



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	Ex II 2 G Ex ed ia IIC T5/T6 Ex II 2 D Ex tD A21 IP66 T80 °C	Ex II 2 G Ex ad ia IIC T5/T6 Ex II 2 D Ex tD A21 IP66 T80 °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_n 230 V / I_n 6 A U_n 400 V / I_n 4 A DC-13: U_n 24 V / I_n 2 A U_n 230 V / I_n 0.3 A	AC-15: U_n 230 V / I_n 8 A U_n 400 V / I_n 6 A DC-13: U_n 24 V / I_n 6 A U_n 230 V / I_n 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

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

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

Code	Inscription (labels)			Code	Inscription (labels)			Code
C	0		I	001	0	I	II	018
	I		II	002	AUS	AUTO	EIN	019
	STOP		START	003	AUS	HAND	AUTO	020
	HAND		AUTO	004	ÖRTLICH	AUS	FERN	021
	SENKEN		HEBEN	005	START	NORMAL	STOP	022
	REMOTE		LOCAL	006	OFF	0	ON	023
	I	0	II	007	HAND	OFF	AUTO	024
	AUS	BETRIEB	EIN	008	0	IN	START	025
	AUS	0	EIN	009	MAN		AUTO	026
	AUF	0	AB	010	START		STOP	027
	Entriegelt	0	Verriegelt	011	HEBEN		SENKEN	028
	OUT	OF	HAND	012	OFF		ON	029
	LOCAL	REMOTE	AUTO	013	AUS		EIN	030
	STOP	0	START	014	HAND		AUTO	031
	HAND	0	AUTO	015	ON		OFF	032
	AUF	AUS	ZU	016	I	II	III	033
	HAND	AUS	AUTO	017				



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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 	0
	centre 	1
	left 	2
	right 	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
F3	Size	M12, M16, M20, M25, M32, M40	M1 Ø ..
F4	Number	Ø21, Ø26	..
		number of entries	..

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

²⁾ Only available with metal flange

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Example for ordering code (Code 2)

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

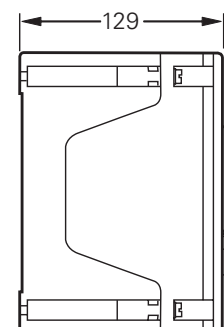
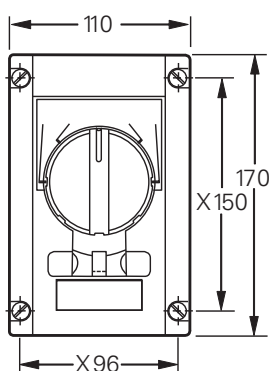
Type	Application	Fixing method	OU	Order No.
Size 2	wall mounting	snap on	1	GHG 610 1953 R0104
Size 2	pipe clamp	snap on	1	GHG 610 1953 R0105
Size 2	trellis-work mounting	snap on	1	GHG 610 1953 R0106
Size 4	wall mounting	snap on *	1	GHG 610 1953 R0128
Size 4	trellis-work mounting	snap on *	1	GHG 610 1953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

Mounting plate for type 293

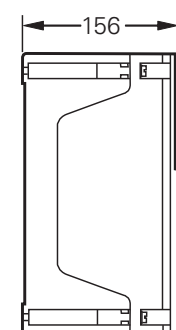
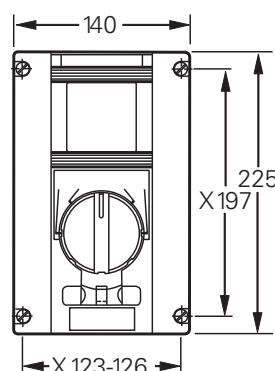
Type	Application	Fixing method	OU	Order No.
Size 3	wall mounting	snap on	1	GHG 610 1953 R0118
Size 3	pipe clamp	snap on	1	GHG 610 1953 R0110
Size 3	trellis-work mounting	snap on	1	GHG 610 1953 R0118
Size 5	wall mounting	snap on *	1	GHG 610 1953 R0128
Size 5	trellis-work mounting	snap on *	1	GHG 610 1953 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