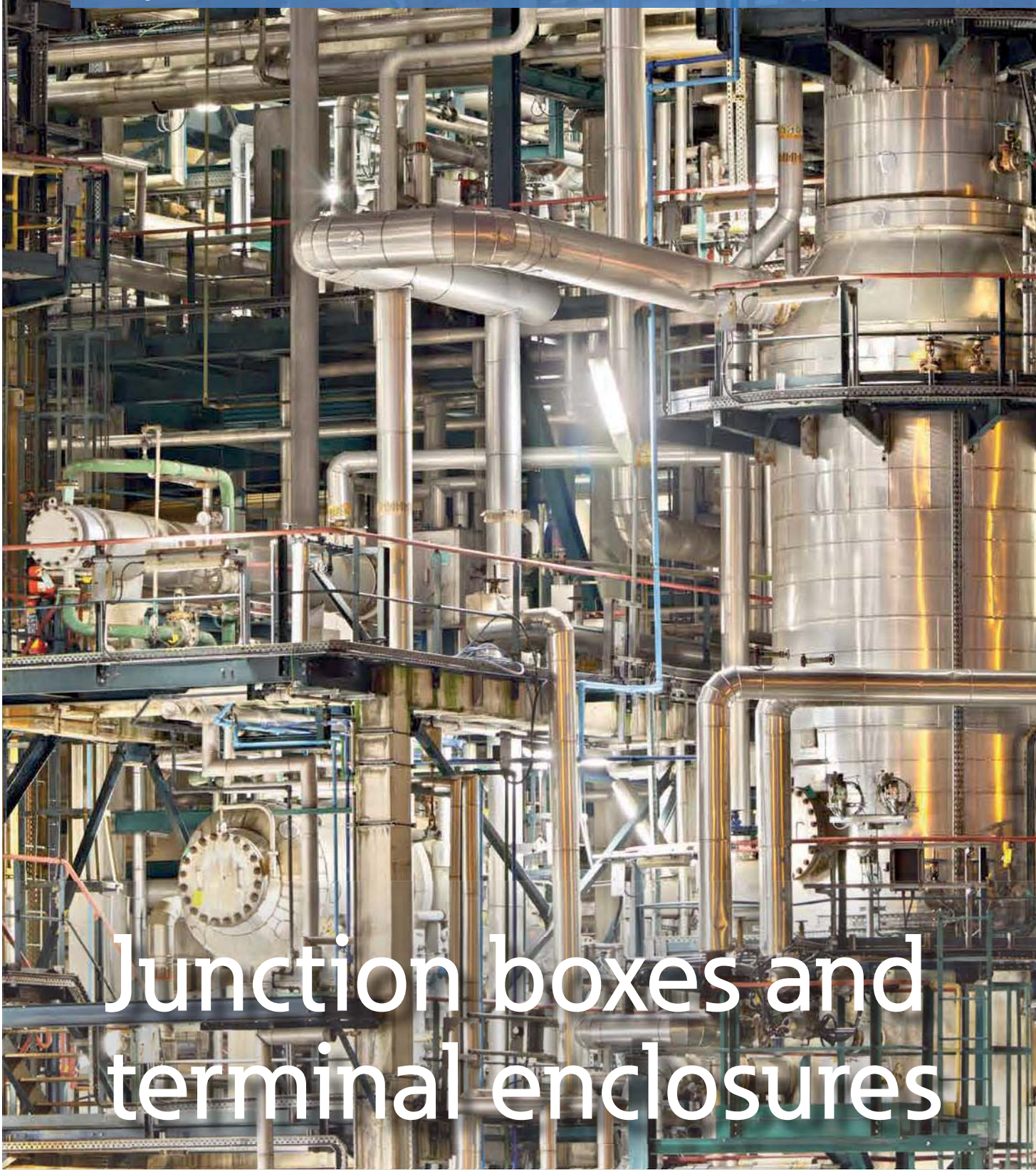


Junction boxes and terminal enclosures

Table of contents

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 of EMC terminal boxes for use in instrumentation and control applications are met with our metal and interior coated housings.
The coating in combination with the affordable cable entries shield off the sensitive instrumentation areas against unwanted external radiation fields.
Increased safety Ex-e type connection or terminal boxes are used in nearly every country in the world. In comparison to the flame-proof encapsulates versions, they are much cheaper and generally easier to install.

User-friendly technology and cost saving installation

Large terminal compartments allow for easy installation or retrofitting of wiring. In addition cost-saving terminal arrangements according to the customer's specification speed up the total installation time.
Our 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 combine 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. Cover 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 configurations as well as gland plates pre-manufactured according to the customer's requirements offer more flexibility for instrumentation and control installations using the Ex-e and Ex-i technologies.

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

n addition to ATEX certification testing, many other certification procedures are performed prior to the product leaving the factory.

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

GHG 791 Ex-Junction Box

Plastic version for Zone 1, 2, 21 and 22

Robust enclosures for harsh environments

The robust junction boxes made of plastic and light alloy are featured by their simple 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 problem-free access to the connection terminals for installation.

Easy to install

With the CEAG mounting system, the plastic junction boxes can be economically used 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.

Metal glands available

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).

Features

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

GHG 791 0201 R0001

GHG 791 0201 R0006

GHG 791 0101 R0002

GHG 791 0101 R0001

Technical data

	GHG 791 01 up to 6 terminals / GHG 791 02 up to 8 terminals
Marking accd. to 2014/34/EU	Ⓔx II 2 G Ex e IIC T5/T6 Gb / Ⓔx II 2 D Ex tb IIIC T80°C Db
EU-Type Examination Certificate	BVS 16 ATEX E 031
IECEx Certificate of Conformity	IECEx BVS 16.0024
Marking accd. to IECEx	Ex e IIC T5/T6 Gb Ex tb IIIC T80°C Db
Permissible ambient temperature	–20 °C to +40 °C / -55 C to +55 °C (option)
Rated voltage	690 V / 550 V[1)]
Terminal cross section	max. 3 x 4 mm² max. 3 x 6 mm² or 4 x 4 mm² solid-wire
Protection class	I
Degree of protection accd. to EN 60529	IP66
Enclosure material	Polyamide

	GHG 791 01 up to 6 terminals
Cable entry/enclosure drilling	max. 4 x M25 Ø 10 - 17 mm max. 4 x M20 metal thread
Connecting terminals	4 x + 1 PE
Rated current	max. 32 A, depends on terminal cross section
Dimensions (L x W x H)	81.5 x 100 x 61 mm
Weight	approx. 0.3 kg

	GHG 791 02 up to 8 terminals
Cable entry/enclosure drilling	max. 6 x M25 Ø 10 - 17 mm max. 6 x M32 cable gland max. 6 x M20 metal thread
Connecting terminals	6 x + 2 PE
Rated current	max. 28 A, depends on terminal cross section
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

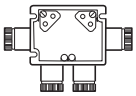
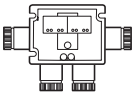
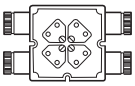
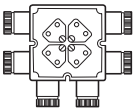
GHG 791 0101 R0001

GHG 791 0101 R0019

GHG 791 0101 R0068

GHG 791 0201 R0006

Ordering details

Content	Cable gland	No. of terminals	Order No.
GHG 791 01 up to 6 terminals			
	2 x M25 Ø 10-17 mm	4 x Ex-e, 1 x PE	**GHG 791 0101 R0001**
	4 x M25 Ø 10-17 mm incl. 2 x blanking plug M25	4 x Ex-e, 1 x PE	**GHG 791 0101 R0002**
	4 x M20 metal thread incl. 2 x threaded plug M20	4 x Ex-e, 1 x PE	**GHG 791 0101 R0019**
	4 x M25 Ø 10-17 mm incl. 2 x blanking plug M25	4 x 4 Ex-e[1)], 2 x PE	**GHG 791 0101 R0069**
	4 x M20 metal thread incl. 2 x threaded plug M20	4 x 4 Ex-e[1)], 2 x PE	**GHG 791 0101 R0068**
GHG 791 02 up to 8 terminals			
	4 x M25 Ø 10-17 mm incl. 2 x blanking plug M25	6 x Ex-e, 2 x PE	**GHG 791 0201 R0006**
	4 x M32 cable gland incl. 2 x blanking plug M32	6 x Ex-e, 2 x PE	**GHG 791 0201 R0007**
	6 x M25 Ø 10-17 mm incl. 4 x blanking plug M25	6 x Ex-e, 2 x PE	**GHG 791 0201 R0001**
	6 x M32 cable gland incl. 4 x blanking plug M32	6 x Ex-e, 2 x PE	**GHG 791 0201 R0002**
	6 x M20 metal thread incl. 4 x threaded plug M20	8 x Ex-e, 1 x PE	**GHG 791 0201 R0003**

Other applications available on request.

[1)] Cage clamp terminal, certified only according ATEX directive. Permissible ambient temperature -20°C up to + 40 °C

Accessories

Type	Application	Fixing method	Order No.
Mounting plate for junction box 791 01			
Size 1	Wall mounting	snap on	**GHG 610 1953 R0101**
Size 1	for trellis mounting	snap on	**GHG 610 1953 R0103**
Size 1	pipe clamp	snap on	**GHG 610 1953 R0102**
Protective canopy size 2	for mounting plate size 1		**GHG 610 1955 R0101**

Type	Application	Fixing method	Order No.
Mounting plate for junction box 791 02			
Size 2	Wall mounting	snap on	**GHG 610 1953 R0104**
Size 2	for trellis mounting	snap on	**GHG 610 1953 R0106**
Size 2	pipe clamp	snap on	**GHG 610 1953 R0105**
Protective canopy size 2	for mounting plate size 2		**GHG 610 1955 R0102**

Details for accessories see page 2.2.80 up to 2.2.84.

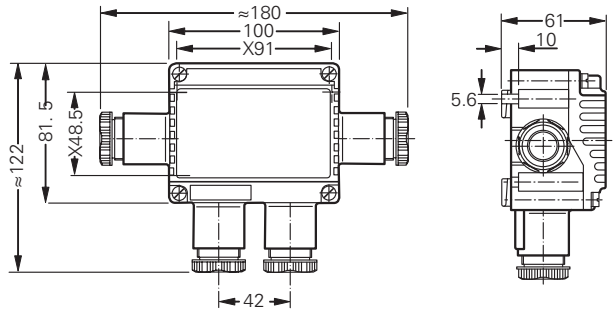
GHG 791 0201 R0006

GHG 791 0101 R0068

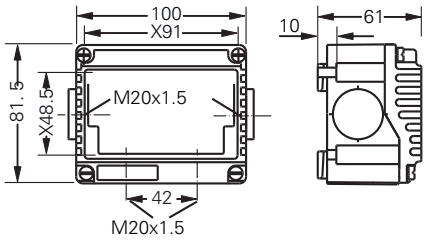
GHG 791 0101 R0019

GHG 791 0101 R0001

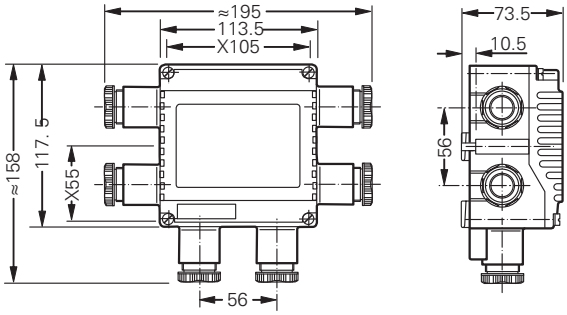
Dimension drawing



Type 791 01

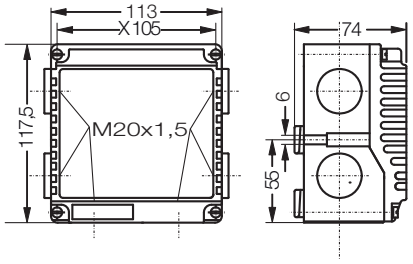


Type 791 01 for metal cable glands



Type 791 02

X = fixing dimensions



Type 791 02 for metal cable glands

Dimensions in mm

GHG 793 Ex-Junction Box

Light metal design for Zone 1, 2, 21 and 22

Light metal for harsh environments

The sturdy CEAG junction boxes made of light metal are used to distribute and conduct electricity in Zone 1 and Zone 2 areas with 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

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.

Features

- **Mechanical, chemical and thermal resistance**
- **Impact-resistant plastic powder coating**

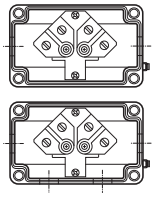
GHG 793 0101 R0002

GHG 793 0101 R0001

Technical data

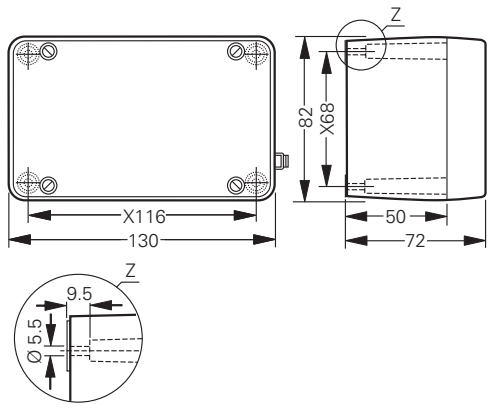
	Type 793 01 up to 5 terminals
Marking accd. to 2014/34/EU	Ⓔx II 2 G Ex dem ia II, IIC T6 / Ⓔx II 2 D Ex tD A21 IP66 T80 °C
EC-Type Examination Certificate	PTB 00 ATEX 3108
Permissible ambient temperature	–20 °C to +40 °C –55 °C to +55 °C (option)
Rated voltage	690 V
Rated current	depends on terminal cross section
Terminal cross section	max. 3 x 4 mm² or 1 x 10 mm² with pin cable lug + 1 x 2.5 mm² fine wire max. 3 x 6 mm² or 4 x 4 mm² solid-wire
Protection class	I
Degree of protection accd. to EN 60529	IP66
Cable entry/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 (AISI)
Enclosure colour	light grey

Ordering details

Content	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



Type 793

X = fixing dimensions

Dimensions in mm

Universal Terminal Boxes

Ex-e/Ex-i Technology

2 plastic version measuring and controlling for Zone 1, 2, 21 and 22

Connecting your field devices

The terminal boxes were designed for measuring and controlling utilization in Ex-e and Ex-i applications. 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.

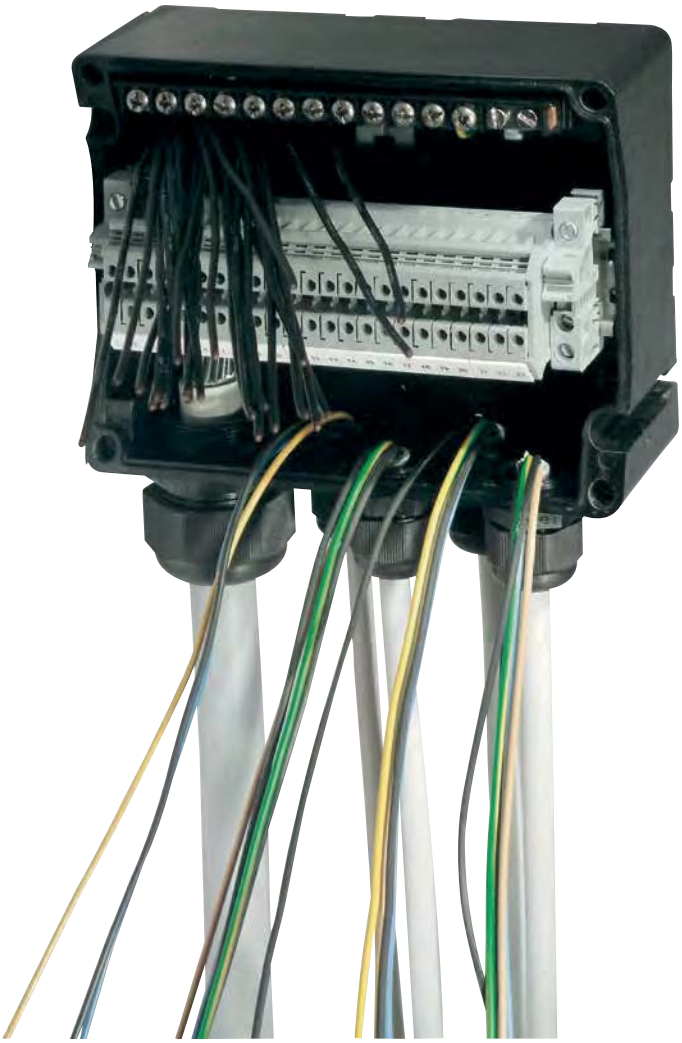
The new terminal boxes for instrumentation installations are available in 5 sizes, ranging from 6 to max. 60 connection terminals. The optional interior coating protects your data cable connections against external radiation fields. The choice between screw and tension spring (screwless) terminals for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

Easy to install

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.



Features

- **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.
The table "Max. number of terminals" is based on the mechanical conditions of the terminal enclosure such as length of mounting rail and height the terminals. It is based on common terminal types such as Phoenix© or Wago©. The permissible number of terminals in terms of the type examination certificate must be checked in each individual case based on the current load tables in the operating instructions.

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 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 mm²						
	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	Length	x	Height
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	Height
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

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 I GHG 791 02 up to 12 terminals
Marking accd. to 2014/34/EU	Ⓔx II 2 G Ex e IIC T5/T6 Gb / Ⓔx II 2 D Ex tb IIIC T80°C Db
EC-Type Examination Certificate	BVS 16 ATEX E 031
IECEx Certificate of Conformity	IECEx BVS 16.0024
Marking accd. to IECEx	Ex e IIC T5/T6 Gb Ex tb IIIC T80°C Db
Permissible ambient temperature	–20 °C to +40 °C / -55 C to +55 °C (option)
Rated voltage	690 V
Protection class	I
Degree of protection accd. to EN 60529	IP66
Enclosure material	Polyamide
Enclosure colour	black

	GHG 791 01 up to 6 terminals
Rated current	max. 32 A
Connecting terminals	up to 6 mm^2
Cable entry/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. 28 A
Connecting terminals	up to 6 mm^2
Cable entry/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

GHG 791 0201 R0008

GHG 791 0201 R0011

GHG 791 0101 R0005

GHG 791 0101 R0003

Ordering details

Content	Cable gland	No. of terminals	Order No.
Type 791 01 up to 6 terminals assembled with screw terminals 2 x 2.5 mm² + PE/PA-terminals 2 x 4 mm²			
Ex-e	1 x M25 cable gland 1 x M25 for 2 cable 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 cable gland 1 x M25 for 2 cable 1 x blanking plug for Ø 4.5-7 mm	6 x Ex-i 4 x PE/PA	**GHG 791 0101 R0004**
Ex-e	1 x M25 cable gland 2 x M12 cable gland 1 x blanking plug for M12	6 x Ex-e 4 x PE/PA	**GHG 791 0101 R0005**
Ex-i	1 x M25 cable gland 2 x M12 cable gland 1 x blanking plug for M12	6 x Ex-i 4 x PE/PA	**GHG 791 0101 R0006**
Type 791 01 up to 6 terminals assembled with screwless terminals 2 x 2.5 mm² + PE/PA-terminals 2 x 4 mm²			
Ex-i	1 x M25 cable gland 1 x M25 for 2 cable 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 cable gland 2 x M12 cable gland 1 x blanking plug for M12	6 x Ex-e 1 x PE/PA	**GHG 791 0101 R0009**
Ex-i	1 x M25 cable gland 1 x M12 cable gland 1 x blanking plug for M12	6 x Ex-i 1 x PE/PA	**GHG 791 0101 R0010**
Type 791 02 up to 12 terminals assembled with screw terminals 2 x 2.5 mm² + PE/PA-terminals 2 x 4 mm²			
Ex-e	1 x M25 cable gland 1 x M32 for 4 cable 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 cable gland 1 x M32 for 4 cable 2 x blanking plug for Ø 4.5-7 mm	12 x Ex-i 4 x PE/PA	**GHG 791 0201 R0009**
Ex-e	1 x M25 cable gland 4 x M12 cable gland 2 x blanking plug for M12	12 x Ex-e 4 x PE/PA	**GHG 791 0201 R0010**
Ex-i	1 x M25 cable gland 4 x M12 cable gland 2 x blanking plug for M12	12 x Ex-i 4 x PE/PA	**GHG 791 0201 R0011**
Type 791 02 up to 12 terminals assembled with screwless terminals 2 x 2.5 mm² + PE/PA-terminals 2 x 4 mm²			
Ex-i	1 x M25 cable gland 1 x M32 for 4 cable 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 cable gland 4 x M12 cable gland 2 x blanking plug for M12	12 x Ex-e 4 x PE/PA	**GHG 791 0201 R0014**
Ex-i	1 x M25 cable gland 4 x M12 cable gland 2 x blanking plug for M12	12 x Ex-i 4 x PE/PA	**GHG 791 0201 R0015**

Other applications available on request.

GHG 791 0101 R0003

GHG 791 0101 R0005

GHG 791 0201 R0011

GHG 791 0201 R0008

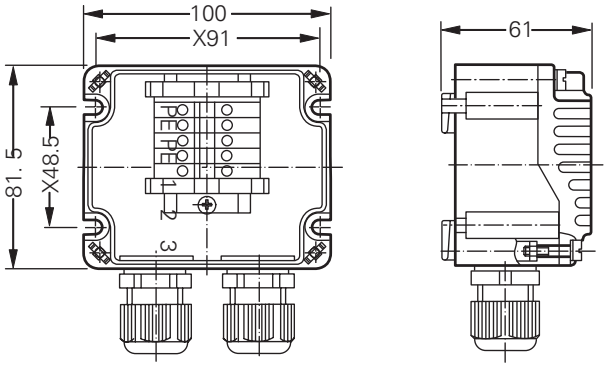
Accessories

Type	Application	Fixing method	Order No.
Mounting plate for junction box 791 01			
Size 1	Wall mounting	snap on	**GHG 610 1953 R0101**
Size 1	Trellis mounting	snap on	**GHG 610 1953 R0103**
Size 1	Pipe clamp	snap on	**GHG 610 1953 R0102**
Protective canopy size 1	for mounting plate size 1		**GHG 610 1955 R0101**

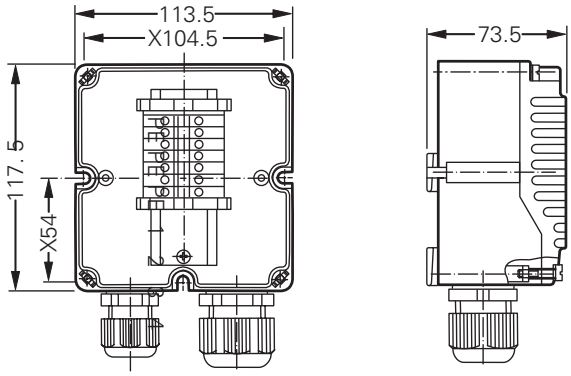
Type	Application	Fixing method	Order No.
Mounting plate for junction box 791 02			
Size 2	Wall mounting	snap on	**GHG 610 1953 R0104**
Size 2	Trellis mounting	snap on	**GHG 610 1953 R0106**
Size 2	Pipe clamp	snap on	**GHG 610 1953 R0105**
Protective canopy size 2	for mounting plate size 2		**GHG 610 1955 R0102**

Details for accessories see page 2.2.80 up to 2.2.84.

Dimension drawing



Type 791 01



Type 791 02

X = fixing dimensions

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 I GHG 731 12 up to 24 terminals
Marking accd. to 2014/34/EU	Ex II 2 G Ex e IIC T4/T5/T6 Gb / Ex II 2 D Ex tb IIIC T80 °C/T95 °C Db IP6X
EC-Type Examination Certificate	BVS 13 ATEX E 037X
IECEx Certificate of Conformity	IECEx BVS 13.0045X
Marking accd. to IECEx	Ex e IIC T6/T5 Gb Ex tb IIIC T80 °C/T95 °C Db IP6X
Permissible ambient temperature	–20 °C to +40 °C –55 °C to +55 °C (option)
Rated voltage	690 V
Rated current	depends on terminal mounting
Protection class	I
Degree of protection accd. to 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						
Drillings/cable glands Max. number up/down	M12 15	M16 8	M20 6	M25 4	M32 2	M40 2	M50 1
Terminal mounting space on the terminal rail	107 mm						
Max. number of terminals acc. to certification	2.5 mm^2 16	4 mm^2 14	6 mm^2 10	10 mm^2 8	16 mm^2 8		

	GHG 731 12 up to 24 terminals						
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						
Drillings/cable glands Max. number up/down	M12 24	M16 17	M20 10	M25 6	M32 3	M40 3	M50 2
Terminal mounting space on the terminal rail	169 mm						
Max. number of terminals acc. to certification	2.5 mm^2 28	4 mm^2 24	6 mm^2 18	10 mm^2 18	16 mm^2 14		

GHG 731 1102 R0531

GHG 731 1102 R1485

GHG 731 1202 R0387

GHG 731 1202 R1345

Ordering details

Content	Cable gland	Terminals	Order No.
Type 731 11 up to 16 terminals assembled with screw terminals 2 x 2.5 mm² + PE/PA-rail 2.5 mm²			
Ex-e	without drilling	1 x Ex-e*/UT 2.5 N/7 x PE/PA	**GHG 731 1102 R0531**
Ex-e	without drilling	14 x Ex-e/UT 4 N/7 x PE/PA	**GHG 731 1102 R1088**
Ex-e	4 x M25	16 x Ex-e/UT 2.5 N/7 x PE/PA	**GHG 731 1102 R1485**
Type 731 12 up to 24 terminals assembled with screw terminals 2 x 2.5 mm² + PE/PA-rail 2.5 mm²			
Ex-e	without drilling	1 x Ex-e*/UT 2.5 N/14 x PE/PA	**GHG 731 1202 R0387**
Ex-e	without drilling	24 x Ex-e/UT 4 N/14 x PE/PA	**GHG 731 1202 R0976**
Ex-e	6 x M25	28 x Ex-e/UT 2.5 N/14 x PE/PA	**GHG 731 1202 R1345**

* according to type examination certificate individual extensible

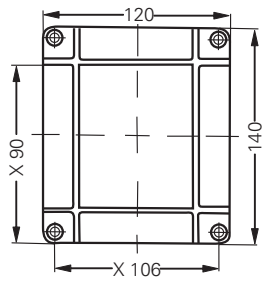
Accessories

Type	Application	Fixing method	Order No.
Mounting plate for junction box 731 11			
Size 2	Wall mounting	snap on	**GHG 610 1953 R0104**
Size 2	Trellis mounting	snap on	**GHG 610 1953 R0106**
Size 2	Pipe clamp	snap on	**GHG 610 1953 R0105**
Protective canopy size 2	for mounting plate size 2		**GHG 610 1955 R0102**

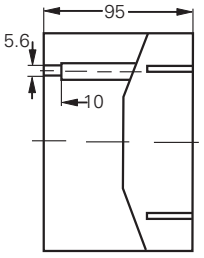
Type	Application	Fixing method	Order No.
Mounting plate for junction box 731 12			
Size 2A	Wall mounting	snap on	**GHG 610 1953 R0107**
Size 2A	Trellis mounting	snap on	**GHG 610 1953 R0109**
Size 2A	Pipe clamp	snap on	**GHG 610 1953 R0108**
Protective canopy size 2A	for mounting plate size 2A		**GHG 610 1955 R0103**

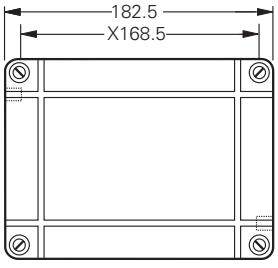
Details for accessories see page 2.2.80 up to 2.2.84.

Dimension drawing

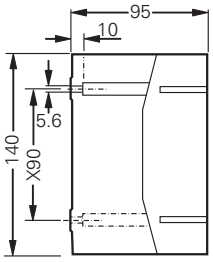


Type 731 11





Type 731 12



X = fixing dimensions

Dimensions in mm

GHG 721 1001 R0013

GHG 721 1001 R0003

GHG 721 0001 R0005

GHG 721 0001 R0001

Technical data

	GHG 721 00 up to 26 terminals I GHG 721 10 up to 48 terminals
Marking accd. to 2014/34/EU	Ex II 2 G Ex e IIC T4/T5/T6 Gb / Ex II 2 D Ex tb IIIC T80 °C/T95 °C Db IP6X
EC-Type Examination Certificate	BVS 13 ATEX 013X
IECEx Certificate of Conformity	IECEx BVS 13.0031X
Marking accd. to IECEx	Ex e IIC T4/T5 Gb Ex tb IIIC T80 °C/T95 °C/ Db IP6X
Permissible ambient temperature	–20 °C to +40 °C –55 °C to +55 °C (option)
Rated voltage	690 V
Rated current	depends on terminal mounting
Protection class	I
Degree of protection accd. to 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							
Drillings/cable glands	M12	M16	M20	M25	M32	M40	M50	M63
Max. number down	35	20	12	11	6	4	2	2
Max. number flange plastic	11	6	4	3	2	1	1	–
Max. number 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 26	4 mm^2 22	6 mm^2 17	10 mm^2 13	16 mm^2 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 150 mm							
Weight	approx. 1.7 kg							
Drillings/cable glands	M12	M16	M20	M25	M32	M40	M50	M63
Max. number down	75	42	32	21	11	8	4	3
Max. number flange plastic	46	25	20	11	8	4	3	2
Max. number 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 48	4 mm^2 40	6 mm^2 30	10 mm^2 24	16 mm^2 20			

GHG 721 0001 R0001

GHG 721 0001 R0011

GHG 721 1001 R0003

GHG 721 1001 R0004

Ordering details

Content	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 cable gland 3 x M32 for 4 cable	24 x Ex-e 12 x PE/PA	**GHG 721 0001 R0005**
Ex-i	1 x M32 cable gland 3 x M32 for 4 cable	24 x Ex-i 12 x PE/PA	**GHG 721 0001 R0006**
Ex-e	1 x M32 cable gland 12 x M20 cable gland	24 x Ex-e 12 x PE/PA	**GHG 721 0001 R0007**
Ex-i	1 x M32 cable gland 12 x M20 cable gland	24 x Ex-i 12 x PE/PA	**GHG 721 0001 R0008**
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 cable gland 3 x M32 for 4 cable	24 x Ex-i 12 x PE/PA	**GHG 721 0001 R0010**
Ex-e	1 x M32 cable gland 12 x M20 cable gland	24 x Ex-e 12 x PE/PA	**GHG 721 0001 R0011**
Ex-i	1 x M32 cable gland 12 x M20 cable gland	24 x Ex-i 12 x PE/PA	**GHG 721 0001 R0012**
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 Ø 16-28 mm 6 x M32 for 4 cable	48 x Ex-i 24 x PE/PA	**GHG 721 1001 R0013**
Ex-e	1 x M40 Ø 16-28 mm 24 x M20 cable gland	48 x Ex-e 24 x PE/PA	**GHG 721 1001 R0004**
Ex-i	1 x M40 Ø 16-28 mm 24 x M20 cable gland	48 x Ex-i 24 x PE/PA	**GHG 721 1001 R0015**
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 Ø 16-28 mm 6 x M32 for 4 cable	48 x Ex-i 24 x PE/PA	**GHG 721 1001 R0017**
Ex-e	1 x M40 Ø 16-28 mm 24 x M20 cable gland	48 x Ex-e 24 x PE/PA	**GHG 721 1001 R0018**
Ex-i	1 x M40 Ø 16-28 mm 24 x M20 cable gland	48 x Ex-i 24 x PE/PA	**GHG 721 1001 R0019**

[1] according to type examination certificate individual extensible
Other versions available on request

GHG 721 1001 R0004

GHG 721 1001 R0003

GHG 721 0001 R0011

GHG 721 0001 R0001

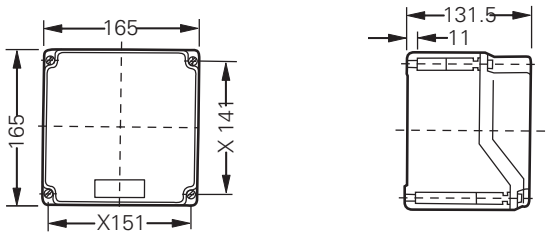
Accessories

Type	Application	Fixing method	Order No.
Mounting plate for junction box 721 00			
Size 2A	Wall mounting	screwless mounting	**GHG 610 1953 R0107**
Size 2A	Trellis mounting	screwless mounting	**GHG 610 1953 R0109**
Size 2A	Pipe clamp	screwless mounting	**GHG 610 1953 R0108**
Protective canopy size 2A	for mounting plate size 2A		**GHG 610 1955 R0103**

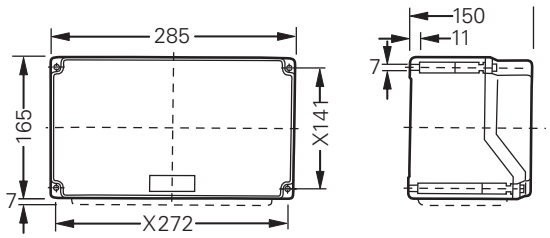
Type	Application	Fixing method	Order No.
Mounting plate for junction box 721 10			
Size 3	Wall mounting	screwless mounting	**GHG 610 1953 R0107**
Size 3	Trellis mounting	screwless mounting	**GHG 610 1953 R0109**
Size 3	Pipe clamp	screwless mounting	**GHG 610 1953 R0108**
Protective canopy size 3	for mounting plate size 3		**GHG 610 1955 R0104**

Details for accessories see page 2.2.80 up to 2.2.84.

Dimension drawing



Type 721 00



Type 721 10

X = fixing dimensions

Dimensions in mm

GHG 744 0101 R0005

Type 745 02

GHG 745 0201 R0012

Technical data

	GHG 744 01 up to 40 terminals I GHG 745 02 up to 82 terminals
Marking accd. to 2014/34/EU	⟨Ex⟩ II 2 G Ex e IIC T4/T5/T6 Gb / Ex e ib [ia/ib] IIC T4/T5/T6 Gb / ⟨Ex⟩ II 2 D Ex tb IIIC T80 °C/T95 °C Db IP6X
EC-Type Examination Certificate	BVS 12 ATEX E 118X
IECEx Certificate of Conformity	IECEx BVS 12.0071X
Marking accd. to IECEx	Ex e IIC T4/T5/T6 Gb Ex tb IIIC T80 °C/T95 °C Db IP6X
Permissible ambient temperature	–20 °C to +40 °C –55 °C to +55 °C (option)
Rated voltage	690 V
Rated current	depends on terminal mounting
Protection class	I
Degree of protection accd. to EN 60529	IP66
Enclosure material	glass-fibre reinforced polyester
Enclosure colour	black

	GHG 744 01 up to 31 terminals							
Connecting terminals	up to 25 mm^2							
Dimensions (L x W x H)	271 x 134 x 136 mm							
Weight	approx. 1.5 kg							
Drillings/cable glands	M12	M16	M20	M25	M32	M40	M50	M63
Max. number down	60	36	26	18	10	7	4	3
Max. number flange plastic	46	25	20	11	8	4	3	2
Max. number 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	35 mm^2	
	38	31	24	20	17	15	7	

	GHG 745 02 up to 82 terminals								
Connecting terminals	up to 70 mm^2								
Dimensions (L x W x H)	271 x 271 x 136 mm								
Weight	approx. 2.5 kg								
Drillings/cable glands	M12	M16	M20	M25	M32	M40	M50	M63	
Max. number down	60	36	26	18	10	7	4	3	
Max. number flange plastic	46	25	20	11	8	4	3	2	
Max. number flange metal	–	–	11	9	5	3	3	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	50 mm^2	70 mm^2
	38	31	24	20	17	16	15	9	9

GHG 745 0201 R0012

Type 745 02

GHG 744 0101 R0005

Ordering details

Content	Cable gland	No. of terminals	Order No.
Type 744 01 up to 31 terminals assembled with screw terminals 2 x 4 mm² + PE-rail 4 mm²			
Ex-e	1 x palstic 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 4 mm² + PE/PA-rail 4 mm²			
Ex-e	1 x palstic 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 mm² + PE/PA-rail 4 mm²			
Ex-i	1 x M50 cable gland 8 x M32 for 4 cable	60 x Ex-i 27 x PE/PA	**GHG 745 0201 R0012**
Ex-e	1 x M50 cable gland 30 x M16 cable gland	60 x Ex-e 27 x PE/PA	**GHG 745 0201 R0013**
Ex-i	1 x M50 cable gland 30 x M16 cable gland	60 x Ex-i 27 x PE/PA	**GHG 745 0201 R0014**
Ex-e	1 x M50 cable gland 24 x M20 cable gland	60 x Ex-e 27 x PE/PA	**GHG 745 0201 R0015**
Ex-i	1 x M50 cable gland 24 x M20 cable gland	60 x Ex-i 27 x PE/PA	**GHG 745 0201 R0021**
Type 745 02 up to 82 terminals assembled with screwless terminals 2 x 2.5 mm² + PE/PA-rail 4 mm²			
Ex-i	1 x M50 cable gland 8 x M32 for 4 cable	60 x Ex-i 27 x PE/PA	**GHG 745 0201 R0016**
Ex-e	1 x M50 cable gland 30 x M16 cable gland	60 x Ex-e 27 x PE/PA	**GHG 745 0201 R0017**
Ex-i	1 x M50 cable gland 30 x M16 cable gland	60 x Ex-i 27 x PE/PA	**GHG 745 0201 R0018**
Ex-e	1 x M50 cable gland 24 x M20 cable gland	60 x Ex-e 27 x PE/PA	**GHG 745 0201 R0020**
Ex-i	1 x M50 cable gland 24 x M20 cable gland	60 x Ex-i 27 x PE/PA	**GHG 745 0201 R0022**

[1)] according to type examination certificate individual extensible
Other versions available on request

GHG 744 0101 R0005

Type 745 02

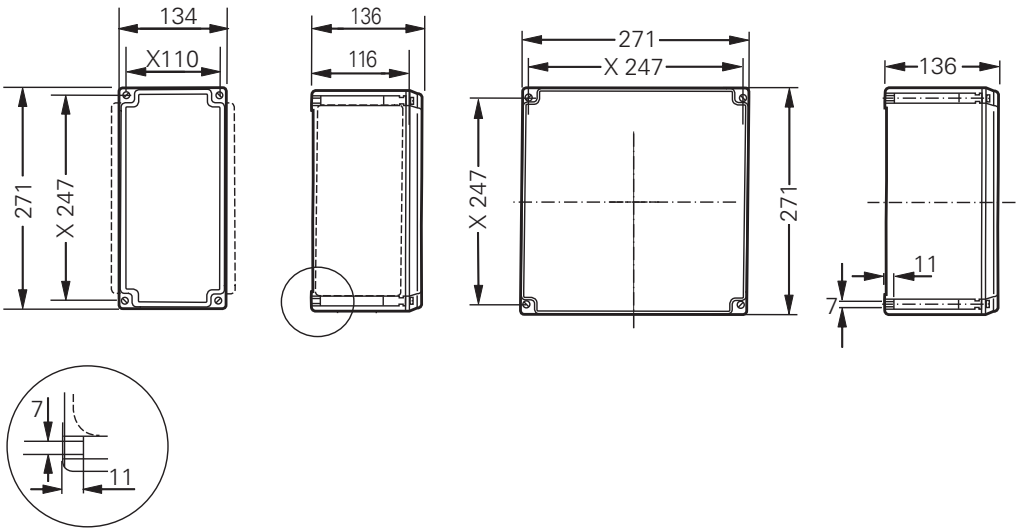
GHG 745 0201 R0012

Accessories

Type	Application	Fixing method	Order No.
Mounting plate for junction box 744 01			
Size 3	Wall mounting	screwless mounting	**GHG 610 1953 R0118**
Size 3	Trellis mounting	screwless mounting	**GHG 610 1953 R0118**
Size 3	Pipe clamp	screwless mounting	**GHG 610 1953 R0110**
Protective canopy size 3	for mounting plate size 3		**GHG 610 1955 R0104**

Details for accessories see page 2.2.80 up to 2.2.84.

Dimension drawing



Type 744 01 **Type 745 02** **X = fixing dimensions**

Dimensions in mm

Type 749 04

Type 746 03

Technical data

	GHG 746 03 up to 188 terminals I GHG 749 04 up to 296 terminals
Marking accd. to 2014/34/EU	Ⓔx II 2 G Ex e IIC T4/T5/T6 Gb / Ex e ib [ia/ib] IIC T4/T5/T6 Gb / Ⓔx II 2 D Ex tb IIIC T80 °C/T95 °C Db IP6X
EC-Type Examination Certificate	BVS 12 ATEX E 118X
IECEx Certificate of Conformity	IECEx BVS 12.0071X
Marking accd. to IECEx	Ex e IIC T4/T5/T6 Gb Ex tb IIIC T80 °C/T95 °C Db IP6X
Permissible ambient temperature	–20 °C to +40 °C –55 °C to +55 °C (option)
Rated voltage	690 V
Rated current	depends on terminal mounting
Protection class	I
Degree of protection accd. to EN 60529	IP66
Enclosure material	glass-fibre reinforced polyester
Enclosure colour	black

	GHG 746 03 up to 188 terminals							
Connecting terminals	300 mm²							
Dimensions (L x W x H)	544 x 271 x 136 mm							
Weight	approx. 4.2 kg							
Drillings/cable glands	M12	M16	M20	M25	M32	M40	M50	M63
Max. number down	120	72	52	36	20	14	8	6
Max. number flange plastic	46	25	20	11	8	4	3	2
Max. number 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 mm²	4 mm²	6 mm²	10 mm²	16 mm²	25 mm²	35 mm²	
	2 x 94	2 x 78	2 x 59	2 x 47	40	40	32	

	GHG 749 04 up to 296 terminals							
Connecting terminals	up to 240 mm²							
Dimensions (L x W x H)	817 x 271 x 136 mm							
Weight	approx. 5.8 kg							
Drillings/cable glands	M12	M16	M20	M25	M32	M40	M50	M63
Max. number down	180	108	78	54	30	21	12	9
Max. number flange plastic	46	25	20	11	8	4	3	2
Max. number 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 mm²	4 mm²	6 mm²	10 mm²	16 mm²	25 mm²	35 mm²	
	2 x 148	2 x 124	2 x 94	2 x 75	63	63	51	

Type 746 03

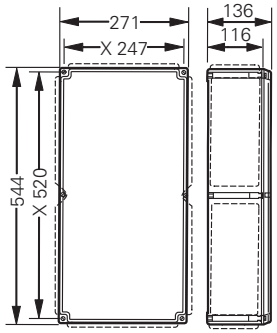
Type 749 04

Ordering details

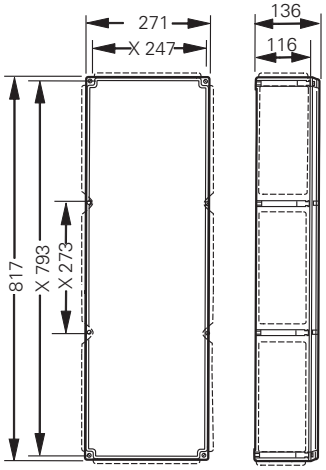
Content	Cable gland	No. of terminals	Order No.
Type 746 03 up to 188 terminals assembled with screw terminals 2 x 4 mm² + PE-rail 4 mm²			
Ex-e	2 x palstic flange down without drilling	1 x Ex-e[1)] 2 x 14 x PE	**GHG 746 0301 R0002**
Type 749 04 up to 296 terminals assembled with screw terminals 2 x 2.5 mm² + PE-rail 4 mm²			
Ex-e	3 x palstic 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 versions available on request

Dimension drawing



Type 746 03



Type 749 04

X = fixing dimensions

Dimensions in mm

Universal Terminal Boxes

Ex-e/Ex-i Technology

Light alloy metal design for Zone 1, 2, 21 and 22

Connecting your field devices

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 mm^2 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.

Corrosion resistant

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.

Features

- **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.
The table "Max. number of terminals" is based on the mechanical conditions of the terminal enclosure such as length of mounting rail and height the terminals. It is based on common terminal types such as Phoenix© or Wago©. The permissible number of terminals in terms of the type examination certificate must be checked in each individual case based on the current load tables in the operating instructions.
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

Type	Terminal cross-section 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	Length	x	Height
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	Height
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

GHG 793 0101 R0003

Technical data

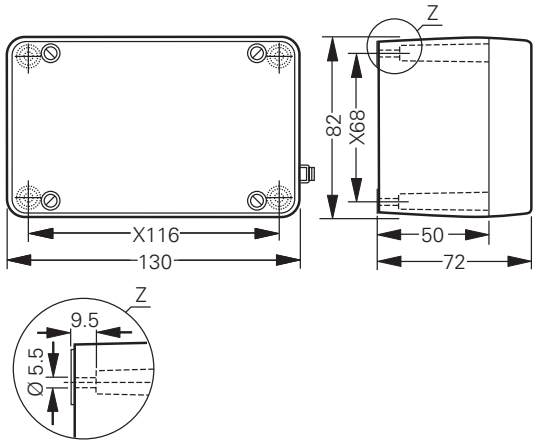
	Type 793 01 up to 11 terminals						
Marking accd. to 2014/34/EU	Ⓔx II 2 G Ex dem ia II, IIC T6 / Ⓔx II 2 D tD A21 IP66 T80 °C						
Permissible ambient temperature	–20 °C to +40 °C –55 °C to +55 °C (option)						
EC-Type Examination Certificate	PTB 00 ATEX 3108						
Rated voltage	up to 690 V						
Rated current	depends on terminal mounting						
Degree of protection accd. to EN 60529	IP66						
Enclosure material	light alloy die-casting (AlSi)						
Enclosure colour	light grey						
Terminal cross section	up to 6 mm²						
Weight	approx. 0.68 kg						
Drillings/cable glands Max. number down	M16 5	M20 2	M25 2	M32 1	M40 –	M50 –	M63 –
Max. number of terminals acc. to certification	2.5 mm² 16	4 mm² 14	6 mm² 10				

Ordering details

Content	Cable gland	No. of terminals	Order No.
Type 793 01 up to 11 terminals with screw terminals 2 x 2.5 mm² + PE-terminals 2 x 4 mm²			
Ex-e	without drilling	1 x Ex-e*/1 x PE	GHG 793 0101 R0003

* according to type examination certificate individual extensible

Dimension drawing



Type 793 01

X = fixing dimensions

Dimensions in mm

GHG 723 2001 R0002

GHG 723 1001 R0002

GHG 723 0001 R0002

Technical data

	Type 723 00 l 723 10 l 723 20 up to 96 terminals
Marking accd. to 2014/34/EU	Ⓔx II 2 G Ex e IIC T4/T5/T6 Gb / Ⓔx II 2 D Ex ctb IIIC T80 °C/T95 °C Db
Permissible ambient temperature	–20 °C to +40 °C –55 °C to +55 °C (option)
EC-Type Examination Certificate	BVS 13 ATEX E013X
IECEx Certificate of Conformity	IECEx BVS 13.0031X
Marking accd. to IECEx	Ex e IIC T4/T5/T6 Gb Ex tb IIIC T80 °C/T95 °C Db IP6X
Rated voltage	up to 690 V
Rated current	depends on terminal mounting
Degree of protection accd. to EN 60529	IP66
Enclosure material	light alloy die-casting (AlSi)
Enclosure colour	light grey

	Type 723 00 up to 24 terminals						
Terminal cross section	max. 35 mm²						
Weight	approx. 1.41 kg						
Drillings/cable glands Max. number down	M16 8	M20 4	M25 3	M32 –	M40 –	M50 –	
Dimensions (L x W x H)	220 x 80 x 120 mm						
Terminal mounting space on the terminal rail	1 x 185 mm						
Max. number of terminals acc. to certification	2.5 mm² 15	4 mm² 17	6 mm² 18	10 mm² 18	16 mm² 14	25 mm² –	35 mm² –

	Type 723 10 up to 82 terminals						
Terminal cross section	max. 50 mm²						
Weight	approx. 3.84 kg						
Drillings/cable glands Max. number down	M16 22	M20 10	M25 7	M32 4	M40 3	M50 2	
Dimensions (L x W x H)	220 x 111 x 230 mm						
Terminal mounting space on the terminal rail	2 x 242 mm						
Max. number of terminals acc. to certification	2.5 mm² 2 x 41	4 mm² 2 x 34	6 mm² 2 x 26	10 mm² 2 x 20	16 mm² 1 x 17	25 mm² 1 x 17	35 mm² 1 x 14

	Type 723 20 up to 96 terminals						
Terminal cross section	max. 95 mm²						
Weight	approx. 4.87 kg						
Drillings/cable glands	M16	M20	M25	M32	M40	M50	
Max. number down	30	18	10	6	5	4	
Dimensions (L x W x H)	400 x 111 x 230 mm						
Terminal mounting space on the terminal rail	3 x 362 mm						
Max. number of terminals acc. to certification	2.5 mm² 2 x 48	4 mm² 2 x 48	6 mm² 2 x 36	10 mm² 2 x 36	16 mm² 1 x 28	25 mm² 1 x 23	35 mm² 1 x 22

GHG 723 0001 R0002

GHG 723 1001 R0002

GHG 723 2001 R0002

Ordering details

Content	Cable gland	No. of terminals	Order No.
Type 723 00 assembled with screw terminals 2 x 2.5 mm² + PE-terminals 4 mm²			
Ex-e	without drilling	1 x Ex-e[1)]/1 x PE	**GHG 723 0001 R0002**
Type 723 10 assembled with screw terminals 2 x 2.5 mm² + PE-terminals 4 mm²			
Ex-e	without drilling	1 x Ex-e[1)]/14 x PE	**GHG 723 1001 R0002**
Type 723 20 assembled with screw terminals 2 x 2.5 mm² + PE-terminals 4 mm²			
Ex-e	without drilling	1 x Ex-e[1)]/14 x PE	**GHG 723 2001 R0002**

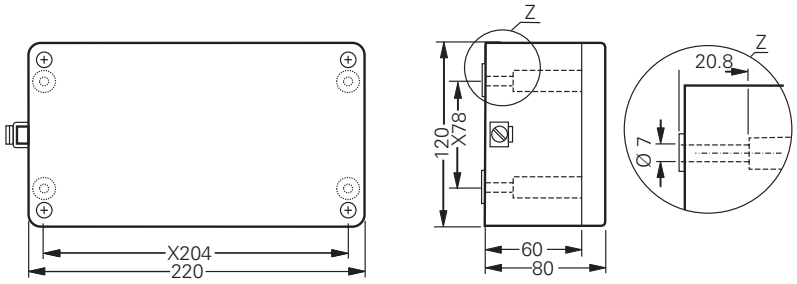
[1)] according to type examination certificate individual extensible

GHG 723 2001 R0002

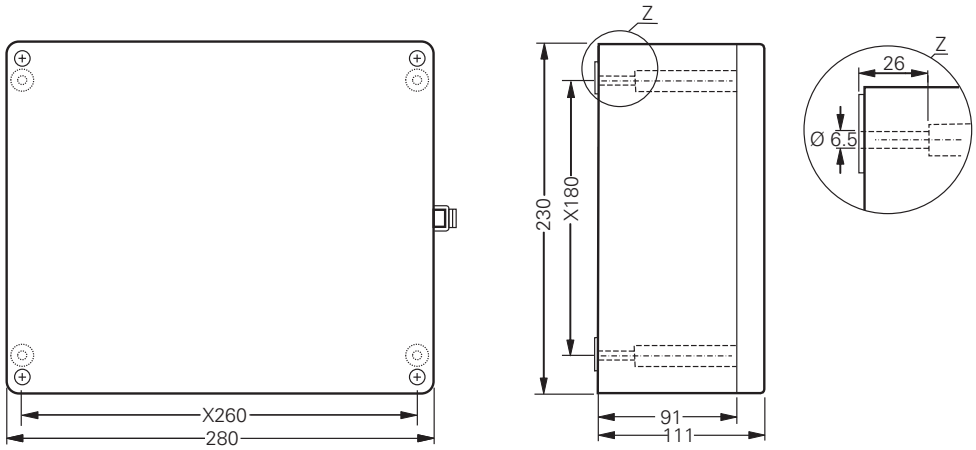
GHG 723 1001 R0002

GHG 723 0001 R0002

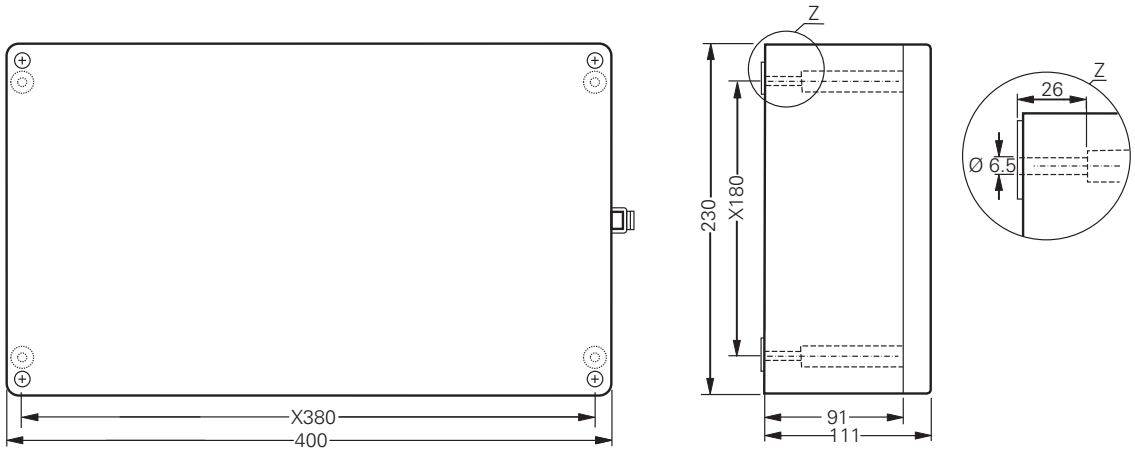
Dimension drawing



Type 723 00



Type 723 10



Type 723 20

X = fixing dimensions

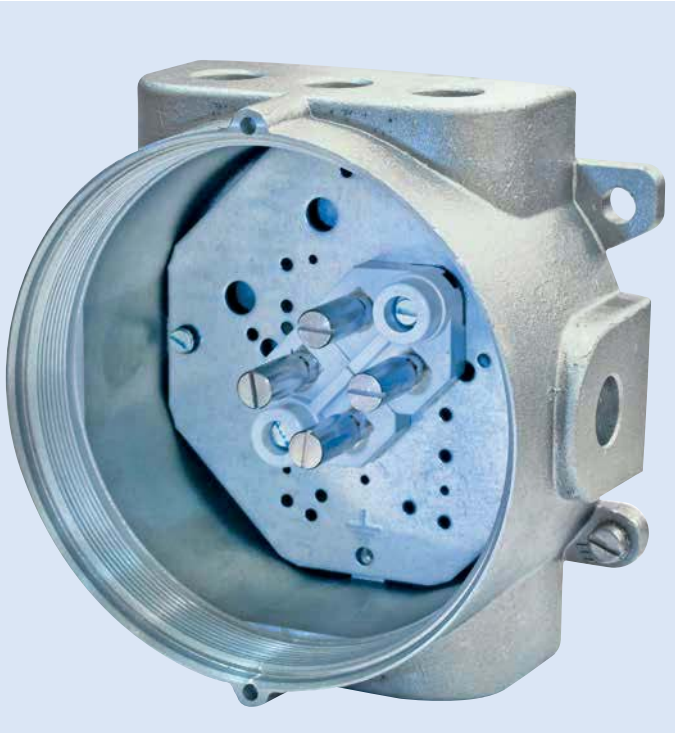
Dimensions in mm

Ex-d Terminal Boxes

Light metal design, explosion-proof for Zone 1, 2, 21 and 22

Connecting your field devices

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.



Features

- **High mechanical, chemical and thermal resistance**
- **High degree of protection IP67**

Mounting plate + terminals C31

Type C31 A

Mounting plate+ terminals C30

Type C30

Technical data

	Type C30 I Type C31
Marking accd. to 2014/34/EU	Ⓔx II 2 G Ex d IIC T6 / Ⓔx II 2 D Ex tD A21 IP67 T85 °C
EC-Type Examination Certificate	KEMA 09 ATEX 0110X
IECEx Certificate of Conformity	IECEx BKI 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
Protection class	I
Degree of protection accd. to EN 60529	IP67
Enclosure material	light alloy
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

Type C30

Mounting plate + terminals C30

Type C31

Mounting plate + terminals C31

Ordering details

Type	Thread entries	Weight	Order No.
Type C30			
C30 T1-M	3 x M20	0.8 kg	**NOR 000 001 151 581**
C30 X1-M	4 x M20	0.8 kg	**NOR 000 001 151 506**
C30 T3-M	3 x M25	0.8 kg	**NOR 000 001 151 599**
C30 X2-M	4 x M25	0.8 kg	**NOR 000 001 151 514**
C30 T1	3 x $^1/_2$"	0.8 kg	**NOR 000 001 151 181**
C30 T2	3 x $^3/_4$"	0.8 kg	**NOR 000 001 151 199**
C30 X1	4 x $^1/_2$"	0.8 kg	**NOR 000 001 151 206**
C30 X2	4 x $^3/_4$"	0.8 kg	**NOR 000 001 151 214**
Type C31			
C31 T1-M	3 x M20	1.30 kg	**NOR 000 111 150 501**
C31 T2-M	3 x M25	1.30 kg	**NOR 000 111 150 502**
C31 X1-M	4 x M20	1.30 kg	**NOR 000 111 150 504**
C31 X2-M	4 x M25	1.30 kg	**NOR 000 111 150 505**
C31 T1	3 x $^1/_2$"	1.30 kg	**NOR 000 111 150 001**
C31 T2	3 x $^3/_4$"	1.30 kg	**NOR 000 111 150 002**
C31 T3	3 x 1"	1.30 kg	**NOR 000 111 150 003**
C31 X1	4 x $^1/_2$"	1.30 kg	**NOR 000 111 150 004**
C31 X2	4 x $^3/_4$"	1.30 kg	**NOR 000 111 150 005**
C31 X3	4 x 1"	1.30 kg	**NOR 000 111 150 006**
C31A T2	3 x $^3/_4$"	1.30 kg	**NOR 000 111 150 013**
C31A X1	4 x $^1/_2$"	1.30 kg	**NOR 000 111 150 011**

Accessories

Type	Version	No. of terminals	Order No.
Build-in components type C30			
BC 30	Mounting plate with pillor terminals 4 x 4 mm^2	4 x Ex-e [2]	**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**

Type	Order No.
Mounting bracket for housing fixing type C30	
SUSC 30	**NOR 000 000 115 311**

Type	Version	No. of terminals	Order No.
Build-in components type C31			
BC31	Mounting plate with pillar terminals	4 x 4 mm^2 [2]	**NOR 000 111 150 009**
P C31	Mounting plate without terminals	–	**NOR 000 000 115 306**
PBPD 31	Terminal rail DIN 46877	–	**NOR 000 000 115 315**

[1] Other threads on request

[2] 4 x 4 mm^2 multi-wire or 2 x 6 mm^2 solid-wire

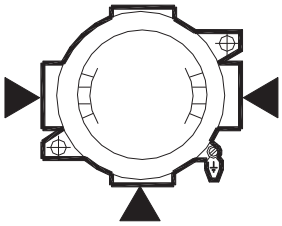
Mounting plate + terminals C31

Type C31A

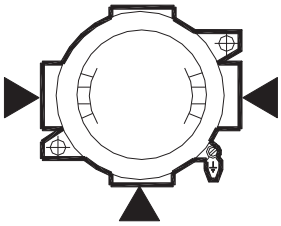
Mounting plate + terminals C30

Type C30

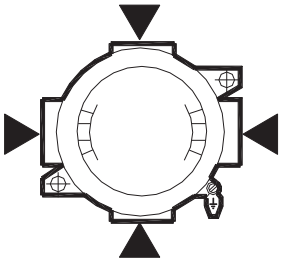
Dimension drawing



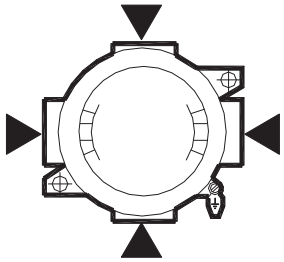
Type C30 T



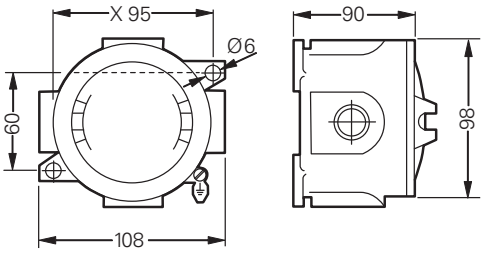
Type C31 T



Type C30 X

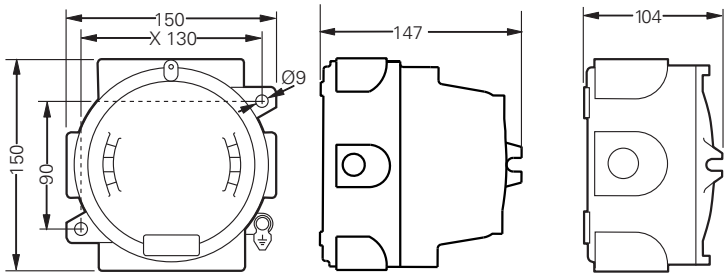


Type C31 X



Typ C30

X = fixing dimensions, ▲ = Thread



Typ C31A

Typ C31

Dimensions in mm

Ex-e/Ex-i Terminal Enclosures

Stainless steel version for Zone 1, 2, 21 and 22

Connecting your field devices

The 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.

Robust design

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 series of terminal enclosures are available in various sizes accommodating up to 7 x 128 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.

Metal flange

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.

Features

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

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 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. The "max. terminal capacity" in the tables is based on the mechanical conditions of the terminal enclosure such as length of mounting rail and height the terminals. It is based on common terminal types such as Phoenix© or Wago©.

The permissible number of terminals in terms of the type examination certificate must be checked in each individual case based on the current load tables in the operating instructions.
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.

N-TB Range

Type	Max. terminal capacity (2.5 mm²)	Max. entry guide (M16) Top-Bottom/ Left/Right
N-TB 1	1 x 21	6/6/6
N-TB 2	2 x 27	20/9/9
N-TB 3	2 x 27	28/18/18
N-TB 4	2 x 36	26/20/26
N-TB 5	2 x 36	34/28/34
N-TB 6	2 x 51	28/28/28
N-TB 7	2 x 67	29/29/29
N-TB 8	2 x 51	35/35/35
N-TB 9	2 x 67	46/46/46
N-TB 10	3 x 71	53/46/53
N-TB 11	4 x 99	53/53/53
N-TB 12	3 x 128	53/82/82
N-TB 13	5 x 124	60/60/60
N-TB 14	6 x 147	82/80/80
N-TB 15	6 x 171	80/106/106

Ex-Cell Range

Size	Max. terminal capacity (2.5 mm²)	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
40/50/20	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

S-TB Range

Type	Max. terminal capacity (2.5 mm²)	Max. entry guide (M16) Top-Bottom/ Left/Right
S-TB 1	1 x 8	7/7/4
S-TB 2	1 x 13	9/9/6
S-TB 3	1 x 21	18/18/14
S-TB 4	2 x 31	32/32/26
S-TB 5	1 x 55	50/20/44
S-TB 6	3 x 31	54/32/48
S-TB 7	3 x 42	100/100/88
S-TB 8	4 x 61	124/124/118
S-TB 9	5 x 79	108/164/152

GHG 74.2 Range

Size	Max. terminal capacity (2.5 mm²)
744 21	40
745 22	82
746 23	188
749 24	296

N-TB Ex-e/Ex-i Terminal Enclosures

Stainless steel version for Zone 1, 2, 21 and 22

Connecting your field devices

The **N-TB** 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.

Electro-polished

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 different sizes and 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 **N-TB** range is the benchmark in heavy-duty gauge enclosures of its class.

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

Degree of protection

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.

There is 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 units are sealed to IP66 by a high integrity Silicon gasket and secured by stainless steel bolts into blind inserts.

Features

- **S316L Stainless Steel (1.4404 to EN 10088)**
  Superior "corrosion resistant" electro chemically polished
- **high integrity „one piece" silocon 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 –40 °C to + 55 °C as option**
- **Certification TR-CU, AEx, cULus and Germanischer Lloyd on request**

Flange plate N-TB

N-TB

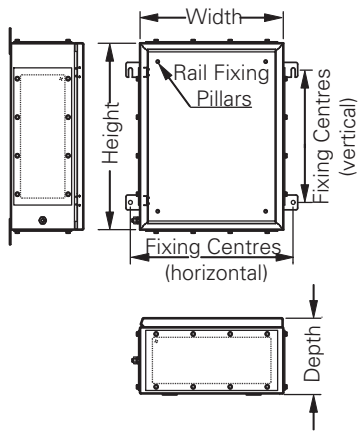
Technical data

	Ex-e terminal enclosures N-TB
Marking accd. to 2014/34/EU	Ⓔx II 2 G Ex e IIC Gb / Ⓔx II 2 D Ex tb IIIC Db
Temperature class	T6 up to +40 °C / T5 up to +55 °C
EC-Type Examination Certificate	BVS 13 ATEX E 014U
Application temperature	–40 °C to +55 °C [1)]
IECEx Certificate of Conformity	IECEx BVS 13.0026U
Marking accd. to IECEx	Ex e II Gb Ex tb IIIC Db
Rated voltage	up to 1100 V[1)]
Rated current	up to 500 A[1)]
Connecting terminals	up to 240 mm² [1)]
Protection class	I
Degree of protection accd. to 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)
Components mounting	4 x stand of pillars Ø 9 mm, 15 mm height, thread M6 x 10, for rail or mounting plate, other heights on request
Enclosure earth	M10 external/internal stainless steel earth stud assembly M6 internal stud on lid & painted gland plates
Gasket material	Silicone gasket

[1)] depending on type of terminal and Ex-components used

Additional Approvals:
cULUs Type 3S, 4, 4 x approval suitable for
Class I, Div 2 applications, Class I Zone 1, AExe II T6 (limited range available),
TR-CU, Germanischer Lloyd

Dimension drawing



Dimensions in mm

N-TB

Ordering details N-TB up to 2 x 51 terminals

N-TB Type	Dimensions[2] H x W x D in mm	Fixing Centres[2] $B_{vertikal}$ x $B_{horizontal}$	Weight in kg (empty enclosure)	Terminal mounting rail: Rail fixing vert.	Rail fixing horiz.	Rail length vert.	Rail length horiz.	Terminal content: Row orientation vertical (thickness in mm) 2,5 (5)	4 (6)	6 (8)	10 (10)
Enclosure dimensions and terminal content											
N-TB 1	229x152x130	152x208[3]	3.25	129	52	149	72	1x21	1x17	1x13	1x10
N-TB 2	260x260x160	170x316	5.50	160	160	180	180	2x27	2x23	1x17	1x13
N-TB 3	260x260x205	170x316	5.50	160	160	180	180	2x27	2x23	1x17	1x13
N-TB 4	306x306x160	203x361[3]	7.00	206	260	226	226	2x36	2x30	2x23	2x18
N-TB 5	306x306x205	203x361[3]	7.00	206	206	226	226	2x36	2x30	2x23	2x18
N-TB 6	380x260x205	250x316	7.00	280	180	300	160	2x51	2x43	1x32	1x25
N-TB 7	458x382x160	305x437[3]	9.75	358	282	378	302	2x67	2x56	2x42	2x33

N-TB Größe	Available glanding area (mit Flanschplatten bestückt) in mm: Top & bottom	left	right	Max. entry guide (metric) Top & bottom / left / right: M16	M20	M25	M32	M40	M50	M63	Order No.[4]
Gland entry detail											
N-TB 1	58x108	58x108	58x108	6/6/6	3/3/3	2/2/2	1/1/1	–	–	–	**NXTS12215130**
N-TB 2	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**
N-TB 3	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**
N-TB 4	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**
N-TB 5	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**
N-TB 6	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**
N-TB 7	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**

Options

with 1 gland plate	NXT **S1** XXYYZZ **1**	with 2 gland plate	NXT **S1** XXYYZZ **2**
with 3 gland plate	NXT **S1** XXYYZZ **3**	with 4 gland plate	NXT **S1** XXYYZZ **4**
		Permanent Padlock HASP Facility (Factory Fitted ONLY)	NXT NN XXYYZZ0-**HASP**

Type	Order No.
Example	
N-TB 4 with 3 gland plates, painted and padlock HASP facility	**NXTS13030163-HASP**

Note: 1. The information provided is based on the physical constraints of the enclosure. Please refer to the certificate for hazardous area applications.
2. Dimension drawing see page 2.2.41
3. 123[3] Subtract 30 mm when no side gland plates
4. Refer to „OPTIONS“ for ordering key

N-TB

Ordering details N-TB up to 6 x 171 terminals

N-TB Size	Dimensions[2] H x W x D in mm	Fixing Centres[2] $B_{vertikal}$ x $B_{horizontal}$	Weight in kg (empty enclosure)	Terminal rail				Terminal content			
				Rail fixing		Rail length		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											
N-TB 8	380x380x230	250x435	8.10	280	280	300	300	2x 51	2x 43	2x32	2x25
N-TB 9	458x382x205	305x437[3]	9.75	358	282	378	302	2x 67	2x 56	2x42	2x33
N-TB 10	480x480x205	327x535[3]	10.40	380	380	400	400	3x 71	3x 59	3x44	3x35
N-TB 11	620x450x205	450x506	17.00	520	350	540	370	4x 99	3x 83	3x62	3x49
N-TB 12	762x508x205	508x564[3]	23.50	662	408	682	428	3x128	3x106	3x80	3x64
N-TB 13	740x550x205	540x606	30.40	640	450	660	470	5x124	4x103	4x77	4x61
N-TB 14	860x640x205	570x696	29.00	760	540	780	560	6x147	5x123	5x 92	4x73
N-TB 15	980x740x205	700x796	38.00	880	640	900	660	6x171	6x143	5x107	5x85

N-TB	Available glanding area			Max. entry guide (metric)							Order No.[4]
	Top & bottom	left	right	Top & bottom / left / right							
Type	(with gland plates fitted) in mm			M16	M20	M25	M32	M40	M50	M63	
Gland entry detail											
N-TB 8	324x150	335x150	335x150	35/35/35	23/23/23	15/15/15	9/9/9/	7/7/7	5/5/5/	2/2/2	**NXTS13838230**
N-TB 9	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**
N-TB 10	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**
N-TB 11	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**
N-TB 12	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**
N-TB 13	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**
N-TB 14	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**
N-TB 15	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** XXYYZZ **1**	with 2 gland plate	NXT **S1** XXYYZZ **2**
with 3 gland plate	NXT **S1** XXYYZZ **3**	with 4 gland plate	NXT **S1** XXYYZZ **4**
		Permanent Padlock HASP Facility (Factory Fitted ONLY)	NXT NN XXYYZZ0-**HASP**

Type	Order No.
Example	
N-TB 11 with 3 gland plate, 316L SS and Padlock HASP Facility	**NXTS162445203-HASP**

Note: 1. The information provided is based on the physical constraints of the enclosure. Please refer to the certificate for hazardous area applications.
2. Dimension drawing see page 2.2.41
3. 123[3] Subtract 30 mm when no side gland plates
4. Refer to „OPTIONS“ for ordering key

Ex-Cell Ex-e/Ex-i Terminal Enclosures

Stainless steel version for Zone 1, 2, 21 and 22

Connecting your field devices

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) along with an impact resistance of a minimum of 7 Nm, making them ideal for wash-down and heavy duty applications.

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

Rapid environmental protection

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.

Gland plates

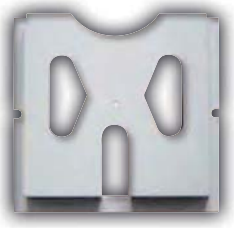
There is an option for up to 3 gland plates (3 mm thick) on each side with possible combinations of 0, 1, 3 gland plates available. All units are sealed to IP66 by a high integrity chloroprene gasket and secured by rapid fixing "Hytork" fixing bolts.

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

Features

- **Stainless steel 316 L options and 304**
- **Safety standard IP66**
- **Hinges and central locking device for easy access**
- **Extended ambient temperatures up to +60 °C on request**
- **External and internal earthing bolts**

ID TAG label & bracket



Door document holder opti.

Security padlock Hasp opti.

Ex-Cell

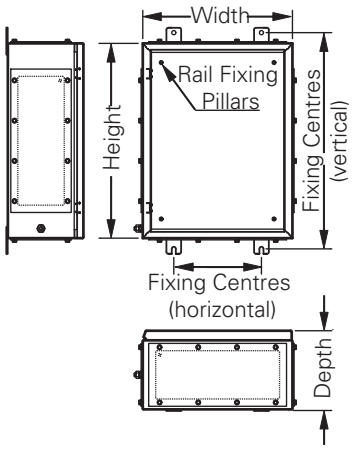
Technical data

	Type Ex-Cell
Marking accd. to 2014/34/EU	⟨Ex⟩ II 2 G Ex e II / ⟨Ex⟩ II 2 D Ex tD A21 IP66
Temperature class	T6 up to +40 °C / T5 up to +55 °C
EC-Type Examination Certificate	PTB 02 ATEX 1021 U
Application temperature	–20 °C to +40 °C –55 °C to +55 °C (option: closed cell expanded Silicone gasket)
Rated voltage	up to 750 V [1)]
Rated current	up to 500 A [1)]
Connecting terminals	up to 240 mm^2 [1)]
Protection class	I
Degree of protection accd. to 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)
Components mounting	4 x stand of pillars Ø 9 mm, 25 mm height, thread 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 expended Silicone gasket (option)

[1)] depending on type of terminal and Ex-components used

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

Dimension drawing



Dimensions in mm

1/4 fastening

Bolt fastening

Ordering details Ex-Cell up to 2 x 56 terminals

316L SS-90° Fastening Size	Dimensions[2] H x W x D in mm	Fixing Centres[2] $B_{vertical}$ x $B_{horizontal}$	Weight in kg (empty enclosure)	Terminal rail Rail fixing vert.	Rail fixing horiz.	Rail length vert.	Rail length horiz.	Terminal content Row orientation vertical 2,5 mm²	4 mm²	6 mm²	10 mm²	16 mm²
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-90° Fastening Size	Available glanding area Top & bottom (with gland plates fitted) in mm	left	right	Max. entry guide (metric) Top & bottom / left / right M16	M20	M25	M32	M40	M50	M63	Order No.[3]
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** XXYYZZ **1**	**with 3 gland plate**	XLH **S1** XXYYZZ **3**
Ex-Cell 316L SS - bolt fastening	XLH **S1** XXYYZZ0-**B**	**Ex-Cell 304 SS - 1/4 fastening**	XLH **S2** XXYYZZ **0**
Ex-Cell 304 SS - bolt fastening	XLH **S2** XXYYZZ0-**B**	**Ex-Cell painted - 1/4 fastening**	XLH **PS** XXYYZZ **0**
Ex-Cell painted - bolt fastening	XLH **PS** XXYYZZ0-**B**	**Permanent Padlock HASP Facility (Factory fitted ONLY)**	XLH NN XXYYZZ0-**HASP**

Type	Order No.
Example	
30/20/15 with 3 gland plate, painted with bolt fastening and Permanent Padlock HASP Facility	**XLHPS 3020153-B-HASP**

Note: 1. The information provided is based on the physical constraints of the enclosure. Please refer to the certificate for hazardous area applications.
2. Dimension drawing see page 2.2.45
3. Refer to „OPTIONS“ for ordering key

Ex-Cell

Ordering details Ex-Cell up to 3 x 77 terminals

316L SS-90° Fastening Size	Dimensions[2] H x B x T in mm	Rail fixing centres[2] $B_{vertical}$ x $B_{horizontal}$	Weight in kg (empty enclosure)	Terminal rail Rail fixing vert.	Rail fixing horiz.	Rail length vert.	Rail length horiz.	Terminal content Row orientation vertical 2,5 mm²	4 mm²	6 mm²	10 mm²	16 mm²
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-90° Fastening Size	Available glanding area Top & bottom (with gland plates fitted) in mm	left	right	Max. entry guide (metric) Top & bottom / left / right M16	M20	M25	M32	M40	M50	M63	Order No.[3]
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** XXYYZZ **1**	**with 3 gland plate**	XLH **S1** XXYYZZ **3**
Ex-Cell 316L SS - bolt fastening	XLH **S1** XXYYZZ0-**B**	**Ex-Cell 304 SS - 1/4 fastening**	XLH **S2** XXYYZZ **0**
Ex-Cell 304 SS - bolt fastening	XLH **S2** XXYYZZ0-**B**	**Ex-Cell painted - 1/4 fastening**	XLH **PS** XXYYZZ **0**
Ex-Cell painted - bolt fastening	XLH **PS** XXYYZZ0-**B**	**Permanent padlock HASP Facility (Factory fitted ONLY)**	XLH NN XXYYZZ0-**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**

Note: 1. The information provided is based on the physical constraints of the enclosure. Please refer to the certificate for hazardous area applications.
2. Dimension drawing see page 2.2.45
3. Refer to „OPTIONS" for ordering key

Ex-Cell

Ordering details Ex-Cell up to 4 x 97 terminals

316L SS-90° Fastening Size	Dimensions[2] H x W x D in mm	Rail fixing cenrtres[2] $B_{vertical}$ x $B_{horizontal}$	Weight in kg (empt enclosure)	Terminal rail				Terminal content				
				Rail fixing centres		Rail length		Row orientation vertical				
				vert.	horiz.	vert.	horiz.	2.5 mm²	4 mm²	6 mm²	10 mm²	16 mm²
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-90° Fastening	Available glanding area			Max. entry guide (metric)							Order No.[3]
	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											
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** XXYYZZ **1**	**with 3 gland plate**	XLH **S1** XXYYZZ **3**
Ex-Cell 316L SS - bolt fastening	XLH **S1** XXYYZZ0-**B**	**Ex-Cell 304 SS - 1/4 fastening**	XLH **S2** XXYYZZ **0**
Ex-Cell 304 SS - bolt fastening	XLH **S2** XXYYZZ0-**B**	**Ex-Cell painted - 1/4 fastening**	XLH **PS** XXYYZZ **0**
Ex-Cell painted - bolt fastening	XLH **PS** XXYYZZ0-**B**	**Permanent padlock HASP Facility (Factory Fitted ONLY)**	XLH NN XXYYZZ0-**HASP**

Type	Order No.
Example	
60/50/20 with 3 gland plate, painted 1/4 turn lock and Permanent Padlock HASP Facility	**XLHPS6050203-HASP**

Note: 1. The information provided is based on the physical constraints of the enclosure. Please refer to the certificate for hazardous area applications.
2. Dimension drawing see page 2.2.45
3. Refer to „OPTIONS“ for ordering key

Ex-Cell

Ordering details Ex-Cell up to 7 x 128 terminals

316L SS-90° Fastening Size	Dimensions[2] H x W x D in mm	Rail fixing centres[2] $B_{vertical}$ x $B_{horizontal}$	Weight in kg (empty enclosure)	Terminal rail: Rail fixing centres vert.	Rail fixing centres horiz.	Rail length vert.	Rail length horiz.	Terminal content: Row orientation vertical 2.5 mm²	4 mm²	6 mm²	10 mm²	16 mm²
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-90° Fastening Size	Available glanding area Top & bottom (with gland plates fitted) in mm	left	right	Max. entry guide (metric) Top & bottom / left / right M16	M20	M25	M32	M40	M50	M63	Order No.[3]
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** XXYYZZ **1**	**with 3 gland plate**	XLH **S1** XXYYZZ **3**
Ex-Cell 316L SS - bolt fastening	XLH **S1** XXYYZZ0-**B**	**Ex-Cell 304 SS - 1/4 fastening**	XLH **S2** XXYYZZ **0**
Ex-Cell 304 SS - bolt fastening	XLH **S2** XXYYZZ0-**B**	**Ex-Cell painted - 1/4 fastening**	XLH **PS** XXYYZZ **0**
Ex-Cell Painted - bolt fastening	XLH **PS** XXYYZZ0-**B**	**Permanent padlock HASP Facility (Factory Fitted ONLY)**	XLH NN XXYYZZ0-**HASP**

Type	Order No.
Example	
60/76/20 with 3 gland plate, 316 SS with bolt fastening and Permanent Padlock HASP Facility	**XLHS16076203-B-HASP**

Note: 1. The information provided is based on the physical constraints of the enclosure. Please refer to the certificate for hazardous area applications.
2. Dimension drawing see page 2.2.45
3. Refer to „OPTIONS" for ordering key

S-TB Ex-e Terminal Enclosures

Stainless steel version for Zone 1, 2, 21 and 22

Designed for heavy duty

The **ST-B** 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 **S-TB** range is the benchmark in heavy-duty gauge enclosures of its class.

ST-B has unique wrap-round lid cover design that wraps around the body of the enclosures eliminate ingress of both liquids and dusts 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.

Inress protection

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 **ST-B** 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.

Features

- **316L Stainless Steel (1.4404 to EN 10088) Superior "corrosion resistant" electro chemically polished.**
- **Sheet Steel - Polyester powder coated to RAL 7032**
- **Foamed silicone gasket**
- **Safety standard IP66**
- **Extended ambient temperatures –40 °C to +55 °C as option**
- **Certification TR-CU, AEx, cULus and Germanischer Lloyd on request**

S-TB

S-TB

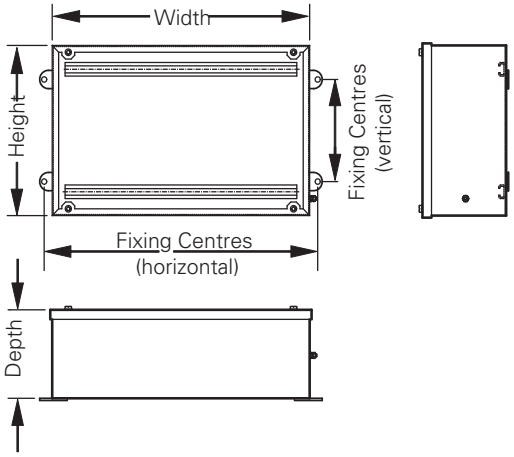
Technical data

	Type S-TB terminal boxes
Marking accd. to 2014/34/EU	Ⓔx II 2 G Ex e IIC Gb Ⓔx II 2 D Ex tb IIIC Db
Temperature class	T6 up to +40 °C / T5 up to +55 °C
EC-Type Examination Certificate	BVS 13 ATEX E 015 U
Application temperature	–30 °C to +40 °C –40 °C to +55 °C (option)
IECEx Certificate of Conformity	IECEx BVS 13.0025U
Marking accd. to IECEx	Ex e IIC Gb Ex tb IIIC Db
Rated voltage	up to 690 V*
Rated current	up to 500 A*
Connecting terminals	up to 240 mm^2*
Protection class	I
Degree of protection accd. to 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	S-TB 1 - S-TB 4 - 2 welded lugs with Ø 8 mm holes S-TB 5 - S-TB 6 - 4 welded lugs with Ø 8 mm holes S-TB 7 - S-TB 9 - 4 welded lugs with Ø 11 mm holes
Enclosure material	Stainless steel 316 L or 304
Material thickness	1.5 mm
Components mounting	S-TB 1 - S-TB 6 - internally welded TAS 20 rail for terminals mounting S-TB 7 - S-TB 9 - 4 x stand of pillars Ø 9 mm, 25 mm height, thread M6 x 10, for rail or mounting plate
Enclosure earth	S-TB 1 - S-TB 6 - M6 external/internal earth stud assembly S-TB 7 - S-TB 9 - M10 external/internal earth stud assembly
Gasket material	Silikon-gasket

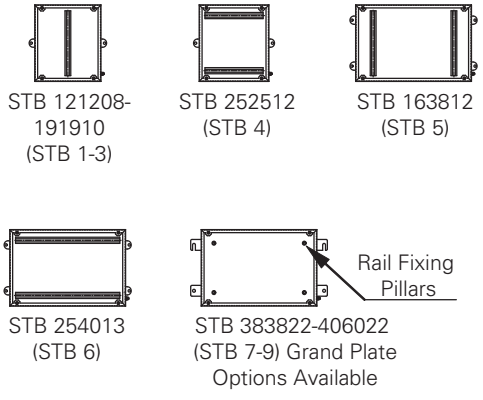
* depending on type of terminal and Ex-components used

Additional certifications:
TR-CU and cULUs types 3S, 4, 4 x on request.

Dimension drawing



Fixing Lug and Rail / Pillar configuration
(not to scale)



Dimensions in mm

S-TB

S-TB

Ordering details S-TB up to 3 x 51 terminals

S-TB Size	Dimensions[2] H x W x D in mm	Fixing centres $B_{vertical}$[2] mm x $B_{horizontal}$ mm	Weight in kg (empty enclosure)	Terminal rail: Rail fixing centres vert.	Rail fixing centres horiz.	Rail length vert.	Rail length horiz.	Terminal content: Row orientation vertical 2.5 (6)	4 (6.5)	6 (8)	10 (10)
Enclosure dimensions and terminal content											
S-TB 1	120x120x 80	145	1.4	62		82		1x 8	1x 6	1x 5	1x 4
S-TB 2	150x150x 90	175	1.9	90		110		1x13	1x11	1x 8	1x 7
S-TB 3	190x190x100	215	3.0	130		150		1x21	1x18	1x13	1x10
S-TB 4	250x250x120	275	3.7	180		200		2x31	2x26	2x19	2x15
S-TB 5	160x380x120	80x405	3.7	300		320		1x55	1x46	1x34	1x28

S-TB Size	Available glanding area (with gland plates fitted) in mm: Top & bottom	left	right	Max. entry guide (metric): Top & bottom / left / right M16	M20	M25	M32	M40	M50	M63	Order No.[3]
Gland entry detail											
S-TB 1	114x 63	114x 63	70x 63	7/7/4	3/3/1	2/2/1	2/2/1	–	–	–	**STBS1121208**
S-TB 2	144x 73	144x 73	100x 73	9/9/6	6/6/4	3/3/2	2/2/1	2/2/1	–	–	**STBS1151509**
S-TB 3	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**
S-TB 4	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**
S-TB 5	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**

Options

S-TB with gland 1 plate[3]	STB **S** 1XXYYZZ **1**	**S-TB with additional UL CERT**	STB **S** 1XXYYZZ **UL**
S-TB with gland 3 plate[3]	STB **S** 1XXYYZZ **3**		

Type	Order No.
Example	
S-TB 2 with 3 gland plate and UL-certification	**STBS1151509-UL**

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

Note: 1. Dimension drawing see page 2.2.51

2. Size S-TB 1 - S-TB 4 has only horizontal fixing lugs (2)
3. Only this types includes UL-Certification and can be ordered with 1 or 3 gland plates
4. Refer to „OPTIONS“ for ordering key

S-TB

Ordering details S-TB up to 5 x 79 terminals

S-TB Size	Dimensions[2] H x W x D in mm	Fixing centres $B_{vertical}$ mm x $B_{horizontal}$ mm	Weight in kg (empty enclosure)	Terminal rail: Rail fixing centres vert.	Rail fixing centres horiz.	Rail length vert.	Rail length horiz.	Terminal content: Row orientation vertical 2.5 (6)	4 (6.5)	6 (8)	10 (10)
Enclosure dimensions and terminal content											
S-TB 6	250x400x130	150x425	5.4	180		200		3x31	3x26	3x19	3x15
S-TB 7[2]	380x380x220	250x435	8.5	280		300		3x42	3x39	3x32	3x25
S-TB 8	480x480x200	340x535	10.5	380		400		4x61	4x56	4x46	4x36
S-TB 9[2]	600x400x220	464x456	13.0	500		520		5x79	5x73	5x59	5x47

S-TB Type	Available glanding area (with gland plates fitted) in mm: Top & bottom	left	right	Max. entry guide (metric) Top & bottom / left / right: M16	M20	M25	M32	M40	M50	M63	Order No.[3]
Gland entry detail											
S-TB 6	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**
S-TB 7[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**
S-TB 8	474x183	474x183	474x183	124/124/118	78/78/74	54/54/50	30/30/28	20/20/18	11/11/9	10/10/8	**STBS14848200**
S-TB 9[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

S-TB with gland 1 plate[2]	STB **S** 1XXYYZZ **1**	**S-TB with additonal UL CERT**	STB **S** 1XXYYZZ **UL**
S-TB with gland 3 plate[2]	STB **S** 1XXYYZZ **3**		

Type	Order No.
Example	
S-TB 7 316L SS with 3 gland plate 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.

Note: 1. Dimension drawing see page 2.2.51
2. Only this types includes UL-Certification and can be ordered with 1 or 3 gland plates
3. Refer to „OPTIONS“ for ordering key

Type 744 21

Type 745 22

Technical data

	Type 744 21/745 22/746 23/749 24 up to 296 terminals
Marking accd. to 2014/34/EU	Ⓔx II 2 G Ex e IIIC T4/T5/T6 Gb / Ⓔx II 2 D Ex e ib [ia/ib] IIC T4/T5/T6 Gb
EC-Type Examination Certificate	BVS ATEX E 118X
IECEx Certificate of Conformity	IECEx BVS 12.0071X
Marking accd. to IECEx	Ex e ib [ia/ib] IIC T4 ... T6 Gb Ex tb IIIC T80 °C/T95 °C Db IP6X
Permissible ambient temperature	–20 °C to +40 °C
Rated voltage	up to 690 V
Rated current	depends on terminal mounting
Degree of protection accd. to EN 60529	IP66
Enclosure material	Stainless steel AISI 316 L (1.4404)

	Type 744 21 up to 40 terminals						
Terminal cross section	max. 16 mm²						
Weight	approx. 3.5 kg						
Max. number of 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	2.5 mm²	4 mm²	6 mm²	10 mm²	16 mm²	25 mm²	35 mm²
acc. to certification	1 x 40	1 x 33	1 x 25	1 x 20	1 x 17	1 x 17	–

	Type 745 22 up to 82 terminals						
Terminal cross section	max. 70 mm²						
Weight	approx. 7.5 kg						
Max. number of 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	2.5 mm²	4 mm²	6 mm²	10 mm²	16 mm²	25 mm²	35 mm²
acc. to certification	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 terminals						
Terminal cross section	max. 240 mm²						
Weight	approx. 11.5 kg						
Max. number of 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	2.5 mm²	4 mm²	6 mm²	10 mm²	16 mm²	25 mm²	35 mm²
acc. to certification	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 terminals						
Terminal cross section	max. 240 mm²						
Weight	approx. 16.5 kg						
Max. number of 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	2.5 mm²	4 mm²	6 mm²	10 mm²	16 mm²	25 mm²	35 mm²
acc. to certification	2 x 148	2 x 124	1 x 94	2 x 75	1 x 63	1 x 63	1 x 51

Type 749 24

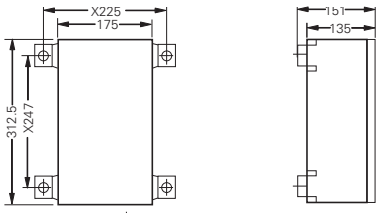
Type 746 23

Ordering details

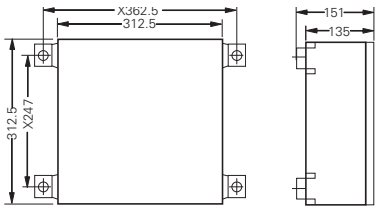
Type	Cable gland	No. of terminals	Order No.
Terminal boxes 744 21 assembled with screw terminals 2 x 2.5 mm² + PE-rail 4 mm²			
Ex-e	1 x stainless steel down without drilling	1 x Ex-e* 7 x PE	**GHG 744 2101 R0001**
Terminal boxes 745 22 assembled with screw terminals 2 x 2.5 mm² + PE-rail 4 mm²			
Ex-e	1 x stainless steel down without drilling	1 x Ex-e* 14 x PE	**GHG 745 2201 R0001**
Terminal boxes 745 22 assembled with screw terminals 2 x 2.5 mm² + PE-rail 4 mm²			
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 assembled with screw terminals 2 x 2.5 mm² + PE-rail 4 mm²			
Ex-e	3 x stainless steel down without drilling	1 x Ex-e* 3 x 14 x PE	**GHG 749 2401 R0001**

* according to type examination certificate individual extensible
Other applications available on request.

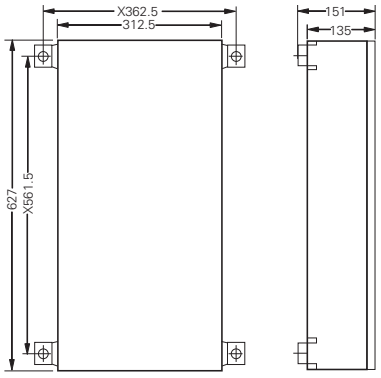
Dimension drawing



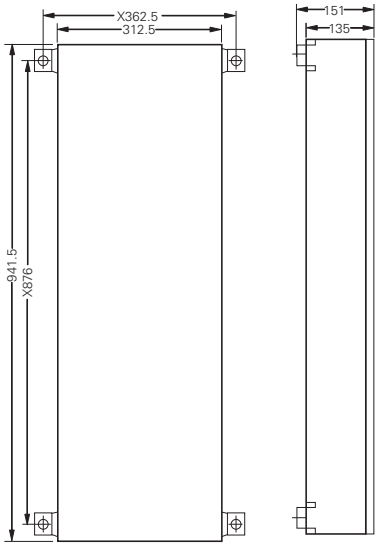
Type 744 21



Type 745 22



Type 746 23



Type 749 24

X = fixing dimensions

Dimensions in mm

Ex-Intermediate Motor Terminal Boxes

up to 240 mm² Plastic version for Zone 1 and Zone 21

Connecting drives

The CEAG connection and junction boxes are 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 60079. 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 outlet.

Features

- **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 accd. to 2014/34/EU	Ⓔx II 2 G Ex e IIC T5/T6 Gb / Ⓔx II 2 D Ex tb IIIC T80°C Db
EC-Type Examination Certificate	BVS 16 ATEX E 031
IECEx Certificate of Conformity	IECEx BVS 16.0024
Marking accd. to IECEx	Ex e IIC T5/T6 Gb Ex tb IIIC T80°C Db
Permissible ambient temperature	–20 °C to +40 °C / -55 C to +55 °C (option)
Rated voltage	up to 690 V
Rated current	depends on terminal mounting
Degree of protection accd. to EN 60529	IP66
Enclosure material	Polyamide
Terminal cross section	up to 6 mm²
Weight	approx. 0.7 kg

Ordering details

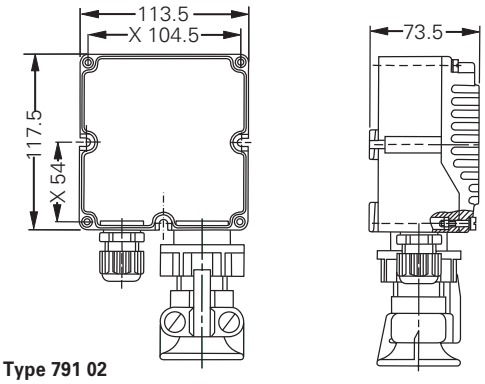
Type	Cable gland	No. of terminals	Order No.
Type 791 02 assembled with screw terminals 2 x 4 mm² + 1 x PE-terminals 2 x 4 mm²			
Ex-e	1 x M25 cable gland 1 x M32 trumpet-shaped gland Ø 15-20 mm	4 x Ex-e 1 x PE	**GHG 791 0201 R0016**

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

Accessories

Type	Application	Fixing method	Order No.
Mounting plate for intermediate motor terminal box 791 02			
Size 2	Wall mounting	snap on	**GHG 610 1953 R0104**
Size 2	Trellis mounting	snap on	**GHG 610 1953 R0106**
Size 2	Pipe clamp	snap on	**GHG 610 1953 R0105**
Protective canopy size 2	for mounting plate size 2		**GHG 610 1955 R0102**

Dimension drawing



Type 791 02

X = fixing dimensions

Dimensions in mm

Type 721 00 10 mm²

Type 721 00 16 mm²

Technical data

	Type 721 00
Marking accd. to 2014/34/EU	Ⓔx II 2 G Ex e IIC T4/T5/T6 Gb / Ⓔx II 2 D Ex tb IIIC T80 °C/T95 °C IP6X
EC-Type Examination Certificate	BVS 13 ATEX 013X
IECEx Certificate of Conformity	IECEx BVS 13.0031X
Marking accd. to IECEx	Ex e IIC T4/T5/T6 Ex tb IIIC T80 °C/T95 °C Db IP6X
Permissible ambient temperature	–20 °C to +40 °C
Rated voltage	up to 690 V
Rated current	depends on terminal mounting
Degree of protection accd. to EN 60529	IP66
Terminal cross section	max. 10 mm² / max. 16 mm²
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 assembled with screw terminals 2 x 10 mm² + 1 x PE-terminals 2 x 10 mm²			
Ex-e	1 x M40 cable gland 1 x M40 trumpet-shaped gland Ø 19-27 mm	4 x Ex-e 1 x PE	**GHG 721 0001 R0013**

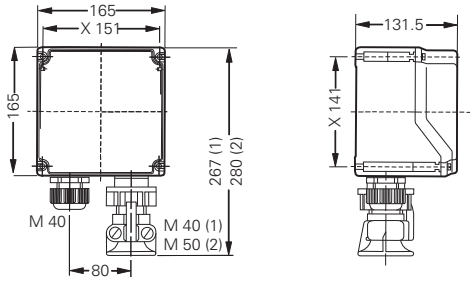
Type	Cable gland	No. of terminals	Order No.
Type 721 00 assembled with screw terminals 2 x 16 mm² + 1 x PE-terminals 2 x 16 mm²			
Ex-e	1 x M50 Ø 21-35 mm 1 x M50 trumpet-shaped gland Ø 26-34 mm	4 x Ex-e 1 x PE	**GHG 721 0001 R0014**

Other applications available on request.

Accessories

Type	Application	Fixing method	Order No.
Mounting plate for intermediate motor terminal box 721 00			
Size 2A	Wall mounting	snap on	**GHG 610 1953 R0107**
Size 2A	Trellis mounting	snap on	**GHG 610 1953 R0109**
Size 2A	Pipe clamp	snap on	**GHG 610 1953 R0108**
Protective canopy size 2A	for mounting plate size 2A		**GHG 610 1955 R0103**

Dimension drawing



Type 721 00

Dimensions in mm

Type 745 02

Technical data

	Type 745 02
Marking accd. to 2014/34/EU	Ⓔx II 2 G Ex e IIC T4/T5/T6 Gb / Ⓔx II 2 D Ex tb IIIC T80 °C/T95 °C Db IP6X
EC-Type Examination Certificate	BVS 12 ATEX E 118X
IECEx Certificate of Conformity	IECEx BVS 12.0071X
Marking accd. to IECEx	Ex e IIC T4/T5/T6 Gb Ex tD tb III T80 °C/T95 °C Db IP6X
Permissible ambient temperature	–20 °C to +40 °C
Rated voltage	up to 690 V
Rated current	depends on terminal mounting
Degree of protection accd. to EN 60529	IP66
Enclosure material	glass-fibre reinforced polyester
Terminal cross section	up to 35 mm² or max. 70 mm²
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 assembled with screw terminals 2 x 35 mm² + 1 x PE-terminals 2 x 35 mm²			
Ex-e	1 x M50 Ø 21-35 mm 1 x M63 trumpet-shaped gland Ø 35-46 mm	4 x Ex-e 1 x PE	**GHG 745 0201 R0002**

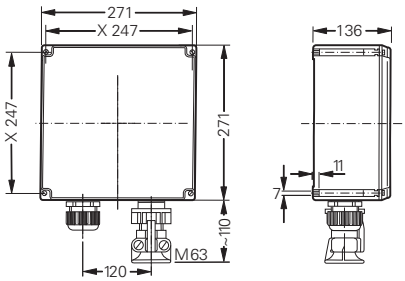
Type	Cable gland	No. of terminals	Order No.
Type 745 02 assembled with screw terminals 2 x 50/70 mm² + 1 x PE-terminals 2 x 50/70 mm²			
Ex-e	1 x M50 Ø 21-35 mm 1 x M63 trumpet-shaped gland Ø 35-46 mm	4 x Ex-e 1 x PE	**GHG 745 0201 R0003**

Other applications available on request.

Accessories

Type	Application	Fixing method	Order No.
Mounting plate for intermediate motor terminal box 745 02			
Size 3	Pipe clamp	screwless 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

X = fixing dimensions

Dimensions in mm

GHG 746 0301 R0001

GHG 746 0301 R0020

Technical data

	Type 746 03
Marking accd. to 2014/34/EU	Ⓔx II 2 G Ex e IIC T4/T5/T6 Gb / Ⓔx II 2 D Ex tb IIIC T80 °C/T95 °C Db IP6X
EC-Type Examination Certificate	BVS 12 ATEX E 118X
IECEx Certificate of Conformity	IECEx BVS 12.0071X
Marking accd. to IECEx	Ex e IIC T4/T5/T6 Gb Ex tD tb III T80 °C/T95 °C Db IP6X
Permissible ambient temperature	–20 °C to +40 °C
Rated voltage	up to 690 V
Rated current	depends on terminal mounting
Degree of protection accd. to EN 60529	IP54
Cable gland	via double cable pothead
Enclosure material	glass-fibre reinforced polyester
Terminal cross section	up to 180 mm² or max. 240 mm²
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 mm² + PE-bold clamp 2 x 185 mm²			
Ex-e	Double cable pothead 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 mm² + PE-bold clamp 240 mm²			
Ex-e	Double cable pothead 2 x entry sleeve 46-72 mm	6 x Ex-e 2 x PE	**GHG 746 0301 R0008**

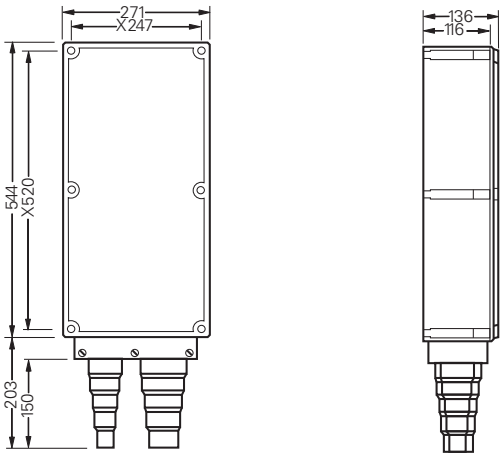
Type	Cable gland	No. of terminals	Order No.
Type 746 03 assembled with bold clamp 240 mm² + PE-bold clamp 240 mm²			
Ex-e	Double cable pothead 3 x entry sleeve 46-72 mm	12 x Ex-e 4 x PE	**GHG 746 0301 R0020**

Other applications available on request.

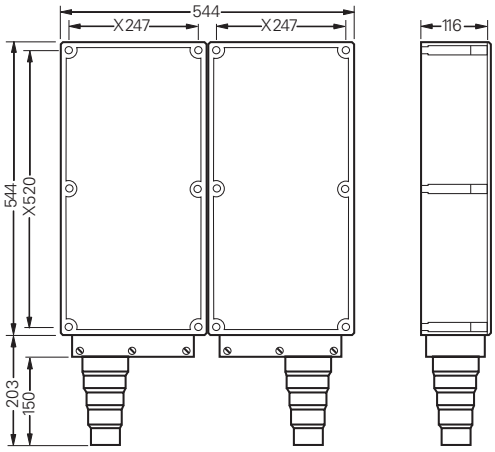
GHG 746 0301 R0020

GHG 746 0301 R0001

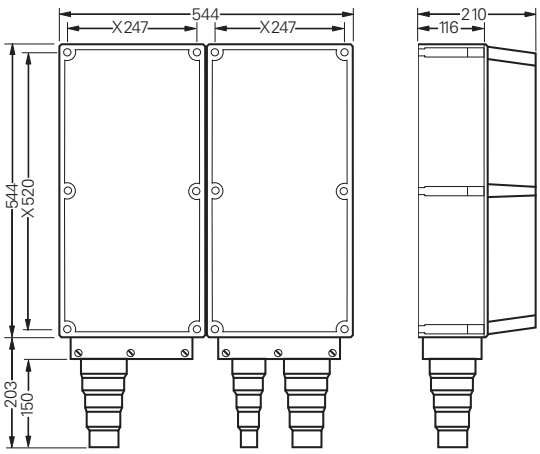
Dimension drawing



GHG 746 0301 R0001



GHG 746 0301 R0008



GHG 746 0301 R0020

X = fixing dimension

Dimensions in mm

Fixing Materials and Accessories

for distribution and junction boxes

Quickly installed

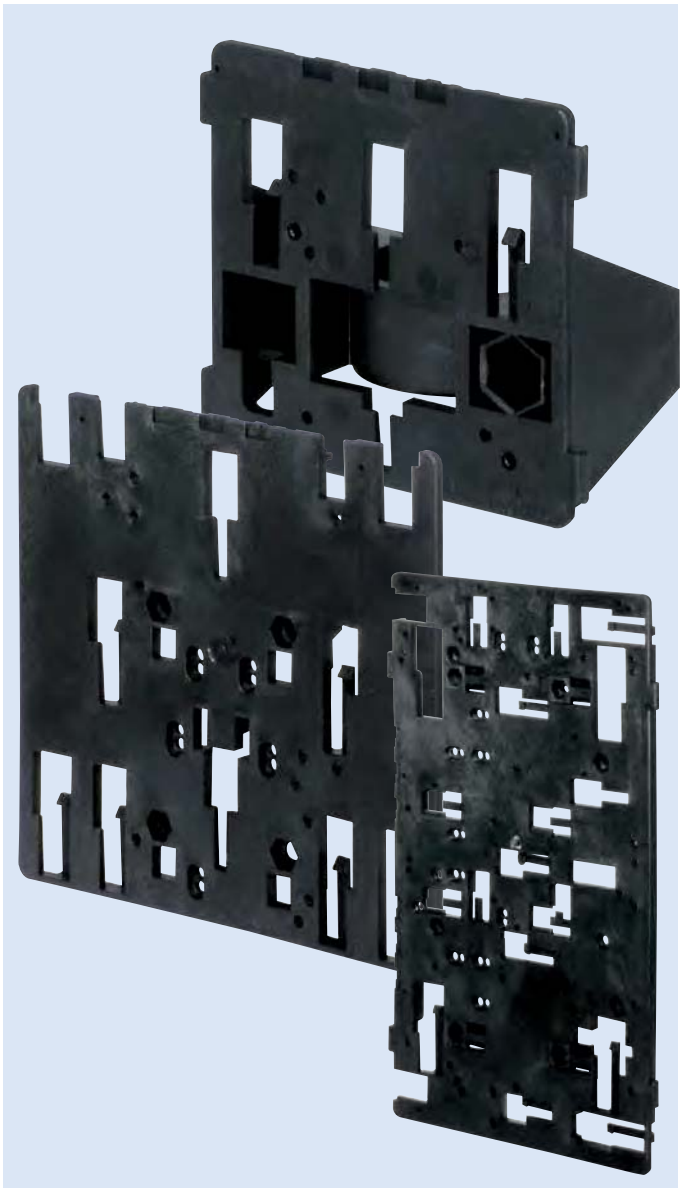
The CEAG mounting plates are the innovative answer to the customer requested ability for mounting apparatus without having to use tools.

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.

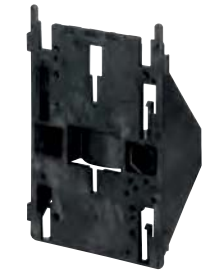
No “hot work permits” are needed!

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



Features

- **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**



GHG 610 1953 R0105

GHG 610 1953 R0106

GHG 610 1953 R0102

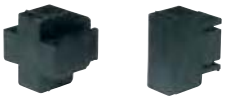
GHG 610 1953 R0103

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 clamp	**GHG 610 1953 R0102**
Size 2	Wall mounting	**GHG 610 1953 R0104**
Size 2	Trellis mounting	**GHG 610 1953 R0106**
Size 2	Pipe clamp	**GHG 610 1953 R0105**
Size 2A	Wall mounting	**GHG 610 1953 R0107**
Size 2A	Trellis mounting	**GHG 610 1953 R0109**
Size 2A	Pipe clamp	**GHG 610 1953 R0108**
Size 3	Wall mounting	**GHG 610 1953 R0118**
Size 3	Trellis mounting	**GHG 610 1953 R0118**
Size 3	Pipe clamp	**GHG 610 1953 R0110**
Size 4	Wall mounting	**GHG 610 1953 R0126**
Size 4	Trellis mounting	**GHG 610 1953 R0126**
Size 4	Pipe clamp	**GHG 610 1953 R0130**
Size 5	Wall mounting	**GHG 610 1953 R0128**
Size 5	Trellis mounting	**GHG 610 1953 R0128**
Size 5	Pipe clamp	**GHG 610 1953 R0132**

Protective canopy

Plug in fastener



Blind plug

Label holder with label

Accessories

Type	OU	Order No.
for mounting plate		
Label holder with type label (blank) for mounting plate 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 pay attention that only order units (OU) according to the ordering details can be delivered.

Type	Application	Order No.
Protective canopy for mounting plate		
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 vertical	**GHG 610 1955 R0104**
Size 3A	for mounting plates wall/trellis fixing size 3 vertical	**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**

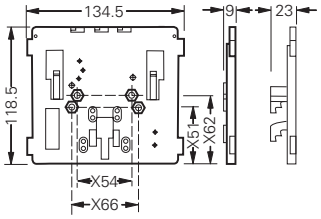
GHG 610 1953 R0105

GHG 610 1953 R0106

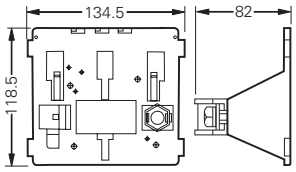
GHG 610 1953 R0102

GHG 610 1953 R0103

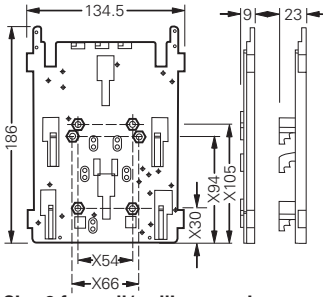
Dimension drawing



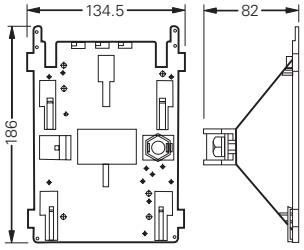
Size 1 for wall/trellis mounting



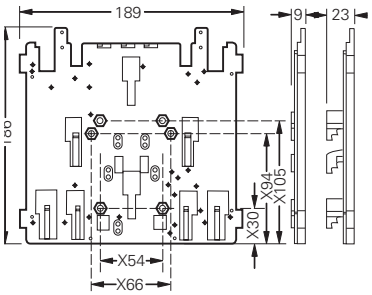
Size 1 for pipe mounting



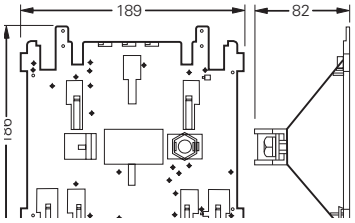
Size 2 for wall/trellis mounting



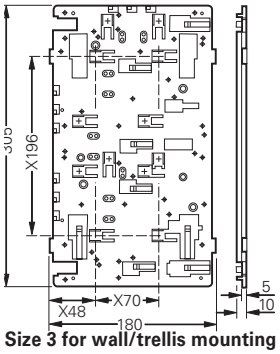
Size 2 for wall/trellis mounting



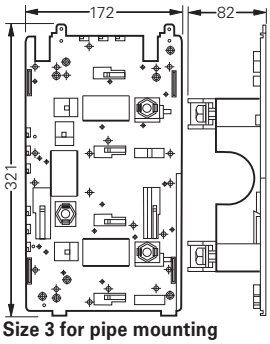
Size 2A for wall/trellis mounting



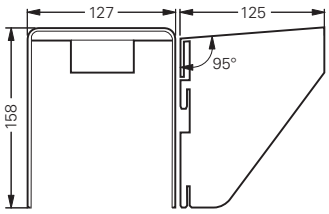
Size 2A for pipe mounting



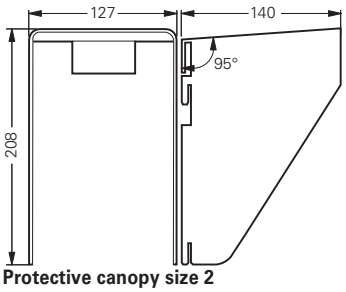
Size 3 for wall/trellis mounting



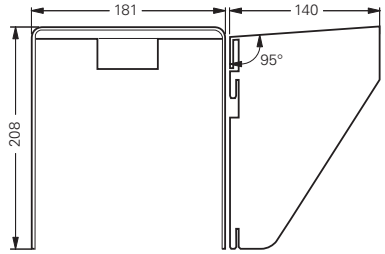
Size 3 for pipe mounting



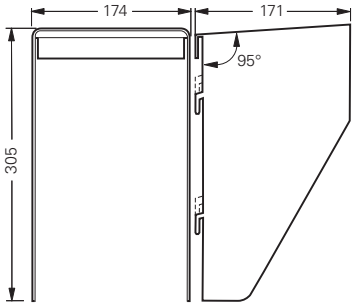
Protective canopy size 1



Protective canopy size 2



Protective canopy size 2A



Protective canopy size 3B

Dimensions in mm

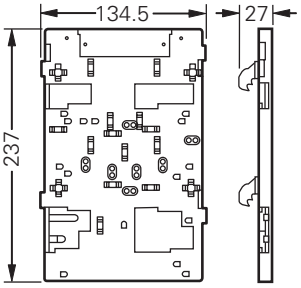
GHG 610 1953 R0105

GHG 610 1953 R0106

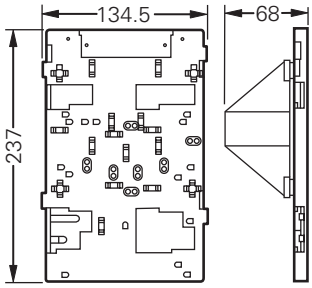
GHG 610 1953 R0108

Protective canopy

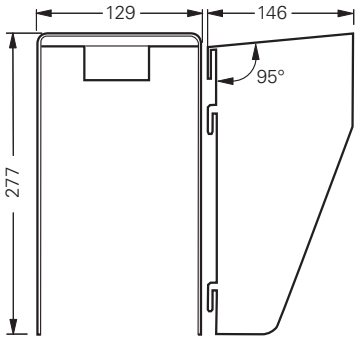
Dimension drawing



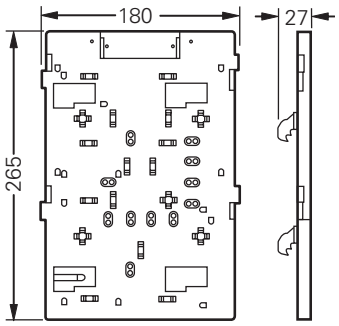
Mounting plate size 4
for wall/trellis mounting



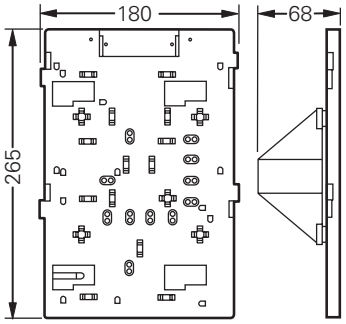
Mounting plate size 4
for pipe mounting



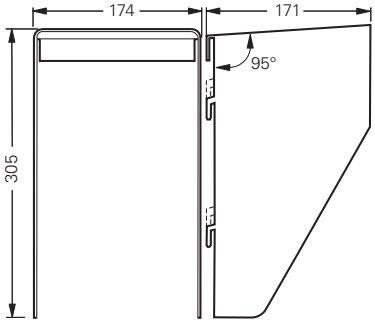
Protective canopy size 4



Mounting plate size 5
for wall/trellis mounting



Mounting plate size 5
for pipe mounting



Protective canopy size 5

Dimensions in mm