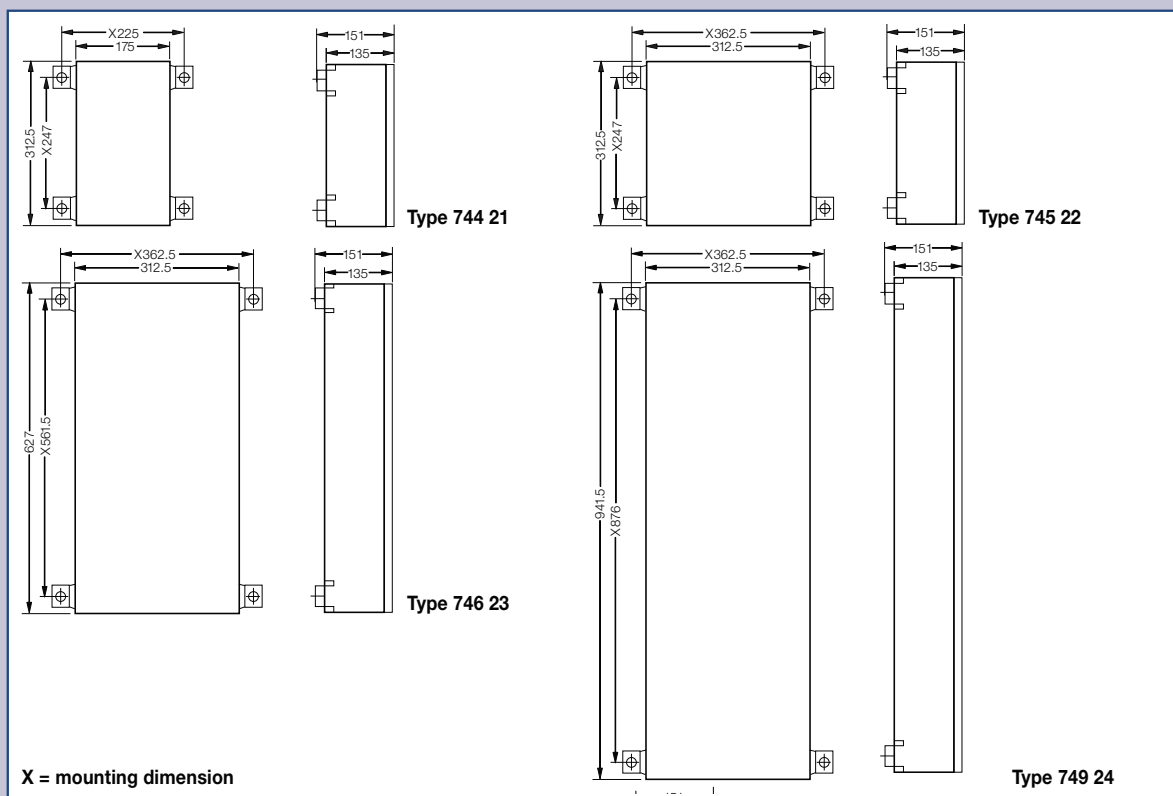
Type 746 23

Ordering details

Type	Cable gland	No. of terminals	Order No.
Terminal boxes 744 21 mounted with screw terminals 2 x 2.5 mm ² + PE-rail 4 mm ²			
Ex-e	1 x Stainless steel down without drilling	1 x Ex-e* 7 x PE	GHG 744 2101 R0001
Terminal boxes 745 22 mounted with screw terminals 2 x 2.5 mm ² + PE-rail 4 mm ²			
Ex-e	1 x Stainless steel down without drilling	1 x Ex-e* 14 x PE	GHG 745 2201 R0001
Terminal boxes 745 22 mounted with screw terminals 2 x 2.5 mm ² + PE-rail 4 mm ²			
Ex-e	2 x Stainless steel down without drilling	1 x Ex-e* 2 x 14 x PE	GHG 746 2301 R0001
Terminal boxes 749 24 mounted with screw terminals 2 x 2.5 mm ² + PE-rail 4 mm ²			
Ex-e	3 x Stainless steel down without drilling	1 x Ex-e* 3 x 14 x PE	GHG 749 2401 R0001

* acc. to type examination certificate individual extensible
Other versions available on request.

Dimension drawing



Dimensions in mm

EX-INTERMEDIATE MOTOR TERMINAL BOXES

**up to 240 mm²
Plastic version for Zone 1**

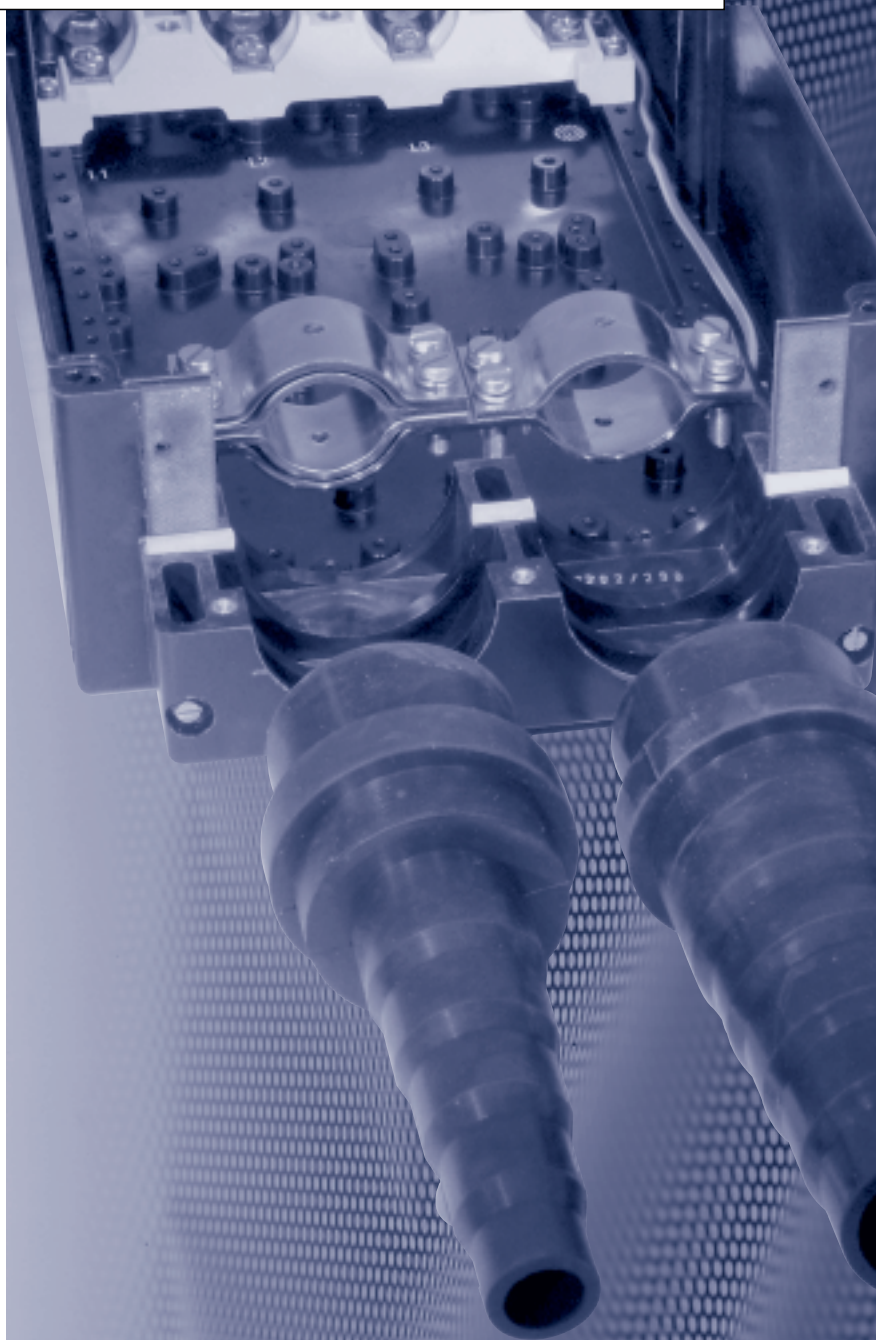
The CEAG connection and junction boxes are for example used in Zones 1, 2, 21 and 22 as junction boxes for the connection of pumps, heating, motordrives etc. in hazardous explosion endangered areas.

The connection and junction boxes are fitted with certified terminals accommodating for 240 mm² according to EN 50 019. For larger terminal cross sections, versions with terminal bolts are also used.

A special version with terminal rails accommodating for 240 mm² and a double cable end box enables the connection of larger terminal cross sections. The cable to be connected is put through the front side and is laid into the double cable terminal box where it is then connected to the terminal bolts on the copper rail.

The terminal boxes are fitted with trumpet shaped cable glands and a strain relief or just a strain relief for a flexible cable outing.

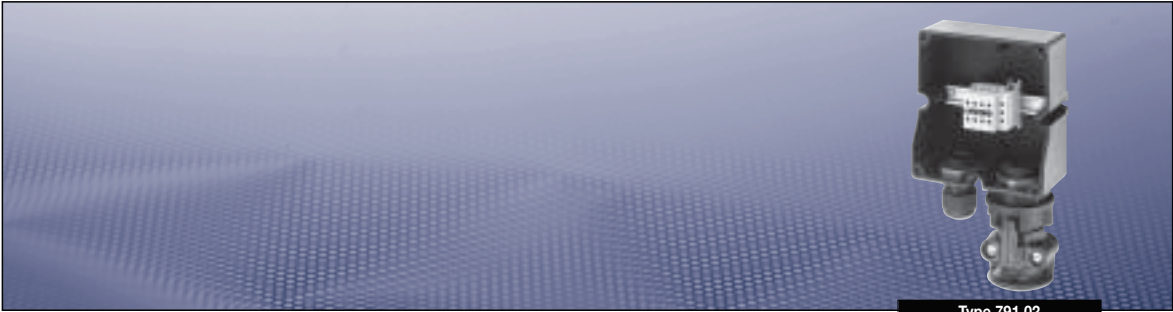
International approvals



Decisive cost reduction with the CEAG mounting system using junction boxes accommodating for 70 mm²

With four cables, connections of up to 240 mm² possible

Mechanical, chemical and thermal durability



Type 791 02

Technical data

Type 791 02

Marking to 94/9/EC	Ⓔ II 2 G EEx e II T6 / Ⓔ II 2 D IP66 T 58 °C
EC-Type Examination Certificate	PTB 00 ATEX 3108
IECEx certificate of conformity	IECEx BKI 07.0034
Marking accd. to IECEx	Ex e II T6 / Ex ia IIC T6 Ex tD A21 IP66 T58 °C
Rated voltage	up to 690 V
Rated current	depends on terminal mounting
Degree of EN 60529	IP66
Enclosure material	Plastic
Terminal cross section	up to 6 mm ²
Weight	approx. 0.7 kg

Ordering details

Type	Cable gland	No. of terminals	Order No.
Type 791 02 mounted with screw terminals 2 x 4 mm ² + 1 x PE-terminal 2 x 4 mm ²			
Ex-e	1 x M25 for cable Ø 8-17 mm 1 x M32 trumpet-shaped gland	4 x Ex-e 1 x PE	GHG 791 0201 R0016

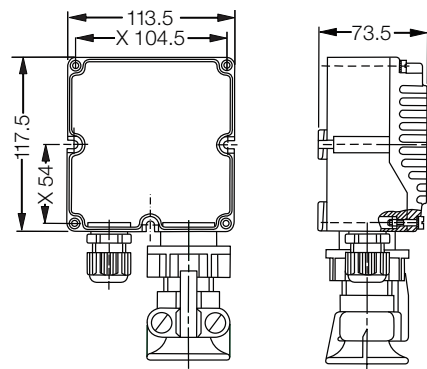
Other versions for cable Ø 15 - 20 mm available on request.

Accessories

Mounting plate for junction box 791 02

Type	Application	Fixing method	Order No.
Size 2	Wall mounting	screwless mounting	GHG 610 1953 R0104
Size 2	Trellis mounting	screwless mounting	GHG 610 1953 R0106
Size 2	Pipe mounting	screwless mounting	GHG 610 1953 R0105
Protective canopy Size 2	for mounting plate size 2		GHG 610 1955 R0102

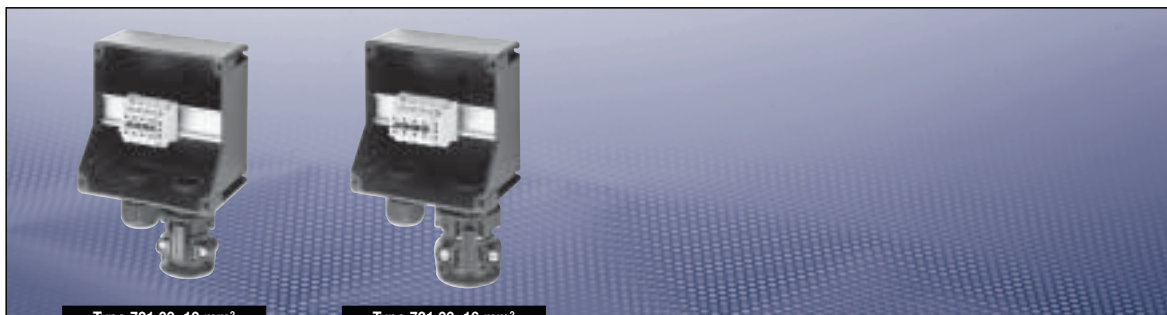
Dimension drawing



Type 791 02

Dimensions in mm

Ex-Intermediate motor terminal boxes 10 mm²/16 mm²



Technical data

Type 721 00

Marking to 94/9/EC	Ⓔ II 2 G EEx e II T6 / EEx ia IIC T6 / Ⓔ II 2 D IP66 T80 °C
EC-Type Examination Certificate	PTB 99 ATEX 1044
IECEX certificate of conformity	IECEX BKI 07.0023
Marking accd. to IECEx	Ex ed ia/ib m [ia/ib] IIC T4 – T6 Ex tD A21 IP66 T80 °C
Rated voltage	up to 690 V
Rated current	depends on terminal mounting
Degree of EN 60529	IP66
Terminal cross section	721 00 max. 10 mm ² / 721 10 max. 16 mm ²
Enclosure material	Glass-fibre reinforced polyester
Weight	721 00 approx. 1.0 kg / 721 10 approx. 1.1 kg

Ordering details

Type	Cable gland	No. of terminals	Order No.
Type 721 00 mounted with screw terminals 2 x 10 mm ² + 1 x PE-terminal 2 x 10 mm ²			
Ex-e	1 x M40 for cable Ø 17-28 mm 1 x M40 trumpet-shaped gland for cable Ø 19-27 mm	4 x Ex-e 1 x PE	GHG 721 0001 R0013

Type	Cable gland	No. of terminals	Order No.
Type 721 00 mounted with screw terminals 2 x 16 mm ² + 1 x PE-terminal 2 x 16 mm ²			
Ex-e	1 x M50 for cable Ø 21-35 mm 1 x M50 trumpet-shaped gland for cable Ø 26-34 mm	4 x Ex-e 1 x PE	GHG 721 0001 R0014

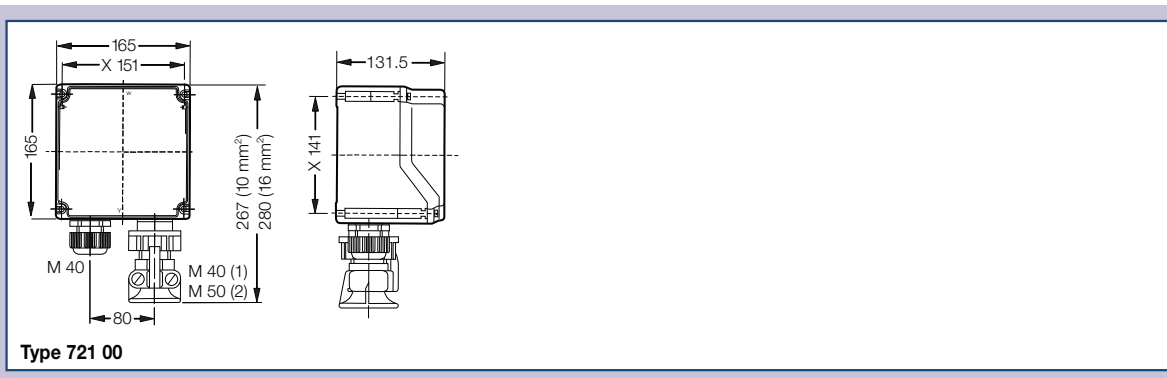
Other versions available on request.

Accessories

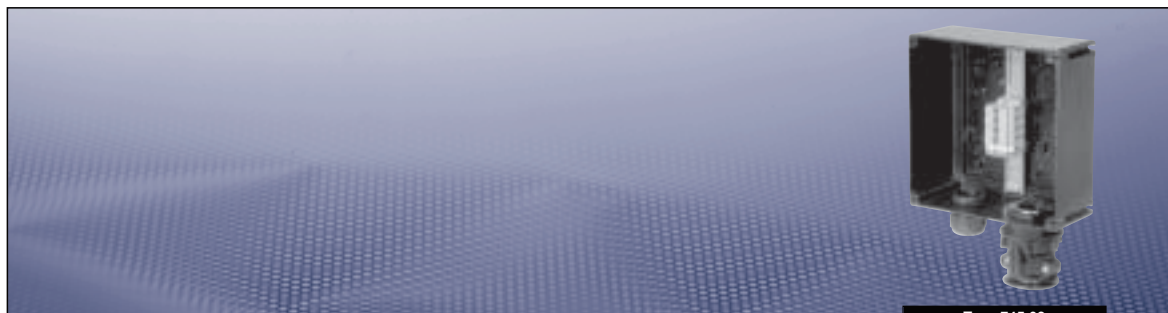
Mounting plate for junction box 721 00

Type	Application	Fixing method	Order No.
Size 2A	Wall mounting	screwless mounting	GHG 610 1953 R0107
Size 2A	Trellis mounting	screwless mounting	GHG 610 1953 R0109
Size 2A	Pipe mounting	screwless mounting	GHG 610 1953 R0108
Protective canopy Size 2A	for mounting plate size 2A		GHG 610 1955 R0103

Dimension drawing



Dimensions in mm



Type 745 02

Technical data

Type 745 02	
Marking to 94/9/EC	Ⓔ II 2 G EEx e II T6 / EEx ia IIC T6 / Ⓔ II 2 D IP66 T80 °C
EC-Type Examination Certificate	PTB 99 ATEX 1044
IECEX certificate of conformity	IECEX BKI 07.0034
Marking accd. to IECEX	Ex ed ia/lb m [ia/lb] IIC T4 – T6 Ex tD A21 IP66 T80 °C
Rated voltage	up to 690 V
Rated current	depends on terminal mounting
Degree of EN 60529	IP66
Enclosure material	Glass-fibre reinforced polyester
Terminal cross section	up to 35 mm ² or max. 70 mm ²
Weight	745 0201 R0002 approx. 3.0 kg / 745 0201 R0003 approx. 3.2 kg

Ordering details

Type	Cable gland	No. of terminals	Order No.
Type 745 02 mounted with screw terminals 2 x 35 mm ² + 1 x PE-terminal 2 x 35 mm ²			
Ex-e	1 x M50 for cable Ø 21-35 mm 1 x M63 trumpet-shaped gland for cable Ø 35-46 mm	4 x Ex-e 1 x PE	GHG 745 0201 R0002

Type	Cable gland	No. of terminals	Order No.
Type 745 02 mounted with screw terminals 2 x 50/70 mm ² + 1 x PE-terminal 2 x 50/70 mm ²			
Ex-e	1 x M50 for cable Ø 21-35 mm 1 x M63 trumpet-shaped gland for cable Ø 35-46 mm	4 x Ex-e 1 x PE	GHG 745 0201 R0003

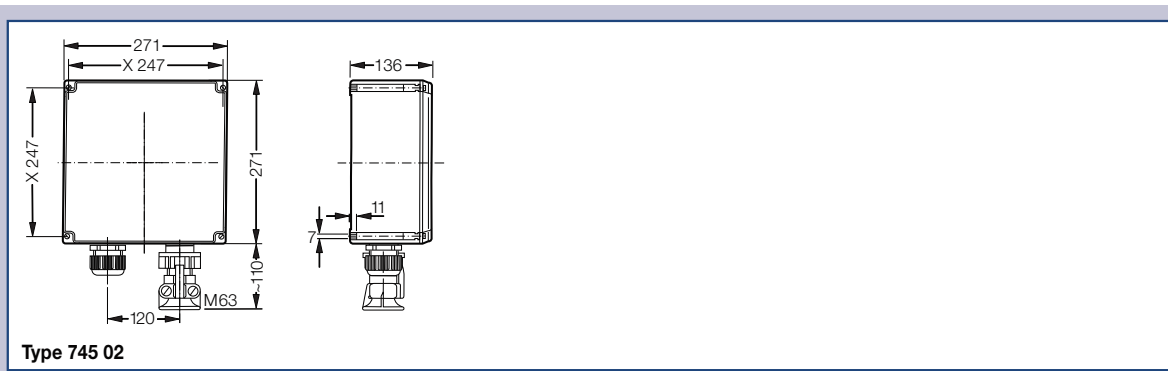
Other versions available on request.

Accessories

Mounting plate for junction box 745 02

Type	Application	Fixing method	Order No.
Size 3	Pipe mounting	screw mounting on 2 plates	GHG 610 1953 R0108
Protective canopy Size 3	for mounting plate size 3		GHG 610 1955 R0104

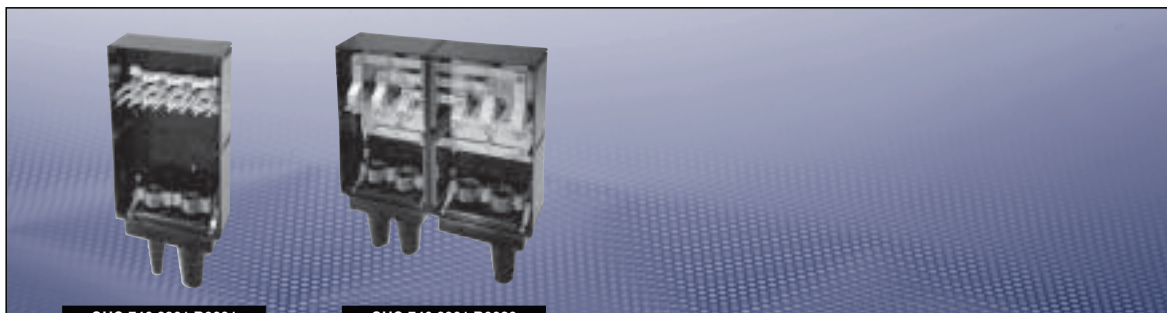
Dimension drawing



Type 745 02

Dimensions in mm

Ex-Intermediate motor terminal boxes 185 mm²/240 mm²



GHG 746 0301 R0001

GHG 746 0301 R0020

Technical data

Type 746 03

Marking to 94/9/EC	Ⓔ II 2 G EEx e II T6 / Ⓔ II 2 D IP66 T80 °C
EC-Type Examination Certificate	PTB 99 ATEX 1044
IECEx certificate of conformity	IECEx BKI 07.0023
Marking accd. to IECEx	Ex de ia/ib m [ia/ib] IIC T4 ... T6 Ex tD A21 IP66 T80 °C
Rated voltage	up to 690 V
Rated current	depends on terminal mounting
Degree of EN 60529	IP54
Cable gland	via double cable pothead
Enclosure material	Glass-fibre reinforced polyester
Terminal cross section	up to 180 mm ² or max. 240 mm ²
Weight	746 0301 R0001 approx. 6.3 kg / 746 0301 R0008 approx. 16.5 kg

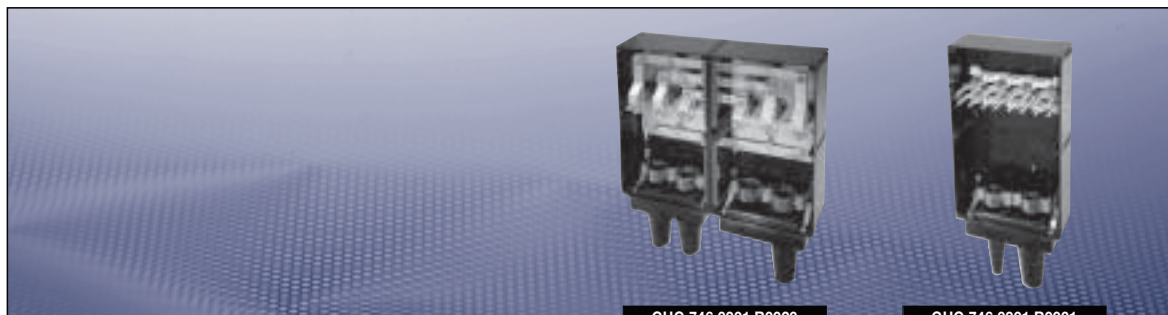
Ordering details

Type	Cable gland	No. of terminals	Order No.
Type 746 03 assembled with bold clamp 2 x 185 mm ² + PE-bold clamp 2 x 185 mm ²			
Ex-e	Double cable and box 1 x Entry sleeve 21-45 mm 1 x Entry sleeve 46-72 mm	3 x Ex-e 1 x PE	GHG 746 0301 R0001

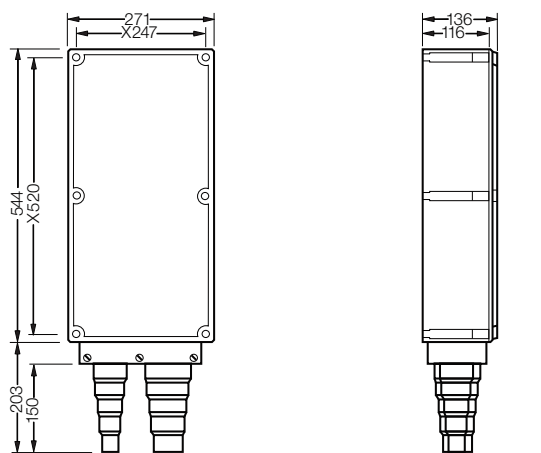
Type	Cable gland	No. of terminals	Order No.
Type 746 03 assembled with bold clamp 240 mm ² + PE-bold clamp 240 mm ²			
Ex-e	Double cable and box 2 x Entry sleeve 46-72 mm	6 x Ex-e 2 x PE	GHG 746 0301 R0008

Type	Cable gland	No. of terminals	Order No.
Type 746 03 assembled with bold clamp 240 mm ² + PE-bold clamp 240 mm ²			
Ex-e	Double cable and box 1 x Entry sleeve 21-45 mm 2 x Entry sleeve 46-72 mm	12 x Ex-e 4 x PE	GHG 746 0301 R0020

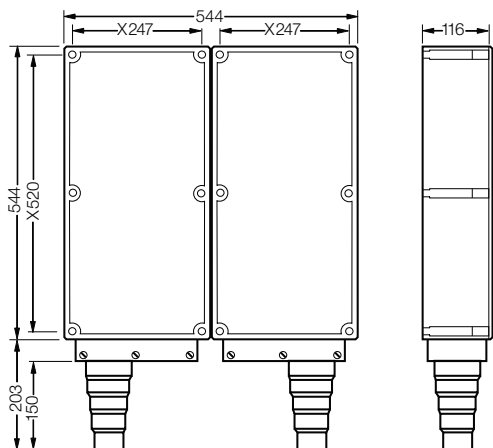
Other versions available on request.



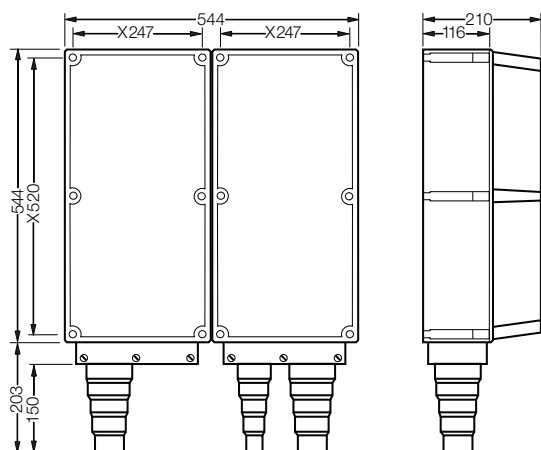
Dimension drawing



GHG 746 0301 R0001



GHG 746 0301 R0008



GHG 746 0301 R0020

X = fixing dimension

Dimensions in mm

FIXING MATERIALS AND ACCESSORIES

Distribution and junction boxes

The CEAG mounting plates are the innovative answer to the customer requested ability for mounting apparatus without having to use tools.

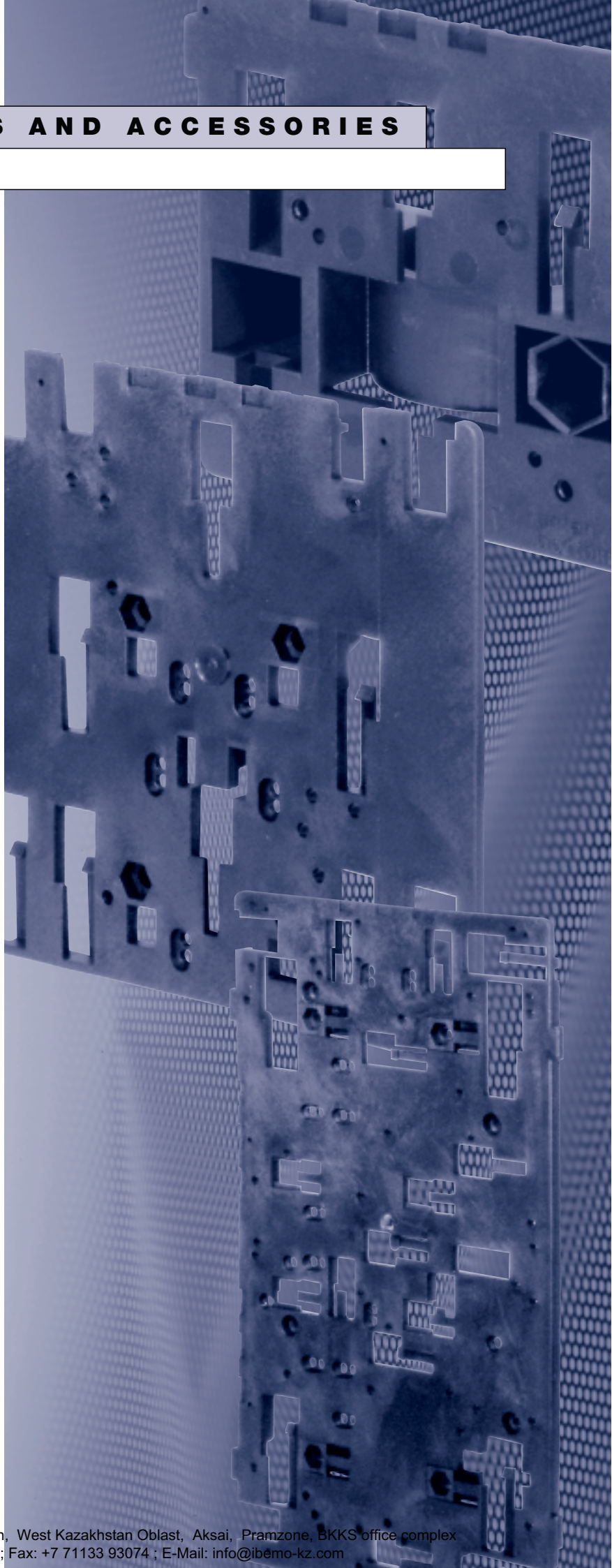
In close cooperation with our customers, this intelligent and innovative solution for the mounting of a variety of terminal boxes and appliances onto trellis, piping and walls was developed.

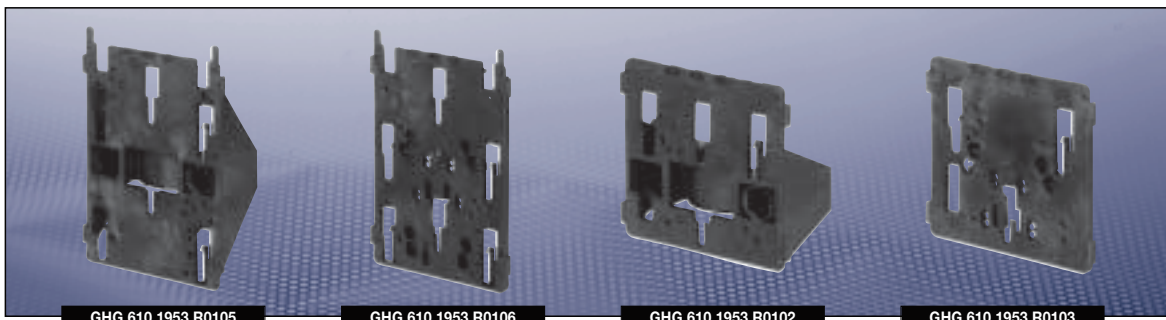
The clip-on mounting system in connection with the CEAG explosion-protected distribution, plugs and sockets and terminal boxes renders a decisive cost reduction.

No "hot work permits" are needed!

Optional clip-on protection canopies made of stainless steel offer protection against aggressive environmental influences, direct sunlight and rain.

- Decisive cost reduction – just clip-it-on
- Quick appliance mounting with clip-on technology – no "hot work permit" needed
- Easy installation of the mounting plates on walls, trellis and pipes
- Universal use as appliance holder – just clip-it-on

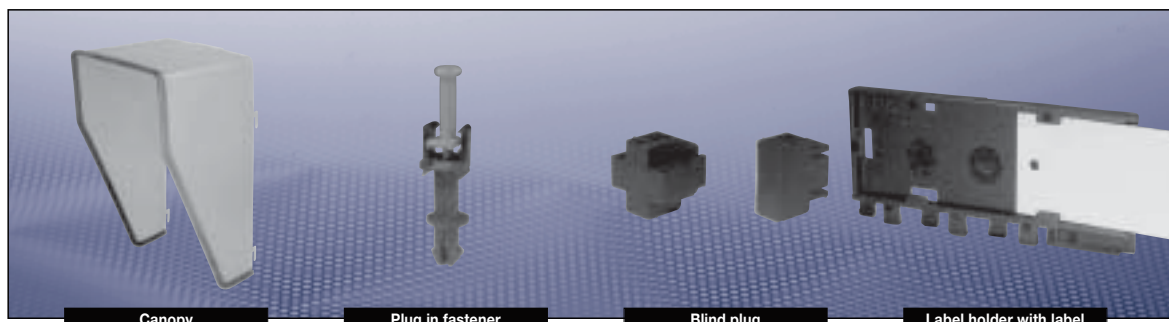




Mounting plates

Type	Application	Order No.
Size 1	Wall mounting	GHG 610 1953 R0101
Size 1	Trellis mounting	GHG 610 1953 R0103
Size 1	Pipe mounting	GHG 610 1953 R0102
Size 2	Wall mounting	GHG 610 1953 R0104
Size 2	Trellis mounting	GHG 610 1953 R0106
Size 2	Pipe mounting	GHG 610 1953 R0105
Size 2A	Wall mounting	GHG 610 1953 R0107
Size 2A	Trellis mounting	GHG 610 1953 R0109
Size 2A	Pipe mounting	GHG 610 1953 R0108
Size 3	Wall mounting	GHG 610 1953 R0118
Size 3	Trellis mounting	GHG 610 1953 R0118
Size 3	Pipe mounting	GHG 610 1953 R0110
Size 4	Wall mounting	GHG 610 1953 R0126
Size 4	Trellis mounting	GHG 610 1953 R0126
Size 4	Pipe mounting	GHG 610 1953 R0130
Size 5	Wall mounting	GHG 610 1953 R0128
Size 5	Trellis mounting	GHG 610 1953 R0128
Size 5	Pipe mounting	GHG 610 1953 R0132

■ Fitting materials and accessories ■



Accessories

For mounting plate

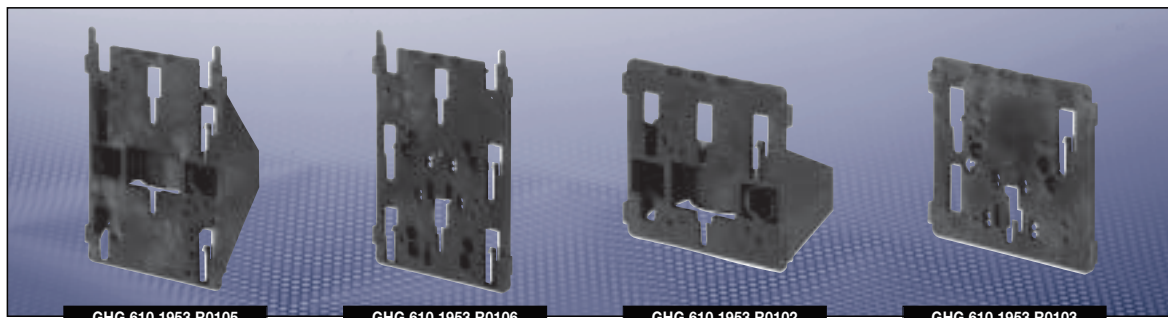
Type	OU	Order No.
Label holder with type label (blank) for mounting plates size 1, 2, 2A and 3	10	GHG 610 1953 R0057
Type label for label holder and mounting plates size 4 and size 5	10	GHG 610 1953 R0011
Blind plug for unused fixing points of mounting plates size 4 and size 5	10	GHG 610 1953 R0134
Plug-in fastener for CEAG modules with 5.5 mm and 11 mm fixing elements 1 set = 4 pcs.	10	GHG 610 1953 R0041
Mounting set for pipes 1" (Ø 27 - 30 mm) for mounting plates with pipe fixing	10	GHG 610 1953 R0020

The order No. will show 1 pcs.

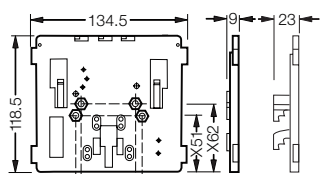
Please note that only pack quantities (OU) can be ordered.

Protective canopy for mounting plate

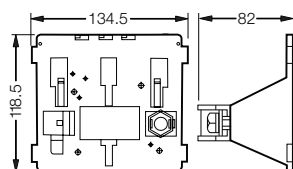
Type	Application	Order No.
Size 1	for mounting plate size 1	GHG 610 1955 R0101
Size 2	for mounting plate size 2	GHG 610 1955 R0102
Size 2A	for mounting plate size 2A	GHG 610 1955 R0103
Size 3	for mounting plates pipe fixing size 3 vertically	GHG 610 1955 R0104
Size 3A	for mounting plates wall/trellis fixing size 3 vertically	GHG 610 1955 R0105
Size 3B	for mounting plates pipe fixing size 3 horizontal	GHG 610 1955 R0106
Size 4	for mounting plate size 4	GHG 610 1955 R0107
Size 5	for mounting plate size 5	GHG 610 1955 R0108



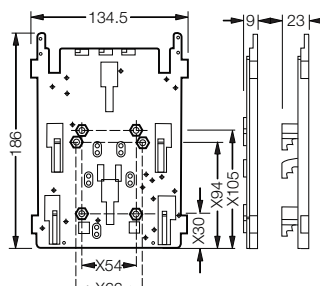
Dimensions



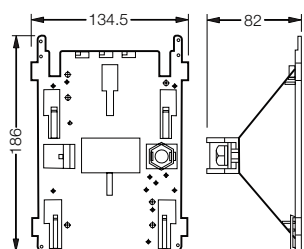
Size 1 for wall- and trellis mounting



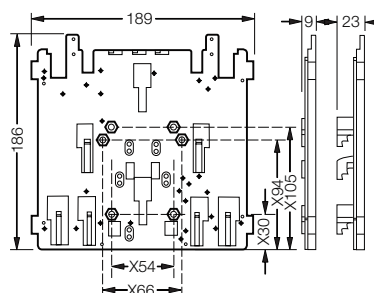
Size 1 for pipe mounting



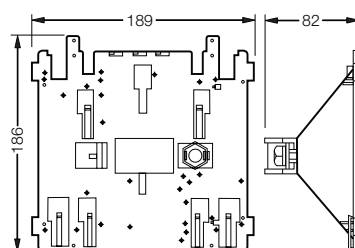
Size 2 for wall- and trellis mounting



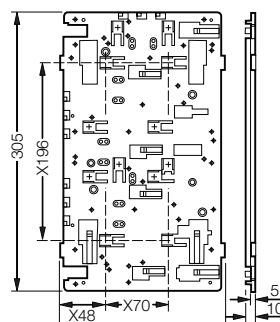
Size 2 for wall- and trellis mounting



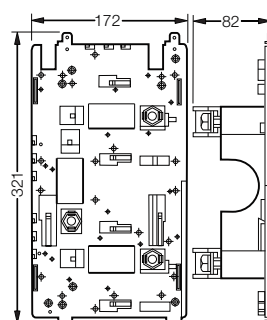
Size 2A for wall- and trellis mounting



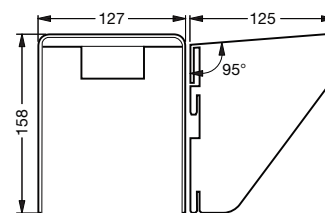
Size 2A for pipe mounting



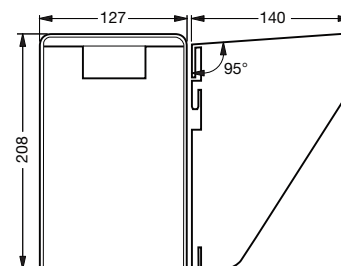
Size 3 for wall- and trellis mounting



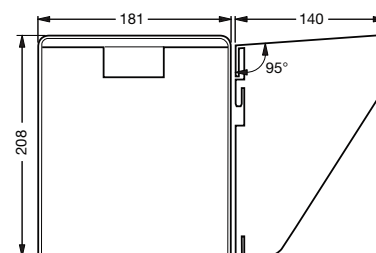
Size 3 for pipe mounting



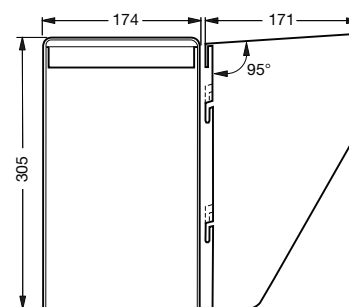
Canopy Size 1



Canopy Size 2

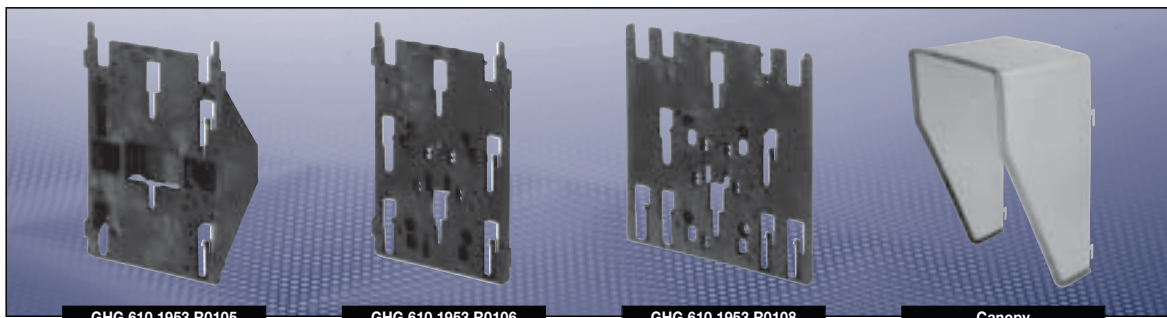


Canopy Size 2A

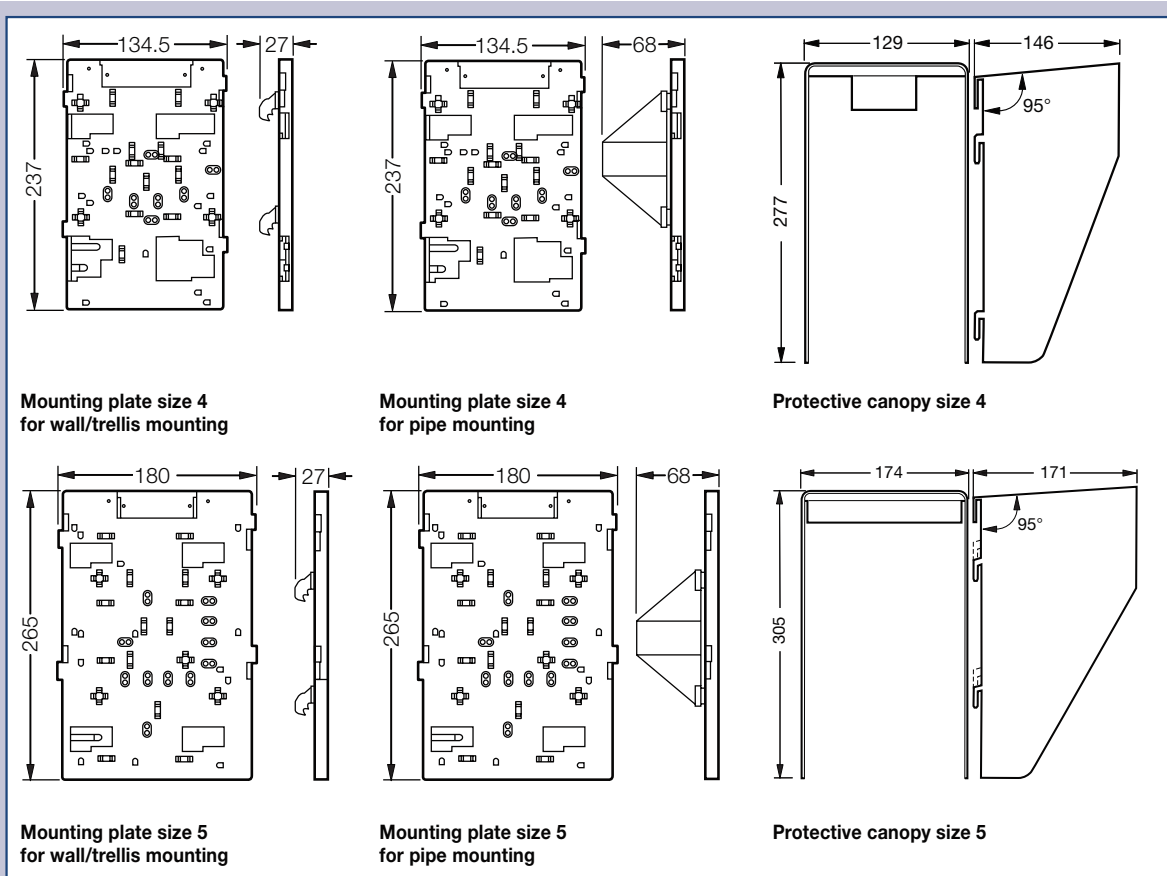


Canopy Size 3B

Dimensions in mm



Dimensions



Dimensions in mm