

Physikalisch-Technische Bundesanstalt

Braunschweig und Berlin



(1) **EC-TYPE-EXAMINATION CERTIFICATE** (Translation)

(2) Equipment and Protective Systems Intended for Use in Potentially Explosive Atmospheres - **Directive 94/9/EC**



(3) EC-type-examination Certificate Number:

PTB 98 ATEX 1117 U

(4) Component: Built-in switch or pushbutton component type GHG 2.. ...R....

(5) Manufacturer: CEAG Sicherheitstechnik GmbH

(6) Address: D-69412 Eberbach

(7) This component and any acceptable variation thereto are specified in the schedule to this certificate and the documents therein referred to.

(8) The Physikalisch-Technische Bundesanstalt, notified body No. 0102 in accordance with Article 9 of the Council Directive 94/9/EC of 23 March 1994, certifies that this component has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment and protective systems intended for use in potentially explosive atmospheres, given in Annex II to the Directive.

The examination and test results are recorded in the confidential report PTB Ex 00-18151.

(9) Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN 50014:1997

EN 50018:1994

EN 50019:1994

EN 50020:1994

(10) The sign "U" placed behind the certificate number indicates that this certificate should not be confounded with certificates issued for equipment or protective systems. This Component Certificate only serves as a basis for the issuing of certificates for equipment or protective systems.

(11) This EC-type-examination Certificate relates only to the design and construction of the specified component in accordance with Directive 94/9/EC. Further requirements of this Directive apply to the manufacture and supply of this component.

(12) The marking of the component shall include the following:

 **II 2 G EEx dei IIC IM 2 EEx dei I**

Zertifizierungsstelle Explosionsschutz

Braunschweig, March 31, 2000

By order


Dr.-Ing. U. Klausmeyer
Regierungsdirektor



sheet 1/3

EC-type-examination Certificates without signature and official stamp shall not be valid. The certificates may be circulated only without alteration. Extracts or alterations are subject to approval by the Physikalisch-Technische Bundesanstalt. In case of dispute, the German text shall prevail.

Physikalisch-Technische Bundesanstalt

Braunschweig und Berlin

(13)

SCHEDULE

(14)

EC-TYPE-EXAMINATION CERTIFICATE PTB 98 ATEX 1117 U

(15)

Description of component

The built-in switch or pushbutton component of type GHG 2 ... R ... serves to switch control, load and motor circuits. The built-in switch component is composed of switch chambers and assembled in pairs to form wafers.

The integrated terminals are used for connection.

Electrical data

Rated insulation voltage	up to	690 V						
Rated voltage U_e	up to	24 V	230 V	400 V	500 V	690 V		
Rated current I_e	max.	6 A	0,4 A	8 A	20 A	6 A	16 A	20 A
related to utilization category		DC-11	DC-11	AC-11	AC-3	AC-11	AC-3	AC-1

In accordance with the relevant provisions, values other than the rated values stated above are permissible, provided the making and breaking capacities are complied with. These values have been specified by the manufacturer, dependent on the mode of operation, utilization category, etc

Rated cross-section max. 6 mm² single-core
2,5 mm² finely stranded

Ambient temperature up to -55 °C to 45 °C

The built-in switch or pushbutton component is designed for a temperature stability of 80 °C and can be used in ranges of temperature class T6.

The rated values are maximum values; the actual electrical values depend on the electrical equipment incorporated. Within the scope of these maximum permissible values and with due regard to the standards applicable, the manufacturer specifies the final rated values dependent on the system conditions, mode of operation, utilization category, etc.

The characteristic values of the intrinsically safe circuits are to be given by the manufacturer on his own responsibility. Further technical details have been specified in the test documents.

If and when required, the built-in switch or pushbutton component is equipped with wafers for operation of circuits of the type of protection intrinsic safety "i".

The composition of the symbol specifying the type of protection depends on the types of protection of the components built in.

sheet 2/3

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Physikalisch-Technische Bundesanstalt

Braunschweig und Berlin

SCHEDULE TO EC-TYPE-EXAMINATION CERTIFICATE PTB 98 ATEX 1117 U

(16) Test report PTB Ex 00-18151

(17) Special conditions for safe use

none;

Instructions for manufacture and operation

The built-in switch or pushbutton component is to be installed in an enclosure which complies with the requirements of a recognized type of protection according to EN 50 014, section 1.2.

If the built-in switch or pushbutton component is installed in an enclosure of the type of protection increased safety "e" according to EN 50 019, the creepage distances and clearances according to section 4.3, section 4.4 and Table 1 must be complied with.

In the case of a combination with circuits of the type of protection intrinsic safety "i", the component must be installed in such a way that the creepage distances and clearances between intrinsically safe and non-intrinsically safe circuits, which are required by EN 50020, are complied with.

If the distances required according to EN 50 020 for connection facilities are not ensured by the installation, cables of increased safety "e" quality or fail-safe cables are to be used.

If more than one intrinsically safe circuit is used, the rules for interconnection must be observed.

The built-in switch component may be used in both group I and II, as the requirements of the standard are identical in this case.

This EC-type-examination Certificate and all future supplements to it are also considered to be supplements to Component Certificate PTB No. Ex-86.B.1089 U.

(18) Essential health and safety requirements

The tests carried out and their positive results show that the built-in switch or pushbutton component meets the requirements of Directive 94/9/EC and of the standards stated on the cover sheet.

Zertifizierungsstelle Explosionsschutz

By order:


Dr.-Ing. U. Klausmeyer
Regierungsdirektor



Braunschweig, March 31, 2000

sheet 3/3

EC-type-examination Certificates without signature and official stamp shall not be valid. The certificates may be circulated only without alteration. Extracts or alterations are subject to approval by the Physikalisch-Technische Bundesanstalt. In case of dispute, the German text shall prevail.

Physikalisch-Technische Bundesanstalt • Postfach 33 45 • 38023 Braunschweig

Cooper-Crouse Hinds GmbH
z. Hd. Frau Frankhauser

Neuer Weg Nord 49
69412 Eberbach

Ihr Zeichen:
Ihre Nachricht vom: 28.01.2008
Unser Zeichen: 3.5-2231-13/08-Ko
Unsere Nachricht vom:

Bearbeitet von: Ruth Koch
Telefondurchwahl: +49 (0) 531-592-3501
Telefaxdurchwahl: +49 (0) 531-592-3505
E-Mail: Ruth.koch@ptb.de

Datum: 30.05.2008


Normengenerationsänderung nach EN 60079-0 ff
Change of the standard generation to EN 60079-0 ff
Einbauschalter bzw. -taster Typ GHG 2.. ...R....
Built-in switch switch or pushbutton component type GHG 2.. ...R....

PTB 98 ATEX 1117 U

Sehr geehrte Frau Frankhauser,
Dear Mrs. Frankhauser,

die Selbsterklärung zu den o.g. Komponenten auf Übereinstimmung mit den vorgenannten Normen hat die PTB zur Kenntnis genommen und den zugehörigen Prüfungsunterlagen beigefügt. Es bestehen keine sicherheitstechnischen Bedenken, die o.g. Komponenten mit folgenden Kennzeichnungen zu versehen:


 II 2G Ex de [ia] IIC


 I M2 Ex de [ia] I

Nach Rücksprache mit dem Leiter der Zertifizierungsstelle wird die Kennzeichnung hinsichtlich der eigensicheren Stromkreise um die eckigen Klammern erweitert, da es sich nicht um ein komplett eigensicheres Gerät sondern um ein zugehöriges Betriebsmittel gemäß EN 60079-11 handelt.

Wir bitten Sie, diese Änderungen bei zukünftigen Ergänzungen mit aufzunehmen.

Your statement relating the above-named components concerning the conformity with the aforementioned standards was acknowledged by PTB and added to the related test documentation. There are no safety-related objections from PTB to mark the above mentioned components as follows:

 II 2G Ex de [ia] IIC

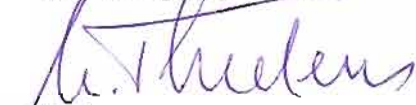
 I M2 Ex de [ia] I

After consultation with the head of the certification body the marking is extended by brackets concerning the intrinsically safe circuits, since the equipment is not a completely intrinsically safe apparatus but an associated apparatus according to EN 60079-11.

We would like to ask you to include this change into the next supplement.

Mit freundlichen Grüßen / Best regards

Im Auftrag / By order



Dr.-Ing. Martin Thedens
Oberregierungsrat

Physikalisch-Technische Bundesanstalt

Braunschweig und Berlin



(1) **EC-TYPE-EXAMINATION CERTIFICATE** (Translation)

(2) Equipment and Protective Systems Intended for Use in Potentially Explosive Atmospheres - **Directive 94/9/EC**



(3) EC-type-examination Certificate Number:

PTB 99 ATEX 1031 U

(4) Component: Built-in switch type GHG 263 R

(5) Manufacturer: CEAG Sicherheitstechnik GmbH

(6) Address: D-69412 Eberbach

(7) This component and any acceptable variation thereto are specified in the schedule to this certificate and the documents therein referred to.

(8) The Physikalisch-Technische Bundesanstalt, notified body No. 0102 in accordance with Article 9 of the Council Directive 94/9/EC of 23 March 1994, certifies that this component has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment and protective systems intended for use in potentially explosive atmospheres, given in Annex II to the Directive.

The examination and test results are recorded in the confidential report PTB Ex 99-18166.

(9) Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN 50014:1997

EN 50018:1994

EN 50019:1994

(10) The sign "U" placed behind the certificate number indicates that this certificate should not be confounded with certificates issued for equipment or protective systems. This Component Certificate only serves as a basis for the issuing of certificates for equipment or protective systems.

(11) This EC-type-examination Certificate relates only to the design and construction of the specified component in accordance with Directive 94/9/EC. Further requirements of this Directive apply to the manufacture and supply of this component.

(12) The marking of the component shall include the following:

Ex II 2 G EEx de ia/ib IIC I M 2 EEx de ia/ib I

Zertifizierungsstelle Explosionsschutz

Braunschweig, November 25, 1999

By order:

Dr.-Ing. U. Klausmeyer
Regierungsdirektor



sheet 1/4

EC-type-examination Certificates without signature and official stamp shall not be valid. The certificates may be circulated only without alteration. Extracts or alterations are subject to approval by the Physikalisch-Technische Bundesanstalt. In case of dispute, the German text shall prevail.

(13)

SCHEDULE

(14)

EC-TYPE-EXAMINATION CERTIFICATE PTB 99 ATEX 1031 U

(15) Description of component

The built-in switch of type 263 R consists of flameproof single compartments put together in pairs. It serves for switching load current circuits and motor current circuits. The built-in switch may optionally be combined with smaller switching compartments as additional auxiliary switches.

If necessary, switch levels (auxiliary switches) with appropriate marking are also used for switching circuits of the type of protection intrinsic safety "i" covered by a separate test certificate.

Technical data

Load interrupter switch

Rated insulation voltage	up to		690 V	
Rated operating voltage	up to	690 V	690 V	500 V
Rated current I_e	max.	40 A	32 A	40 A
Utilization category		AC-1	AC-3	AC-3

Auxiliary switch

Rated insulation voltage	up to		500 V	
Rated operating voltage	up to	500 V	230 V	500 V
Rated current I_e	max.	16 A	8 A	6 A
Utilization category		AC-3	AC-11	AC-11

Rated operating voltage	up to	24 V	110 V	220 V
Rated current I_e	max.	6 A	0.06 A	0.04 A
Utilization category		DC-11	DC-11	DC-11

Rated values differing from those stated above are permissible provided the making and breaking capacity as laid down in the relevant regulations is complied with and such values have been specified by the manufacturer depending on operating mode, utilization category, etc.

Terminals of intrinsically safe circuits only for connection to certified intrinsically safe circuits. The internal inductances and capacitances are negligibly small.

Physikalisch-Technische Bundesanstalt

Braunschweig und Berlin

SCHEDULE TO EC-TYPE-EXAMINATION CERTIFICATE PTB 99 ATEX 1031 U

The intrinsically safe circuits are electrically isolated from the non-intrinsically safe circuits up to a sum of the peak voltage values of 1000 V.

The built-in switch has been designed for thermal stability of 80 °C.

Rated conductor area

main terminals	max.	2 x 10 mm ² finely stranded, 2 x 16 mm ² stranded
auxiliary terminals	max.	2.5 mm ² finely stranded

The composition of the symbols identifying the type of protection depends on the types of protection of the design used in each particular case.

(16) Test report PTB Ex 99-18166, description (6 sheets), annex to description (1 sheet), 6 drawings

(17) Special conditions for safe use

The built-in switch is to be fitted into an enclosure meeting the requirements of a recognized type of protection in compliance with EN 50014, section 1.2.

If the built-in switch is fitted into an enclosure of the type of protection increased safety "e" according to EN 50019, the creepage distances and clearances in accordance with section 4.3, section 44 and Table 1 must be complied with.

Installation of the built-in switches into the enclosure must be such that the separation distances, creepage distances and clearances between intrinsically safe and non-intrinsically safe circuits are complied with.

If the separation requirements for the connection facilities according to EN 50020 are not met by installation, either lines of the quality increased safety "e" must be used or the lines must be fixed in such a way that the fail-safe condition is ensured by mechanical means.

If these separation requirements are not met, on-site wiring is permissible only if there is no explosion risk along all lines.

When more than a single intrinsically safe circuit is connected, the rules for interconnection must be observed.

The component may be used in both, group I and II, as in this case the requirements of the standard are identical.

sheet 3/4

Physikalisch-Technische Bundesanstalt

Braunschweig und Berlin

SCHEDULE TO EC-TYPE-EXAMINATION CERTIFICATE PTB 99 ATEX 1031 U

(18) Essential health and safety requirements

The tests carried out and their positive results show that the built-in switch meets the requirements of Directive 94/9/EC and of the standards specified on the cover sheet.

Zertifizierungsstelle Explosionsschutz

Braunschweig, November 25, 1999

By order:



Dr.-Ing. U. Klausmeyer
Regierungsdirektor



Physikalisch-Technische Bundesanstalt • Postfach 33 45 • 38023 Braunschweig

Cooper-Crouse Hinds GmbH
z. Hd. Frau Frankhauser

Neuer Weg Nord 49
69412 Eberbach

Ihr Zeichen:
Ihre Nachricht vom: 28.01.2008
Unser Zeichen: 3.5-2231-11/08-Ko
Unsere Nachricht vom:

Bearbeitet von: Ruth Koch
Telefondurchwahl: +49 (0) 531-592-3501
Telefaxdurchwahl: +49 (0) 531-592-3505
E-Mail: Ruth.koch@ptb.de

Datum: 30.05.2008

Normengenerationsänderung nach EN 60079-0 ff
Change of the standard generation to EN 60079-0 ff
Einbauschalter Typ GHG 263 R....
Built-in switch type GHG 263 R....

PTB 99 ATEX 1031 U

Sehr geehrte Frau Frankhauser,
Dear Mrs. Frankhauser,

die Selbsterklärung zu den o.g. Komponenten auf Übereinstimmung mit den vorgenannten Normen hat die PTB zur Kenntnis genommen und den zugehörigen Prüfungsunterlagen beigefügt. Es bestehen keine sicherheitstechnischen Bedenken, die o.g. Komponenten mit folgenden Kennzeichnungen zu versehen:

 II 2G Ex de [ia/ib] IIC

 I M2 Ex de [ia/ib] I

Nach Rücksprache mit dem Leiter der Zertifizierungsstelle wird die Kennzeichnung hinsichtlich der eigensicheren Stromkreise um die eckigen Klammern erweitert, da es sich nicht um ein komplett eigensicheres Gerät sondern um ein zugehöriges Betriebsmittel gemäß EN 60079-11 handelt.

Wir bitten Sie, diese Änderungen bei zukünftigen Ergänzungen mit aufzunehmen.

Your statement relating the above-named components concerning the conformity with the aforementioned standards was acknowledged by PTB and added to the related test documentation. There are no safety-related objections from PTB to mark the above mentioned components as follows:

⊕ Ex II 2G Ex de [ia/ib] IIC

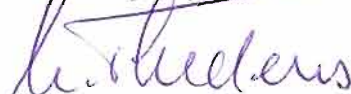
⊕ Ex I M2 Ex de [ia/ib] I

After consultation with the head of the certification body the marking is extended by brackets concerning the intrinsically safe circuits, since the equipment is not a completely intrinsically safe apparatus but an associated apparatus according to EN 60079-11.

We would like to ask you to include this change into the next supplement.

Mit freundlichen Grüßen / Best regards

Im Auftrag / By order



Dr.-Ing. Martin Thedens
Oberregierungsrat



(1) EC-TYPE-EXAMINATION CERTIFICATE (Translation)

(2) Equipment and Protective Systems Intended for Use in Potentially Explosive Atmospheres - **Directive 94/9/EC**



(3) EC-type-examination Certificate Number:

PTB 00 ATEX 1069 U

(4) Component: Flush-mounting switch, type GHG 264R....

(5) Manufacturer: CEAG Sicherheitstechnik GmbH

(6) Address: D-69412 Eberbach

(7) This component and any acceptable variation thereto are specified in the schedule to this certificate and the documents therein referred to.

(8) The Physikalisch-Technische Bundesanstalt, notified body No. 0102 in accordance with Article 9 of the Council Directive 94/9/EC of 23 March 1994, certifies that this component has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment and protective systems intended for use in potentially explosive atmospheres, given in Annex II to the Directive.

The examination and test results are recorded in the confidential report PTB Ex 00-19119.

(9) Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN 50014:1997

EN 50018:1994

EN 50019:1994

EN 50020:1994

(10) The sign "U" placed behind the certificate number indicates that this certificate should not be confounded with certificates issued for equipment or protective systems. This Component Certificate only serves as a basis for the issuing of certificates for equipment or protective systems.

(11) This EC-type-examination Certificate relates only to the design and construction of the specified component in accordance with Directive 94/9/EC. Further requirements of this Directive apply to the manufacture and supply of this component.

(12) The marking of the component shall include the following:

II 2 G EExdeia/b IIC 1 M 2 EEx deia/b I

Zertifizierungsstelle Explosionschutz
By order:

Braunschweig, September 12, 2000

Dr.-Ing. U. Johannsmeier
Regierungsdirektor



sheet 1/4

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(13) **SCHEDULE**

(14) **EC TYPE EXAMINATION CERTIFICATE PTB 00 ATEX 1069 U**

(15) Description of component

The flush-mounting switch of type 26. R..... comprises flameproof compartments arranged in pairs. Auxiliary switches for control and signal circuits may in addition be combined as required.

If required, wafers (auxiliary switches) with the required identification will also be used for circuits of type of protection Intrinsic Safety "i", provided a separate examination certificate has been issued.

Technical data

Load interrupter switch

Rated insulation voltage	up to				750 V
Rated operating voltage	up to	690 V	690 V	550 V	
Rated current I _e	max.	80 A	63 A	80 A	
Utilization category		AC-1	AC-3	AC-3	

Auxiliary switch

Rated voltage U _e	up to	24 V	230 V	400 V	500 V	690 V
Rated current I _e	max.	6 A	0.4 A	8 A	20 A	6 A 16 A 20 A
related to utilization category		DC-11	DC-11	AC-11	AC-3	AC-11 AC-3 AC-1

Provided the making and breaking capacity complies with the relevant regulations, rated values other than those specified above are permissible and will be defined by the manufacturer on the basis of the operating mode, utilization category, etc.

The rated values are maximum values, the actual electrical values will be subject to the electrical apparatus actually installed. Within these limits, the manufacturer will, in compliance with the relevant standards and subject to the mains conditions, operating mode, utilization category, etc., define the final rated values.

It will be the manufacturer's responsibility to specify the characteristic values of the intrinsically safe circuits. Any other technical details are fixed in the examination documents.

If required, the flush-mounting switch or pushbutton will be provided with wafers for the operation of circuits of type of protection Intrinsic Safety "i".

The flush-mounting switch is designed for 80° C temperature resistance and can be used within the scope of temperature class T6.

Rated wire range

Main terminals	max.	16 mm ² fine-strand, 25 mm ² stranded
with cable lug	max.	25 mm ² fine-strand, 35 mm ² stranded
Aux. terminals	max.	2.5 mm ² fine-strand

The composition of the type of protection symbol is subject to the types of protection of the design used from case to case.

(16) Test report PTB Ex 00-19119

(17) Special conditions for safe use

none

Notes for production and operation

The flush-mounting switch shall be accommodated in a housing that meets the specifications of an approved type of protection in accordance with EN 50014, section 1.2.

When fitting the flush-mounting switch in a housing designed to type of protection Increased Safety "e" in accordance with EN 50019, the clearance and creepage distances according to section 4.3, section 4.4 and table 1 have to be complied with.

When combined with circuits of type of protection Intrinsic Safety "i", the switch has to be installed in such a way that the clearance and creepage distances between intrinsically safe and non-intrinsically safe circuits according to EN 50020 are met.

If the distance requirements for the connectors as specified in EN 50020 cannot be guaranteed with the installation, cables which meet the quality criteria Increased Safety "e" shall be used, or the cables shall be of the fail-safe type.

When using more than one intrinsically safe circuit, the regulations for interconnection shall be taken into consideration.

The component can be used both in groups I and II, because in this case the requirements of the standard are identical.

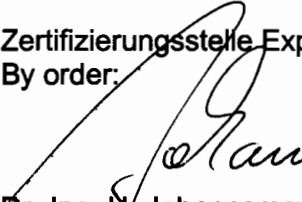
(18) Essential health and safety requirements

The tests carried out and the positive results show that the flush-mounting switch meets the requirements of directive 94/9/EC as well as those of the standards quoted on the cover sheet.

Zertifizierungsstelle Explosionsschutz

By order:

Braunschweig, September 12, 2000


Dr.-Ing. U. Johannsmeyer
Regierungsdirektor



Physikalisch-Technische Bundesanstalt • Postfach 33 45 • 38023 Braunschweig

Cooper-Crouse Hinds GmbH
z. Hd. Frau Frankhauser

Neuer Weg Nord 49
69412 Eberbach

Ihr Zeichen:
Ihre Nachricht vom: 28.01.2008
Unser Zeichen: 3.5-2231-12/08-Ko
Unsere Nachricht vom:

Bearbeitet von: Ruth Koch
Telefondurchwahl: +49 (0) 531-592-3501
Telefaxdurchwahl: +49 (0) 531-592-3505
E-Mail: Ruth.koch@ptb.de


Datum: 30.05.2008

Normengenerationsänderung nach EN 60079-0 ff
Change of the standard generation to EN 60079-0 ff
Einbauschalter Typ GHG 264R....
Flush-mounting switch type GHG 264R....

PTB 00 ATEX 1069 U

Sehr geehrte Frau Frankhauser,
Dear Mrs. Frankhauser,

die Selbsterklärung zu den o.g. Komponenten auf Übereinstimmung mit den vorgenannten Normen hat die PTB zur Kenntnis genommen und den zugehörigen Prüfungsunterlagen beigefügt. Es bestehen keine sicherheitstechnischen Bedenken, die o.g. Komponenten mit folgenden Kennzeichnungen zu versehen:

 II 2G Ex de [ia/ib] IIC

 I M2 Ex de [ia/ib] I


Nach Rücksprache mit dem Leiter der Zertifizierungsstelle wird die Kennzeichnung hinsichtlich der eigensicheren Stromkreise um die eckigen Klammern erweitert, da es sich nicht um ein komplett eigensicheres Gerät sondern um ein zugehöriges Betriebsmittel gemäß EN 60079-11 handelt.

Wir bitten Sie, diese Änderungen bei zukünftigen Ergänzungen mit aufzunehmen.

Achtung! Neue Bankverbindung:

Your statement relating the above-named components concerning the conformity with the aforementioned standards was acknowledged by PTB and added to the related test documentation. There are no safety-related objections from PTB to mark the above mentioned components as follows:

 II 2G Ex de [ia/ib] IIC

 I M2 Ex de [ia/ib] I

After consultation with the head of the certification body the marking is extended by brackets concerning the intrinsically safe circuits, since the equipment is not a completely intrinsically safe apparatus but an associated apparatus according to EN 60079-11.

We would like to ask you to include this change into the next supplement.

Mit freundlichen Grüßen / Best regards

Im Auftrag / By order



Dr.-Ing. Martin Thedens
Oberregierungsrat



(1) EC-TYPE-EXAMINATION CERTIFICATE (Translation)

(2) Equipment and Protective Systems Intended for Use in Potentially Explosive Atmospheres - **Directive 94/9/EC**



(3) EC-type-examination Certificate Number:

PTB 99 ATEX 1062 U

(4) Component: Flush-mounting switch, type GHG 26. R....

(5) Manufacturer: CEAG Sicherheitstechnik GmbH

(6) Address: D-69412 Eberbach

(7) This component and any acceptable variation thereto are specified in the schedule to this certificate and the documents therein referred to.

(8) The Physikalisch-Technische Bundesanstalt, notified body No. 0102 in accordance with Article 9 of the Council Directive 94/9/EC of 23 March 1994, certifies that this component has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment and protective systems intended for use in potentially explosive atmospheres, given in Annex II to the Directive.

The examination and test results are recorded in the confidential report PTB Ex 00-19144.

(9) Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN 50014:1997

EN 50018:1994

EN 50019:1994

(10) The sign "U" placed behind the certificate number indicates that this certificate should not be confounded with certificates issued for equipment or protective systems. This Component Certificate only serves as a basis for the issuing of certificates for equipment or protective systems.

(11) This EC-type-examination Certificate relates only to the design and construction of the specified component in accordance with Directive 94/9/EC. Further requirements of this Directive apply to the manufacture and supply of this component.

(12) The marking of the component shall include the following:

 **II G 2 EEx de IIC IM 2 EEx de I**

Zertifizierungsstelle Explosionsschutz
By order:

Braunschweig, September 12, 2000

Dr.-Ing. U. Johannsmeyer
Regierungsdirektor



sheet 1/3

EC-type-examination Certificates without signature and official stamp shall not be valid. The certificates may be circulated only without alteration. Extracts or alterations are subject to approval by the Physikalisch-Technische Bundesanstalt. In case of dispute, the German text shall prevail.

SCHEDULE

(13)

(14) **EC-TYPE-EXAMINATION CERTIFICATE PTB 99 ATEX 1062 U**

(15) Description of component

The flush-mounting switch of type 26. R..... comprises flameproof compartments arranged in pairs.

Technical data

Load interrupter switch

Rated insulation voltage	up to	750 V			
Rated operating voltage	up to	690 V	690 V	500 V	400 V
Rated current I_e	max.	180 A	125 A	150 A	180 A
Utilization category		AC-1	AC-3	AC-3	AC-3

Provided the making and breaking capacity complies with the relevant regulations, rated values other than those specified above are permissible and will be defined by the manufacturer on the basis of the operating mode, utilization category, etc.

Rated wire range

Main terminals with cable lug	max.	50 mm ² fine-strand for 125 A
		70 mm ² fine-strand for 160 A
		120 mm ² fine-strand for 180 A

The flush-mounting switch is designed for 80° C temperature resistance and can be used within the scope of temperature class T6.

(16) Test report PTB Ex 00-19144

(17) Special conditions for safe use

None

Notes for production and operation

The flush-mounting switch shall be accommodated in a housing that meets the specifications of an approved type of protection in accordance with EN 50014, section 1.2.

When fitting the flush-mounting switch in a housing designed to type of protection Increased Safety "e" in accordance with EN 50019, the air clearance and creepage distances according to section 4.3, section 4.4 and table 1 have to be complied with.

The component can be used both in groups I and II, because in this case the requirements of the standard are identical.

The present EC type examination certificate as well as any of its future supplements shall be regarded as supplements of component certificate PTB No. Ex-86.B.1048 U.

(18) Essential health and safety requirements

The tests carried out and the positive results show that the flush-mounting switch meets the requirements of directive 94/9/EC as well as those of the standards quoted on the cover sheet.

Zertifizierungsstelle Explosionsschutz
By order:

Braunschweig, September 12, 2000


Dr.-Ing. U. Johannsmeyer
Regierungsdirektor



Physikalisch-Technische Bundesanstalt • Postfach 33 45 • 38023 Braunschweig

Cooper-Crouse Hinds GmbH
z. Hd. Frau Frankhauser

Neuer Weg Nord 49
69412 Eberbach

Ihr Zeichen:
Ihre Nachricht vom: 11.01.2008
Unser Zeichen: 3.5-2231-05/08-Ko
Unsere Nachricht vom:

Bearbeitet von: Ruth Koch
Telefondurchwahl: +49 (0) 531-592-3501
Telefaxdurchwahl: +49 (0) 531-592-3505
E-Mail: Ruth.koch@ptb.de

Datum: 06.05.2008

Normengenerationsänderung nach EN 60079-0 ff
Change of the standard generation to EN 60079-0 ff
Einbauschalter Typ GHG 26.R...
Flush-mounting switch type GHG 26.R...

PTB 99 ATEX 1062 U

Sehr geehrte Frau Frankhauser,
Dear Mrs. Frankhauser,

die Selbsterklärung zu o.g. Komponente auf Übereinstimmung mit den vorgenannten Normen hat die PTB zur Kenntnis genommen und den zugehörigen Prüfungsunterlagen beigefügt.
Es bestehen keine sicherheitstechnischen Bedenken, die o.g. Komponente mit folgenden Kennzeichnungen zu versehen:

 II 2G Ex de IIC

 I M2 Ex de I

Wir bitten Sie, diese Änderungen bei zukünftigen Ergänzungen mit aufzunehmen.

Achtung! Neue Bankverbindung:

Your statement relating the above-named component concerning the conformity with the aforementioned standards was acknowledged by PTB and added to the related test documentation. There are no safety-related objections from PTB to mark the above mentioned component as follows:

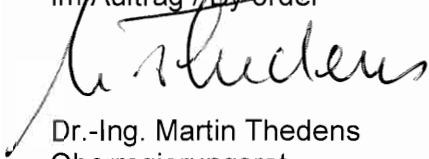
 II 2G Ex de IIC

 I M2 Ex de I

We would like to ask you to include this change into the next supplement.

Mit freundlichen Grüßen / Best regards

Im Auftrag / By order



Dr.-Ing. Martin Thedens
Oberregierungsrat