

Technical Datasheet

for Personal Protective Equipment: Electricians face shield on headgear with forehead guard

<u>Articleno.:</u> GFKKH002-E				<u>Description:</u> Electricians face shield made with chin guard (class 2 7kA), attached to headgear with forehead guard	
EN Norms:				CE-Certificate:	
EN 166	EN 170	GS-ET-29		C7368UHL/R0	
Technical features					
Weight: 335g					
- headgear made of plastics - the head width is adjusted by means of a knob - resist a short-circuit current of max. 7kA at 0,5sec.				- the face shields are attached with an eccentric toggle to the forehead guard - the face shields can be lifted - the face shields are suitable for use up to 1.000 V	
Used materials:					
Forehead guard:		Polypropylene (PP) GV 20			
Headgear:		Polyethylene (PDPE)			
Plastic screws:		Polypropylene (PP) GV 30			
Sweat band:		Leather substitute			
Face shield:		Polycarbonate, 2,0mm			
Chin guard:		Polycarbonate			
Extension:		Nomex			
Fields of use:					
- workplaces without hard hat duty (e.g. garages) - live works with high voltage up to 1.000 V				areas in which an electric arc class 2 (7 kA) could occur	
Marking:		2C-1,4 UHL 1 B 8-2-1 – (for face shield) 166 8-2 B CE 1883 (for headgear)			

The arc flash symbol is a shield with an explosion and a lightning bolt.

The distance of the face shield to the forehead of the user is 55cm.

Notified body:

ECS GmbH
Obere Bahnstr. 74
73431 Aalen
Notified Body: 1883

Notified body (audit):

DIN CERTCO Gesellschaft
für Konformitätsbewertung
mbH
Alboinstr. 56
12103 Berlin
Notified Body: 0196

General remarks

The electrician's visor can only be used with the head gear of Rudolf Uhlen GmbH.

When approaching the danger zone the face shield has to be flipped down.

The user has to make sure that the electrician's face shield has a sufficient protection class. The maximal expectable arc flash energy has to be determined. This can be done with the DGUV

document BGI 5188.

The operating life of the electrician's face shield depends on the handling at work. The face shield has to be replaced when it shows strong scratches or fractures. PPE made of plastics has to be replaced after 2 years in principle

Warning!

The safety officer should be contacted to ensure an adequate protection at work.

Eye-protection devices against particles with high velocity could transmit the impact energy, if the device is worn together with standard glasses.

If the eye protection device is composed of a number of individual devices – the maximum level of protection depends on the individual device with the lowest protection level.

Notice relating to the mutual compatibility of the marking (s. DIN EN 166 note d, e and f in table 12).

If protection against mechanical impacts with high

velocity in extreme temperatures is needed, the used eye protection device has to be marked with the letter T after the letter for the impact protection, i.e. BT. Otherwise the eye protection device can only be used against impacts with high velocity in room temperature.

Plastic can cause an allergic reaction of the skin of sensitive persons.

Article list

Electrician's face shield
7kA:
GFKKH002-E

User manual
Electrician's visor for head gears for
live-working up to 1000 V



RUDOLF UHLEN GmbH

Herstellung von Arbeitsschutzartikeln

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Trade register no.: HRB 17088 Register court Wuppertal

Aschua

Document no.:
28.05.2022 / R2

Electrician's visor made of PC, 550x200x2,0mm, made completely of plastic

- The visor is used in combination with a head gear.
- According to DIN EN 166 no open metal parts are used.
- The visor is made of Polycarbonate, 2,0mm thick and it has optical class 1.
- The visor complies the special mechanical and thermal demands for work places where where arc flashes of class 2 (7kA) can occur.
- The head gear is adjusted by means of a turning knob. It fits head widths between 50 – 60cm.
- The forehead padding is made of artificial leather and it is replaceable.
- The face shields are attached with an eccentric knob to the forehead guard.
- The forehead guard can be lifted and locked with two screw heads.

Manual

- Initially the face shield is shoved with one of its oval holes on one of the eccentric knobs.

- The eccentric knob is turned backwards and fixes the face shield on one side.
- That followed the face shield is pulled over the forehead guard to the second eccentric knob. Please make sure that the face shield sits in the slots on the upper side of the forehead guard.
- To shove the face shield on the second eccentric knob, the knob should be turned so that it points down vertically. Now the face shield can be shoved on the eccentric knob from below.
- Finally the eccentric knob is turned backwards and the face shield is attached to the headgear.
- The headgear is put on the head and adjusted to the individual head width. Therefore the knob on the adjusting device has to be pushed and with the other hand the ratchet wheel has to be turned until the head gear fits the head.

Storage

Personal protective equipment should be stored in dry rooms. Especially components made of plastics should not be exposed to intense solar radiation.

When not using the face shield, it should be stored in

an UV-resistant container/bag.

The face shields should not be stored in areas with high temperatures or humid conditions.

When the face shields are moved in a vehicle, they should be fixed, so no deformations or chafes can occur.

Cleaning / Disinfection

The universal-visor carriers and the face-shields can be cleaned with water and standard detergents as well as with mild disinfectants. However, the face shields should be dried with compressed air (at best with a lintless cloth) to avoid scratches.

Safety checks

Before using the face shield the user should do a safety check. Damaged or scratched face shields or other damaged parts have to be replaced.

Damages are: cracks, fractures, holes, deep notches but also burned areas, milky or darkened surfaces.

Maintenance/repairs

Maintenance has to be conducted on a regular basis.

To be checked in particular:

- Mobility of the head width adjusting device.

- Screw joint of the forehead guard and the headgear. If necessary the screw need to be tightened.
- Attachment of the face shield to the headgear. Especially the eccentric knobs have to be checked.
- The face shield has to be checked for its transparency and other damages.

Repairs can only be done with the original parts of the manufacturer.

Spare parts

The forehead padding GBKSB001 is washable and replaceable.

Decay time/aging

All used materials are exposed to environmental impacts like UV-radiation, acid rain and various other impacts. Therefore especially the personal protective equipment made of thermoplastic plastics has to be replaced after 2 years the latest.

Technical features

Electricians' visor

- **Face shield**
Polycarbonate 2,0mm
- **Bib**
Nomex 220g/m³

Head gear

- **Forehead guard**
Polypropylen (PP) TV 20
- **Headgear**
Polyethylen (PE)-LD
- **Plastic screws**
Polypropylen (PP) GV 30
- **Forehead padding**

Artificial leather

Marking

The face shield is tested in accordance with DIN EN 166, DIN EN 170 and GS-ET-29 (2019).

Head gear

UHL 166 8-1 B CE 0196

Face shield

2C-1,4 UHL 1 B 8-2-1 CE -0196-

Explanation of the marking:

UHL	= manufacturer Rudolf Uhlen GmbH
166	= EN Norm
2C-1,4	= UV-shade
1	= optical class
B	= mechanical impact with medium energy
8-2	= electric arc class 2 (7kA)
CE	= CE sign
-0196-	= notified body
	= sign for electr. arc

Additional marking according to GS-ET-29

1 = the luminous transmittance $VLT < D65$, which emulates the luminance impression of the human eye (accord. to ISO 10527:2007), is $50\% \leq VLT (D65) < 75\%$.

This product is assigned to Light transmittance class 1 (LT Class 1). Additional lighting is not required under normal working condi-

tions. In any case, check your ability to detect color in the work environment before using this product.

Artificial lighting can interfere with the tint of the face shield and impair colour perception, especially when using fluorescent or LED lamps as illuminants. It must be ensured that all cable codes used at the workplace can be safely distinguished under actual lighting conditions.

Check your colour perception prior to starting work by performing the following steps:

1. Gather a sampling of cable pieces having the same colour coding as the cables used at your workplace.
2. Ensure that you are in a safe location, but with the same lighting (type and intensity) as anticipated at your workplace.
3. Clean the face shield and check it for damage (do not hesitate to replace the face shield if necessary - refer to the User information).
4. Don the face shield as described in the User information.
5. Quickly sort through the bundled cable samples. If you have difficulty distinguishing between the various cable codes or are mistaken in sorting them, then the lighting is insufficient and/or the face shield is too dark. This could cause an accident at work, such as electric fault arcing.



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EU-Baumusterprüfbescheinigung

Inhaber	Rudolf Uhlen GmbH Am Höfgen 13 42781 Haan DEUTSCHLAND
Registernummer	C7368UHL/R0
Produkt	Elektriker-Gesichtsschutz
Typ, Modell	GFKES003, GFKES003-3, GFKES003-5, GFKES003-5LANG, GFKKH002
Prüfgrundlage(n)	DIN EN 166:2002-04 DIN EN 170:2003-01 GS-ET-29:2019-06 AfPS GS 2019:01 PAK
Prüfberichte/ Prüfzeichen	12951-PZA-23, 12952-PZA-23, 12953-PZA-23, 12954-PZA-23, 12955-PZA-23
Kennzeichnung des Produktes	Detaillierte Kennzeichnung siehe Anhang
Gültigkeitszeitraum	2024-10-16 bis 2029-10-15
Konformität	DIN CERTCO bestätigt die Übereinstimmung des Baumusters mit den geltenden grundlegenden Gesundheitsschutz- und Sicherheitsanforderungen nach Anhang II der Verordnung (EU) 2016/425 für persönliche Schutzausrüstung. Die Bewertung beruht auf den vom Hersteller oder vom bevollmächtigten Vertreter eingereichten Prüfmustern, den technischen Unterlagen, sowie dem Prüfbericht des Prüflabors. Eventuell vorhandene Vorgängerversionen dieser EU-Baumusterprüfbescheinigung verlieren hiermit ihre Gültigkeit. Weitere Informationen siehe Anhang.

2024-10-16

Dr. Ina Förster

Benannte Stelle 0196





ANHANG

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Zertifikat	C7368UHL/R0 von 2024-10-16
Herstellerkennzeichen	UHL
Kennzeichnung des Produktes	Elektriker-Gesichtsschutzschild: 2C-1,4 UHL 1 B 8-2-1 CE 0196 Tragkörper für Elektriker-Gesichtsschutz: UHL 166 8-2 B CE 0196 Produkt bzw. austauschbare Bestandteile müssen zusätzlich mit dem Symbol IEC 60417-6353 (2016-02) gekennzeichnet sein.
Produktspezifikationen	Grad der mechanischen Festigkeit: Schutz gegen Teilchen hoher Geschwindigkeit B (120 m/s) Optische Klasse: 1 Schutzstufe: 2C-1,4 Schutz gegen Störlichtbogen: 8 Störlichtbogenklasse: 2 Lichttransmissionsklasse: 1 Elektriker-Gesichtsschutzschild Mittendicke: 2,0 mm Material: PC Farbe: Hellgrau Abmessungen: 550 mm x 200 mm GFKKH002-E: 480 mm x 200 mm Tragkörper für Elektriker-Gesichtsschutz Material: PC, Gummi, PP, Nomex, LD-PE GFKKH002-E: PP, LDPE, PC, Nomex Farbe: Grau/blau/farblos Ausführung: Scheibe mit Stofflatz GFKES003: Standardform GFKES003-3: Breite Ausführung GFKES003-5: Runde Ausführung GFKES003-5LANG: Runde Ausführung mit langem Stofflatz GFKKH002-E: Mit Kopfbandhalterung
Weitere Produktinformationen	Nur für Verwendung mit den Sicherheitshelmen G3501 (3M), INAP PCG (Voss-Helme), BOP Energy 3000 (Schuberth).





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Zertifikat

C7368UHL/R0 von 2024-10-16

Bestimmungen/Pflichten

Diese EU-Baumusterprüfbescheinigung ist Eigentum von DIN CERTCO und kann zurückgezogen werden, wenn die Bedingungen, die zur ihrer Ausstellung geführt haben, nicht mehr erfüllt sind.

Die Informationsbroschüre (Gebrauchsanweisung) zum genannten Augenschutzprodukt muss in den Amtssprachen des Bestimmungslandes verfasst sein und unter anderem folgende Angaben zur notifizierten Stelle enthalten:

DIN CERTCO Gesellschaft für
Konformitätsbewertung mbH
Alboinstraße 56
12103 BERLIN
DEUTSCHLAND
Kennnummer der notifizierten Stelle: 0196

Auf dem Produkt muss, soweit möglich, eine Typen-, Chargen- oder Seriennummer oder ein anderes Kennzeichen zur Identifikation angebracht sein.

Auf dem Produkt muss, soweit möglich, der Name und die Postanschrift des Herstellers oder, sofern dieser nicht im Europäischen Wirtschaftsraum ansässig ist, der Name und die Postanschrift eines im Europäischen Wirtschaftsraum ansässigen bevollmächtigten Vertreters oder Einführers angebracht sein.

Auf dem Produkt und dessen Verpackung muss Monat und Jahr der Herstellung und/oder Monat und Jahr des Verfalls unauslöschlich und eindeutig angebracht sein.

Das Produkt muss mit der Kennnummer der notifizierten Stelle gekennzeichnet werden, welche die Überwachung des Produktes gemäß Anhang VII (Modul C2) oder VIII (Modul D) der Verordnung (EU) 2016/425 durchführt.

Diese EU-Baumusterprüfbescheinigung darf nur in Verbindung mit einem der Konformitätsbewertungsverfahren gemäß der Verordnung (EU) 2016/425 Artikel 19 Buchstabe c verwendet werden.

Jede Änderung am Produkt, den technischen Unterlagen oder dem Qualitätssicherungssystem muss DIN CERTCO schriftlich mitgeteilt werden.

Es gelten die Allgemeinen Geschäftsbedingungen von DIN CERTCO.



EU DECLARATION OF CONFORMITY (2024.R2)

1. PPE: **GFKKH002-E**
2. Manufacturer: **Rudolf Uhlen GmbH
Am Höfgen 13
42781 Haan**
3. This declaration of conformity is issued under the sole responsibility of the manufacturer:
Rudolf Uhlen GmbH.
4. Object of the declaration:
Electricians face shield made with chin guard of class 2 (7kA), attached to headgear with forehead guard
5. The object of the declaration described in point 4 is in conformity with the relevant Union harmonisation legislation: guideline 2001/95/EG and regulation (EU) 2016/425
6. References to the relevant harmonised standards used, including the date of the standard, or references to the other technical specifications, including the date of the specification, in relation to which conformity is declared: EN 166:2001, EN 170:2002 and GS-ET 29:2011-05
7. The notified body DIN CERTCO Gesellschaft für Konformitätsbewertung mbH, Alboinstr. 56, 12103 Berlin (0196) performed the EU type-examination (Module B) and issued the EU type-examination certificate **C7368UHL/R0** ausgestellt.
8. The PPE is subject to the conformity assessment procedure based on internal production control plus supervised product checks at random intervals (Module C2) under surveillance of the notified body DIN CERTCO Gesellschaft für Konformitätsbewertung mbH, Alboinstr. 56, 12103 Berlin (0196).
9. Additional Information:
Signed for and on behalf of:
Rudolf Uhlen GmbH



Haan, October 16, 2024:



Steffen Fiedler
-General Manager-