UNIVERSAL TERMINAL BOXES

Ex-e/Ex-i Technology
plastic version measuring and controlling for Zone 1, 2, 21 and 22

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.

The CEAG installation system provides an economical way of mounting the terminal boxes on walls, trellis work and pipes. The terminal boxes are suited for the use of single or multiple cable glands. With CEAG terminal boxes it is possible to apply separate potentials such as screen-grid leads or PE/PA conductors to the plug-in PE rails. The snap-out terminal rails allow a problem-free feeding-in of cables.

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

International approvals

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

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

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

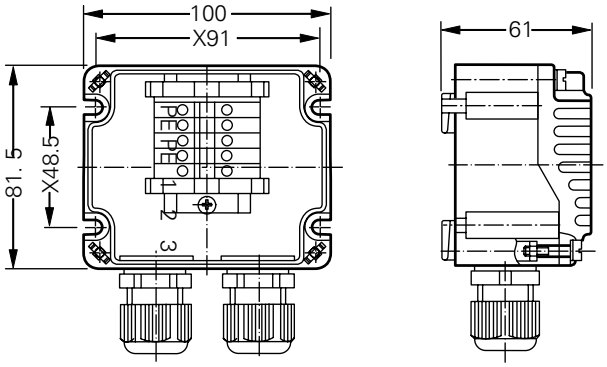
Accessories

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**

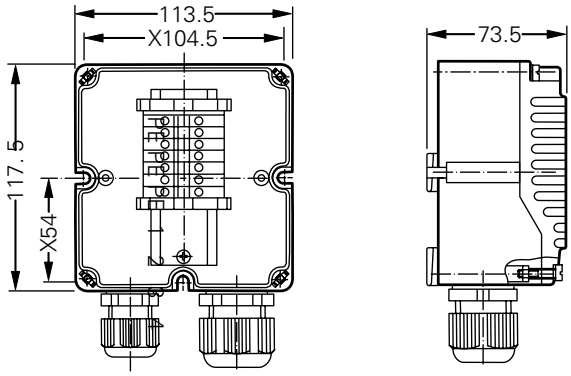
Type	Application	Fixing method	Order No.
Mounting plate for junction box 791 02			
Size 2	Wall mounting	snap on	**GHG 610 1953 R0104**
Size 2	Trellis mounting	snap on	**GHG 610 1953 R0106**
Size 2	Pipe clamp	snap on	**GHG 610 1953 R0105**
Protective canopy size 2	for mounting plate size 2		**GHG 610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

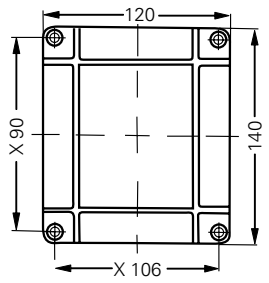
Accessories

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**

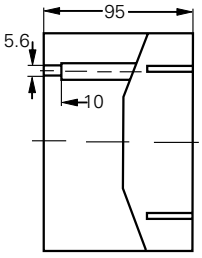
Type	Application	Fixing method	Order No.
Mounting plate for junction box 731 12			
Size 2A	Wall mounting	snap on	**GHG 610 1953 R0107**
Size 2A	Trellis mounting	snap on	**GHG 610 1953 R0109**
Size 2A	Pipe clamp	snap on	**GHG 610 1953 R0108**
Protective canopy size 2A	for mounting plate size 2A		**GHG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

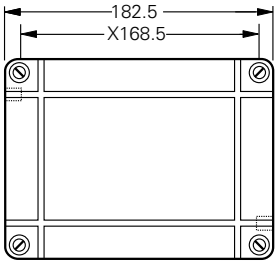
Details for accessories see page 2.2.80 up to 2.2.84.

Dimension drawing

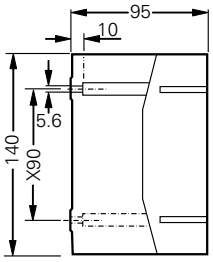


Type 731 11





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	Ⓔ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 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

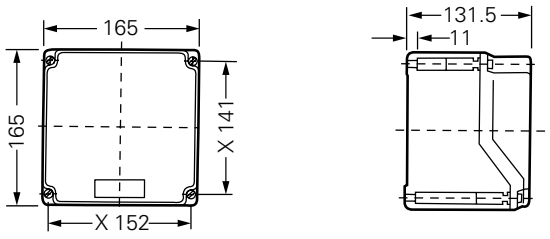
Accessories

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**

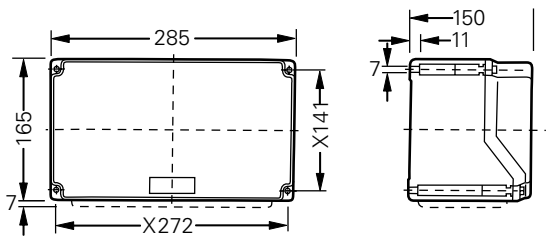
Type	Application	Fixing method	Order No.
Mounting plate for junction box 721 10			
Size 3	Wall mounting	screwless mounting	**GHG 610 1953 R0107**
Size 3	Trellis mounting	screwless mounting	**GHG 610 1953 R0109**
Size 3	Pipe clamp	screwless mounting	**GHG 610 1953 R0108**
Protective canopy size 3	for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

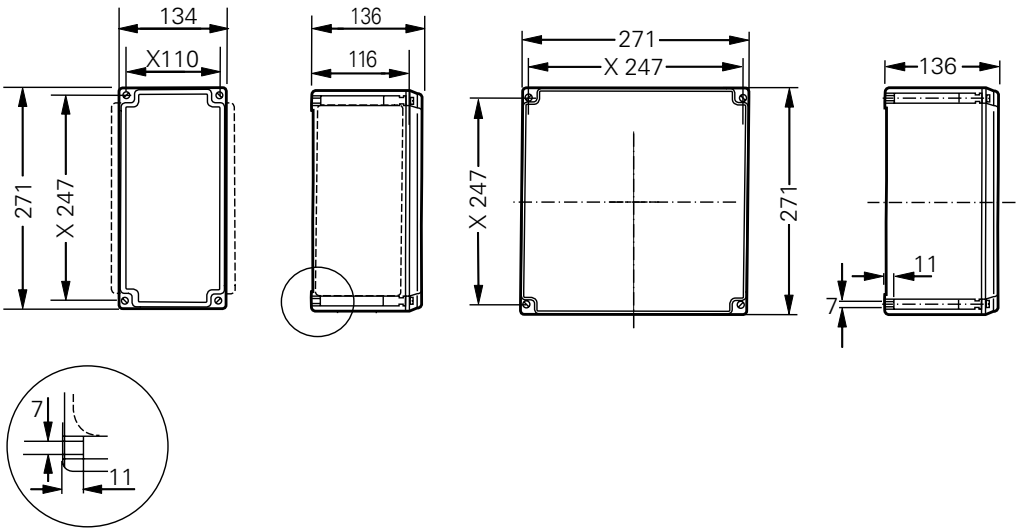
GHG 745 0201 R0012

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

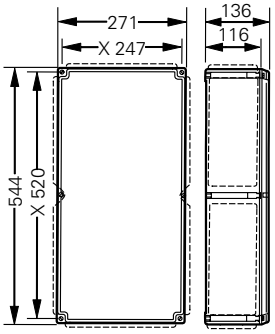
Type 749 04

Ordering details

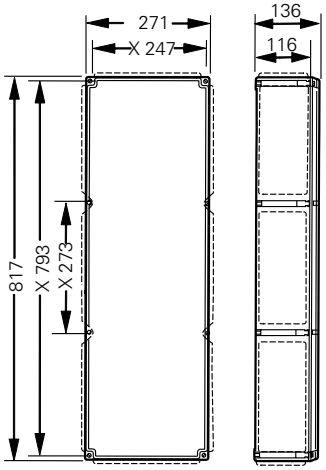
Content	Cable gland	No. of terminals	Order No.
Type 746 03 up to 188 terminals assembled with screw terminals 2 x 4 mm² + PE-rail 4 mm²			
Ex-e	2 x palstic flange down without drilling	1 x Ex-e[1)] 2 x 14 x PE	**GHG 746 0301 R0002**
Type 749 04 up to 296 terminals assembled with screw terminals 2 x 2.5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