



Switch-Disconnecter According to IEC/EN 62626-1
GHG 26 (10 - 180 A) and GHG 981 (25-630 A) for Industrial- & Ex-Applications



Switch-Disconnecter accd. IEC/EN 62626-1

CEAG safety switches from 10 A up to 180 A for Ex-Zone 1 and 21 as well as GHG 981 from 25 A - 630 A for zone 2 & 22 and industrial applications

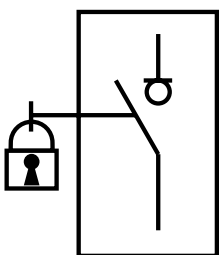


Safety first

Occupational safety always has top priority! For this reason, whenever it is necessary to carry out maintenance, cleaning or repair work, it must be possible to isolate machines and installations from the electrical power supply in an absolutely safe and reliable way. Normally this is realised by switch-disconnectors (safety-switches) according to **IEC/EN 62626-1**.

In what applications is IEC 62626-1 compliance required?

This standard applies to various applications to provide isolation of electrical equipment, namely motor circuits. Switch-disconnectors used in these applications are commonly known as "safety switches," "repair- and maintenance switches," or "isolators" and are placed in close proximity to the equipment. Position switches, inspection switches, and other switches are not covered by this standard.



Picture 1:
The symbol switch- disconnector marks a switch-disconnector accd. to IEC/EN 62626-1

What are the requirements of the standard?

The standard divides products into two classifications:

- **Class 0** for general use
- **Class 1** for harsh and rough/ heavy duty conditions.

All products installed in ATEX/IECEx hazardous areas should be rated for Class 1.

Class 1 requirements include minimum ratings for mechanical strength, IP protection, tamper resistance, heat/vibration/corrosion resistance, switching capacity, and locking capability.

How can safety switches meeting the standard be identified?

Switch disconnectors complying with the new standard **IEC/EN 62626-1** can be easily identified by two mandatory labels located on the switch enclosure.

First, the symbol "switch disconnector" (picture 1).

Additionally, the label "Safety Switch" must be on the front of the enclosure (picture 2).



Picture 2:
Safety switch label



Our safety switches fulfil all requirements of the IEC/EN 62626-1. So they can be used reliably in harsh environments for Zones 1,21, 2, and 22 as well as any industrial application!

By meeting the specific conditions of class 1 we can confirm the following characteristics:

- High IK09 impact resistance
- Protection class IP66
- AC 3 switching capacity
- 3 times lockable in OFF position
- Interlock to prevent the opening of the cover in "OFF" position
- Moisture heat, salt mist and vibration test cat. C + D



Safe Disconnection during Repair and Maintenance

Switch-Disconnecter accd. IEC/EN 62626-1

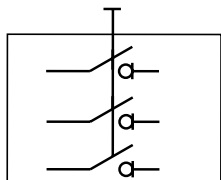
Contacts

We confirm that safety switches GHG 26 series (10 A - 180 A) and GHG 981 (25 A - 630 A) from CEAG use compulsory open main current contacts with AC-3 switching capacity according to IEC/EN 60947-3.

“Late make, early break” (20 ms) auxiliary contacts guarantee redundant safety for extreme switching requirements.

These auxiliary contacts fulfil the required **20 ms** make/break separation for a safe switch of the switching elements with typical operating rate.

This means e.g. when switching a frequency converter, which requires the 20 ms, through the auxiliary contacts the outgoing of the frequency converter will be voltage free before the main contacts are opened.



Because some frequency converters require greater than the **20 ms** late make/early break the operating characteristics of the converter should always be confirmed with the manufacturer.

In the event that the standard 20 ms late make/early break is not sufficient, we can offer specialized solutions to ensure maximum safety. By adding an additional control switch to the safety switch, safe disconnection is guaranteed with the second operating handle. Please feel free to contact us!

For any application

All GHG26 series (10 A - 180 A) and GHG 981 (25 A - 630 A) safety switches meet the strict requirements of class 1 IEC/EN 62626-1.

CEAG safety switches in 3-, 4- and 6-pole design are available in sizes from 10 A up to 180 A. They have compulsory open main current contacts with AC-3 switching capacity.

Emergency Stop

Optionally all safety switches are available as an EMERG.-STOP version to EN 60204-1, featuring a red handle with a yellow backplate.



Mounting

All safety switches up to 180 A can be mounted simply and quickly with the CEAG mounting system to pipes, trellis work and walls. What's more, CEAG switches up to 40 A offer low-cost mounting - in a snap, with the snap-on system.



Enclosure

All types are available with a robust plastic housing or with a stainless steel enclosure. They can also be used with screwable flange plates. They are extremely robust and corrosion resistant and very useful for applications with rough and hazardous environment and under extreme conditions.



Features

- Meet all requirements of IEC/EN 62626-1 and the Directive 2006/42/EC (Machinery Directive)
- AC-3 switching capacity
- Redundant safety: additional auxiliary contacts (20 ms)
- Cost-saving installation snap-on mounting up to 40 A
- High degree of protection IP66
- Reliable corrosion protection
- Wide temperature range from -55 °C up +55 °C (depends on type)



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