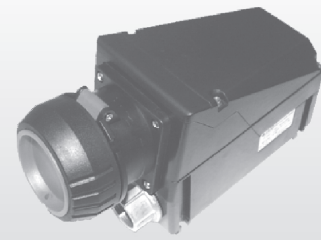


Explosion protected plug and socket system 30 A, 4-pole and 5-pole, GHG 512

**Class I Zone 1**  
**Class I Div. 2 Group A,B,C,D**  
**Class II Div. 1 Group E,F,G (CSA)**  
**Class II Div. 2 Group F,G**



GHG 512 45



GHG 512 75



Annex to operating instructions



**CAUTION**

*Read these annex to operating instruction sheet and the original operating instructions*

*"GHG 510 7001 P0001" completely, all sheets, before wiring and use.*

**WARNING**

*Do not alter this product in any way.*

*Doing so may lead to serious injury or death.*

*To avoid dangerous overheating, do not use aluminium wiring. Use copper wire only.*

*To avoid electrical shock electrical power must be "off" before and during installation, inspection and maintenance.*

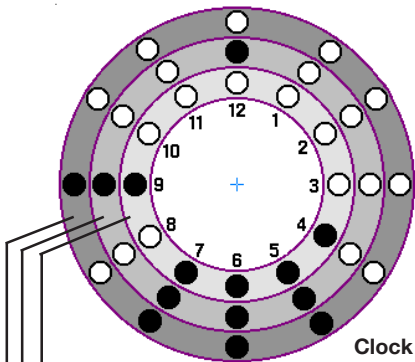
*To avoid electrical shock, always disconnect primary power source before opening device or enclosure for inspection or service.*

*Observe the national safety rules and regulations.*

# Annex to operating instructions

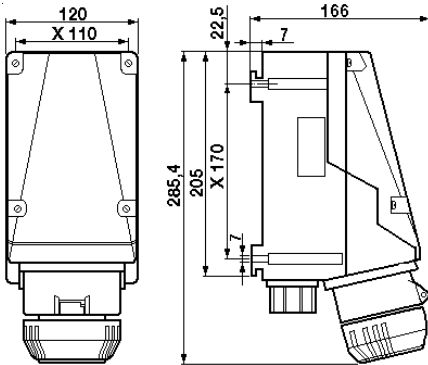
## Plug and socket system 30A, GHG 512

Code for voltage and No. of poles  
acc. to UL

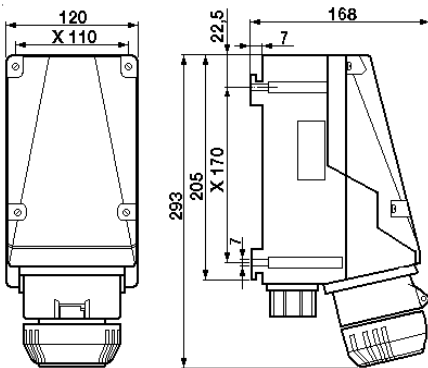


Voltage	Colour face (PE)	Clock face
<b>2-pole + PE</b>		
125V 60Hz	yellow	4 h
250V 60Hz	blue	6 h
480V 60Hz	red	7 h
<b>3-pole + PE</b>		
600V 60Hz	black	5 h
480V 60Hz	red	7 h
250V 40Hz	blue	9 h
125/250V 60Hz	orange	12 h
<b>3-pole + N + PE</b>		
600V 60Hz	black	5 h
277V 60Hz	red	7 h
120/208V 60Hz	blue	9 h

Dimensions in mm  
X = fixing dimensions



Wall socket, 4-pole



Wall socket, 5-pole

## 1 Technical data

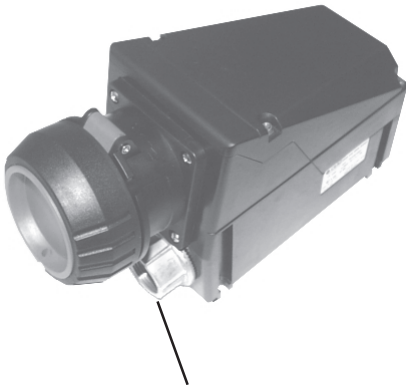
### 1.1 Plug and socket GHG 512

Explosion category:			
for USL	AEx de II C T6		
for CNL	Ex de II C T6		
Certifications and Compliances:			
for USL	Class I, Zone 1 Class I, Division 2 - Groups A, B, C and D		
for CNL	Class I, Zone 1 Class I, Division 2 - Groups A, B, C and D Class II, Division 1 - Groups E, F and G		
Rated voltage:	up to 600 V, 60 Hz		
Rated current:	max. 30 A		
Back-up fuse:			
without thermal protection	max. 30 A		
with thermal protection	max. 50A gL		
Switching capacity:	690V / 30A		
Perm. ambient temperature:	-20° C to + 40° C (catalogue version)		
Special versions permit deviating temperatures.			
Perm. storage temperature in original packing:	-55° C to + 80° C		
Protection category acc. to IEC 60529			
with closed and secured hinged cover as well as combinations properly plugged together	IP 66 (catalogue version)		
Insulation class acc. to IEC61140:	I - is complied with by the devices		
Cable entry:	(catalogue version)		
Wall socket	2 x M32, (1 x hub M32 / 1" NPT, 1 x blanking plug)		
plug / Coupler	Ø 12 - 28 mm		
Supply terminal:	Cross section	Stripped wire length	
Wall socket	2 x AWG 16 - 12	12 mm	
Coupler	2 x AWG 16 - 12	12 mm	
Flange socket	2 x AWG 16 - 12	12 mm	
Plug	1 x AWG 17 - 14	10 mm	
Test torques:			
Cover screws	22.0 Lb-in.		
Terminals wall-; flange socket	22.0 Lb-in.		
Terminals plug	13.2 Lb-in.		
Self-cutting screws size 4	14.2 Lb-in.		
Self-cutting screws size 5	26.0 Lb-in.		
Weight:			
Wall socket	4-pole	GHG 512 44	approx.2.25 kg (incl. hub M32 /1" NPT)
Plug	4-pole	GHG 512 74	approx.0.55 kg
Coupler	4-pole	GHG 512 34	approx.1.50 kg
Flange socket	4-pole	GHG 512 84	approx.1.00 kg
Wall socket	5-pole	GHG 512 45	approx.2.30 kg (incl. hub M32 /1" NPT)
Plug	5-pole	GHG 512 75	approx.0.60 kg
Coupler	5-pole	GHG 512 35	approx.1.60 kg
Flange socket	5-pole	GHG 512 85	approx.1.05 kg
Auxiliary contact:			
Rated voltage:	250 VAC		
Rated current:	AC / 5 A	DC / 0.03 A	

# Annex to operating instructions

## Plug and socket system 30A, GHG 512

Wall socket



1x hub M32 / 1" NPT  
+ 1x blanking plug M32

## 2 Safety instructions



**Attention!** These "Annex for operating instructions" GHG 510 7001 P0004 is only for use with the original operating instructions GHG 510 7001 P0001.

The GHG 512 plugs and sockets are not suitable for Zone 0 hazardous areas.

For installation only by qualified electrician in accordance with the National Electric Code, Canadian Electric Code, applicable local codes and the instructions.

Select proper wire size and type for load and application. Refer to National Electric Code, Article 400, for wire information.

The temperature class and explosion group marked on the apparatus shall be observed.

Modifications to the plugs and sockets or changes of their design are not permitted.

They shall be used for their intended purpose and in perfect and clean condition.

For replacement and repair only genuine CEAG spare parts shall be used. Repairs that affect the explosion protection, may only be carried out by CEAG or a qualified electrician in compliance with the respective national regulations.

Prior to taking the plugs and sockets into operation, they will have to be checked in accordance with the instruction as per section 6.

The sockets may only be used with the associated CEAG plugs in undamaged condition.

The interlocking switch of the socket is mechanically secured by means of spring-loaded locking pins, and cannot be connected without plug.

Before the initial operation, any foreign matter will have to be removed from the inside of the plugs and sockets.

Observe the national safety rules and regulations for prevention of accidents as well as the safety instructions included in these operating instructions and set in italics the same as this text!

## 3 Conformity with standards

The plugs and sockets meet the requirements of the following standards:

**CEC Part1** Canadian Electrical Code  
**C22.2 No.182.2-02** Plugs and Receptacles

**C22.2 No 60079-0-02** Electr. App. for Expl. Gas Atmosp.- Part 0: General Requirements.  
**C22.2 No 60079-1-02** Electr. App. for Expl. Gas Atmosp.- Part 1: Flameproof Enclosure "d".

**C22.2 No 60079-7-03** Electr. App. for Expl. Gas Atmosp.- Part 7: Increased Safety "e".

**C22.2 No 61241-1-1-03** Electr. App. protected by enclosures and surface limitation - Specification for apparatus.

**NFPA 70** National Electric Code.  
**UL 1682** Plugs and Receptacles.  
**UL 1686** Pin and Sleeve Configurations.  
**UL 60079-0** Electr. App. for Expl. Gas Atmosp.- Part 0: General Requirements.  
**UL 60079-1** Electr. App. for Expl. Gas Atmosp.- Part 1: Flameproof Enclosure "d".  
**UL 60079-7** Electr. App. for Expl. Gas Atmosp.- Part 7: Increased Safety "e".  
**UL 1203** Explosion-Proof and Dust Ignition-Proof Electrical Equipment for use in Hazardous (Classified) Locations.

## 4 Field of application

The plugs and sockets GHG 512 are suitable for use in:

Class I, Zone 1  
Class I, Division 2 - Groups A, B, C and D

Class I, Zone 1  
Class I, Division 2 - Groups A, B, C and D  
Class II, Division 1 - Groups E, F and G (cUL)!

The enclosure materials employed, including the exterior metal parts, are made of high-quality materials which ensure a corrosion protection and resistance to chemical substances corresponding to the requirements in a "normal industrial atmosphere":

- impact resistant polyamide
- glass-fibre reinforced polyester
- special steel AISI 316 L

In case of use in an extremely aggressive atmosphere, please refer to manufacturer.

## 5 Use/Properties

The GHG 512 plugs and sockets are used for the power supply of local controls with varying locations, as well as of electrical installations, mobile machinery and driving gear in hazardous areas.

The plugs and sockets can also be used in a „normal industrial area“.

The low-voltage plugs and sockets GHG 512 are fitted with a load break switch and can be used up to max. 30 A (see technical data).

In order to switch on the socket, the plug is inserted, pushed fully home and then turned through approx. 45° to the right. Thereby the plug is locked in the socket (see page 9, fig. 1).

For switching off and pulling the plug, proceed in reverse order.

After separating the plug from the socket, the latter shall be closed with the hinged cover and secured with the bayonet ring.

# Annex to operating instructions

## Plug and socket system 30A, GHG 512

*The plug can be pushed into the socket and pulled out of it only whilst the socket is switched off.*

*In order to activate the socket, the plug is pushed fully home. Then the plug can be turned through 45° to the right in order to lock the interlocking switch (see page 9 fig. 1)!*

In order to ensure the socket's type of protection acc. to the type label also with the plug being inserted, the bayonet ring of the plug (page 9, fig. 2, item 2) is turned to its stop onto the socket.

**The data as per point 3 and 4 will have to be taken into account with the use. Applications other than described are not permitted without CEAG's prior written consent.**

### 6 Conduit instructions

**To maintain the environmental rating of the enclosure:**

The existing bottom conduit entry holes must be closed with the included hubs along with a 1/2" or 3/4" NPT plug (not included).

Note: The threads in the bottom of the enclosure are metric M32x1.5 / 1" NPT

**Check for secure and tight fit of the KO plugs.**

### 7 Grounding instructions

**If a metallic conduit system is used to provide the equipment ground to the wall socket:**

Secure the provided green and yellow "pigtail" to the ground screw on internal earth plate.

Then secure the opposite end to a ground terminal block inside the box. The pigtail completes the grounding path to the wall socket terminal.

**If a separate equipment grounding conductor in the conduit is used:**

The grounding conductor must be connected to the ground terminal block inside the enclosure.

**If a METAL closure plug is used to close an unused conduit hole:**

**A METAL closure plug MUST be grounded (bonded) back to the ground terminal block.**

**NOTE:** Only one conductor per terminal.

CZ: "Tento návod k použití si můžete vyžádat ve svém mateřském jazyce u příslušného zastoupení společnosti Cooper Crouse-Hinds/CEAG ve vaší zemi."

DK: "Montagevejledningen kan oversættes til andre EU-sprog og rekvireres hos Deres Cooper Crouse-Hinds/CEAG leverandør"

E: "En caso necesario podrá solicitar de su representante Cooper Crouse-Hinds/CEAG estas instrucciones de servicio en otro idioma de la Union Europea"

EST: "Seda kasutusjuhendit oma riigikeeles võite küsida oma riigis asuvas asjaomasest Cooper Crouse-Hinds/CEAG esindusest."

FIN: "Tarvittaessa tämän käyttöohjeen käännös on saatavissa toisella EU:n kielellä Teidän Cooper Crouse-Hinds/CEAG - edustajaltanne"

GR: "Εάν χρειασθεί, μετάφραση των οδηγιών χρήσεως σε άλλη γλώσσα της ΕΕ, μπορεί να ζητηθεί από τον Αντιπροσωπιο της Cooper Crouse-Hinds/CEAG"

H: "A kezelési útmutatót az adott ország nyelvén a Cooper Crouse-Hinds/CEAG cég helyi képviselőtől igényelheti meg."

I: "Se desiderate la traduzione del manuale operativo in un'altra lingua della Comunità Europea potete richiederla al vostro rappresentante Cooper Crouse-Hinds/CEAG"

LT: "Šios naudojimo instrukcijos, išverstos į Jūsų gimtąją kalbą, galite pareikalauti atsakingoje "Cooper Crouse-Hinds/CEAG" atstovybėje savo šalyje."

LV: "Šo ekspluatācijas instrukciju valsts valodā varat pieprasīt jūsu valsts atbildīgajā Cooper Crouse-Hinds/CEAG pārstāvniecībā."

M: "Jistgħu jitolbu dan il-manwal fil-lingwa nazzjonali tagħhom minghand ir-rappreżentant ta' Cooper Crouse Hinds/CEAG f'pajjiżhom."

NL: "Indien noodzakelijk kan de vertaling van deze gebruiksinstructie in een andere EU-taal worden opgevraagd bij Uw Cooper Crouse-Hinds/CEAG - vertegenwoordiging"

P: "Se for necessária a tradução destas instruções de operação para outro idioma da União Europeia, pode solicita-la junto do seu representante Cooper Crouse-Hinds/CEAG"

PL: "Niniejszą instrukcję obsługi w odpowiedniej wersji językowej można zamówić w przedstawicielstwie firmy Cooper-Crouse-Hinds/CEAG na dany kraj."

S: "En översättning av denna montage- och skötselinstruktion till annat EU - språk kan vid behov beställas från Er Cooper Crouse-Hinds/CEAG- representant"

SK: "Tento návod na obsluhu Vám vo Vašom rodnom jazyku poskytne zastúpenie spoločnosti Cooper Crouse-Hinds/CEAG vo Vašej krajine."

SLO: "Navodila za uporabo v Vašem jeziku lahko zahtevate pri pristojnem zastopništvu podjetja Cooper Crouse-Hinds/CEAG v Vaši državi."

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