



GHG 293



GHG 292

Technical data

Ex-control switch Typ 292 without and Typ 293 with measuring instrument		
	with GHG 29 Switch	with GHG 28 Switch
Marking accd. to 94/9/EC	$\text{II 2 G Ex ed ia IIC T5/T6}$ $\text{II 2 D Ex tD A21 IP66 T80 } ^\circ\text{C}$	$\text{II 2 G Ex ad ia IIC T5/T6}$ $\text{II 2 D Ex tD A21 IP66 T80 } ^\circ\text{C}$
EC-Type Examination Certificate	PTB 99 ATEX 1163	PTB 99 ATEX 1163
IECEX Certificate of Conformity	IECEX BKI 07.0011	IECEX BKI 07.0011
Marking accord. to IECEx	Ex ed ia IIC T5 or T6 Ex tD A21 IP66 T49 °C	Ex ed ia IIC T5 or T6 Ex tD A21 IP66 T49 °C
Permissible ambient temperature	-20 °C up to +40 °C -55 °C up to +47 °C (T6) ... +55 °C (T5) Option	
Rated voltage	max. 500 V	max. 690 V
Rated current	16 A	20 A
Rated current with gold contact points	0.4 A	
Overload range (Type 293 only)	10 fold - 25 sec. 25 fold - 4 sec. 50 fold - 1 sec. indicated 1 : 1.5	
Measuring range (type only 293)	max. 0 - 25 A direct / n / 1A	
Accuracy (type 293 only)	Class 2.5	
Movement (type 293 only)	Moving iron	
Rated making-/rated breaking capacity accd. EN 60947-5-1	AC-15: U_e 230 V / I_e 6 A U_e 400 V / I_e 4 A DC-13: U_e 24 V / I_e 2 A U_e 230 V / I_e 0.3 A	AC-15: U_e 230 V / I_e 8 A U_e 400 V / I_e 6 A DC-13: U_e 24 V / I_e 6 A U_e 230 V / I_e 0.4 A
Connecting terminals	2 x 0.5 - 2.5 mm ² or 1 x 1.0 - 6.0 mm ²	
Degree of protection accd. to EN 60529	IP66	
Cable glands/Gland plates/Enclosure drilling	1 x M25 (Ø 8 - 17 mm) ^{1) 2)}	
Dimensions (L x W x H)	GHG 292	170 x 110 x 129 mm
	GHG 293	225 x 110 x 129 mm
Weight	GHG 292	approx. 1.10 kg (1 level) approx. 1.25 kg (2 level) approx. 1.40 kg (3 level)
	GHG 293	approx. 1.90 kg (1 level) approx. 2.05 kg (2 level) approx. 2.20 kg (3 level)
Enclosure material	glass-fibre reinforced polyester	
Enclosure colour	black	

¹⁾ Brass flange for metal entries available on request

²⁾ Control switches with direct indicating measuring instruments in the standard version are delivered with 2 looping terminals and PE terminal as well as M32 and M25 cable entries.

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Ordering code for control switch (Code 2) Code A - B1 - B2 - C - D - E1 - E2 - F

A	B1	B2	C	D	E	E2	F ¹⁾
GHG 29_	_	_	_	_	_	_	_

Code	Component	Code
A	Control switch	GHG 292
	Control switch with measuring instrument	GHG 293

Code	Switching system	Code
B1	spring – engaging – spring	4
	engaging – engaging – engaging	5
	engaging – engaging	6
	spring – engaging – engaging	7
	engaging – engaging – spring	8

Code	Contact	silver contact points	Code	silver contact points
B2		060		034
		062		037
		065		049
		061		023
		063		019
		067		033
		011		024

Other versions as well as gold contact points are available on request.

Code	Inscription (labels)	Code	Inscription (labels)	Code	Inscription (labels)
C	0	I	001	0	I
	I	II	002	AUS	AUTO
	STOP	START	003	AUS	HAND
	HAND	AUTO	004	ÖRTLICH	AUS
	SENKEN	HEBEN	005	START	NORMAL
	REMOTE	LOCAL	006	OFF	0
	I	0	007	HAND	OFF
	AUS	BETRIEB	008	0	IN
	AUS	0	009	MAN	START
	AUF	0	010	START	STOP
	Entriegelt	0	011	HEBEN	SENKEN
	OUT	OF	012	OFF	ON
	LOCAL	REMOTE	013	AUS	EIN
	STOP	0	014	HAND	AUTO
	HAND	0	015	ON	OFF
	AUF	AUS	016	I	II
	HAND	AUS	017		III



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Ordering code for control switch (Code 2) Code A - B1 - B2 - C - D - E1 - E2 - F

Code	Padlocking facility	Code
D	none <input type="checkbox"/>	0
	centre <input type="checkbox"/>	1
	left <input type="checkbox"/>	2
	right <input type="checkbox"/>	3

Code	Movement	Code
E1	Direct connection	01
	CT connection 1 /A	02
	Connection 0 - 20/24 mA (scale 0-100% / 120%)	05
	Connection 4 - 20/24 mA (scale 0-100% / 120%)	06
	Moving-coil connection 0 - 20/24 mA (scale 0-100% / 120%)	07
	Moving-coil connection 4 - 20/24 mA (scale 0-100% / 120%)	08

Code	Measuring range/Scale	Code	Measuring range/Scale	Code
E2	0 - 1	002	0 - 75 / 112.5 A	013
	0 - 2.5 / 3.75 A ²⁾	003	0 - 100 / 150 A	014
	0 - 5 / 7.5 A ²⁾	004	0 - 150 / 225 A	015
	0 - 10 / 15 A ²⁾	005	0 - 200 / 300 A	016
	0 - 15 / 22.5 A	006	0 - 250 / 375 A	017
	0 - 20 / 30 A ²⁾	008	0 - 300 / 450 A	018
	0 - 30 / 45 A	009	0 - 400 / 600 A	019
	0 - 40 / 60 A	010	0 - 500 / 750 A	020
	0 - 50 / 75 A	011	0 - 600 / 900 A	021
	0 - 60 / 90 A	012	0 - 100% / 150%	031

Code	Built-in components	Description	
F1	Entry type	entry direct in enclosure	GEH
		entry via plastic flange	FLK
		entry via metal flange	FLM
F2	Entry element	only threaded entry	BO
		screw plug	SV
		cable entry moulded plastic	GK
		cable entry moulded metal ²⁾	GM ²⁾
		cable entry with plug	GV
			M1 Ø ..
F3	Size	M12, M16, M20, M25, M32, M40 Ø21, Ø26	
F4	Number	number of entries	..

¹⁾ The code will represent only a selected part of configuration.

²⁾ Only available with metal flange

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4 Example for ordering code (Code 2)

Control switch with silver contact points, Switching system „5“, Circuit „063“,

Labels „HAND-0-AUTO“, can be locked at „0“,

Measuring instrument AM72 for CT connection „n/1A“, Scale „0 - 50/75 A“,

Cable gland 1 x threaded entry M25 on bottom direct entry.

Code A	B1	B2	C	D	E1	E2	F1	F2	F3	F4
GHG 293 /	5 /	063 /	015 /	1 /	2 /	011 /	GEH /	BO /	M25 /	1

Ordering details

Switching system	Circuit	Code	Labels	Order No.
Control switch Typ 292 with silver contact points				
Version with padlocking facility in „0“- or position „right (Code 3)“, cable gland 1 x M25 bottom.				
6		062	0 I	GHG 292 1000 R0001
6		065	0 I	GHG 292 1000 R0002
4		067	0 I	GHG 292 1000 R0003
8		067	0 I	GHG 292 1000 R0004
4		037	0 I	GHG 292 2000 R0002
8		037	0 I	GHG 292 2000 R0003
5		024	I 0 II	GHG 292 2000 R0004
5		023	HAND OFF AUTO	GHG 292 2001 R0001

Switching system	Circuit	Code	Labels	Order No.
Control switch with measuring instrument type 293 with silver contact points				
Version with padlocking facility in „0“- or position „left“, measuring instrument AM 72 for CT connection n/1A, Scale 0 - 100/150 %.				
1 x M32 bottom.				
6		062	0 I	GHG 293 1000 R0001
6		065	0 I	GHG 293 1000 R0002



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Accessories

Mounting plate for type 292

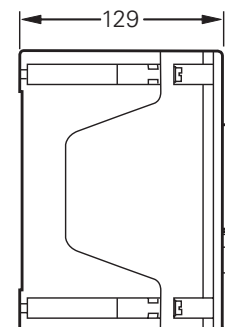
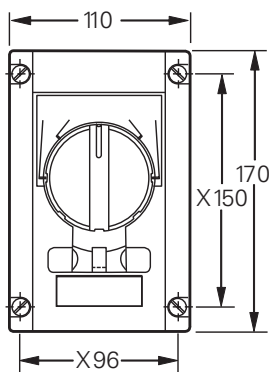
Type	Application	Fixing method	OU	Order No.
Size 2	wall mounting	snap on	1	GHG 610 1953 R0104
Size 2	pipe clamp	snap on	1	GHG 610 1953 R0105
Size 2	trellis-work mounting	snap on	1	GHG 610 1953 R0106
Size 4	wall mounting	snap on *	1	GHG 610 1953 R0128
Size 4	trellis-work mounting	snap on *	1	GHG 610 1953 R0128
Size 4	pipe clamp	snap on *	1	GHG 610 1953 R0132

Mounting plate for type 293

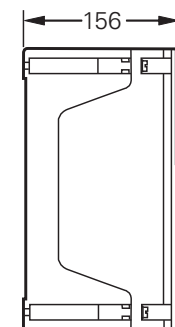
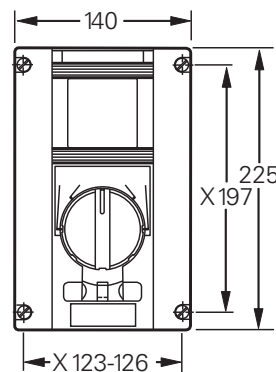
Type	Application	Fixing method	OU	Order No.
Size 3	wall mounting	snap on	1	GHG 610 1953 R0118
Size 3	pipe clamp	snap on	1	GHG 610 1953 R0110
Size 3	trellis-work mounting	snap on	1	GHG 610 1953 R0118
Size 5	wall mounting	snap on *	1	GHG 610 1953 R0128
Size 5	trellis-work mounting	snap on *	1	GHG 610 1953 R0128
Size 5	pipe clamp	snap on *	1	GHG 610 1953 R0132
Plug-in fastener for CEAG modules with 5.5 mm and 11 mm fixing elements 4 pieces			10	GHG 610 1953 R0041

*snap-on with snap-on mounting 5.5 mm

Dimension drawing



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X = fixing dimensions

Dimensions in mm