



(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 01 ATEX 1105

- (4) Equipment: Control and indicator module, type 8040/...-.../...
- (5) Manufacturer: R. STAHL Schaltgeräte GmbH
- (6) Address: Am Bahnhof 30, D-74638 Waldenburg (Württ.), Germany
- (7) This equipment 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 equipment 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 01-11181.


- (9) Compliance with the Essential Health and Safety Requirements has been assured by compliance with:
- | | | |
|--------------------------------|----------------------|----------------------|
| EN 50014:1997 + A1 + A2 | EN 50017:1998 | EN 50018:2000 |
| EN 50019:2000 | EN 50020:1994 | EN 50028:1987 |
- (10) If the sign "X" is placed after the certificate number, it indicates that the equipment is subject to special conditions for safe use specified in the schedule to this certificate.
- (11) This EC-type-examination Certificate relates only to the design and construction of the specified equipment in accordance with Directive 94/9/EC. Further requirements of this Directive apply to the manufacture and supply of this equipment.
- (12) The marking of the equipment shall include the following:

 **II 2 G EEx edqm ia/ib [ia/ib] II, IIA, IIB, IIC, T6, T5 or T4**

Zertifizierungsstelle Explosionsschutz

Braunschweig, October 1, 2001

By order:


Dipl.-Phys. U. Völkel



SCHEDULE

(13)

(14)

EC-TYPE-EXAMINATION CERTIFICATE PTB 01 ATEX 1105

(15) Description of equipment

The control and indicator module, type 8040/...-.../..., consists of one or several plastic enclosures designed to type of protection Increased Safety "e".

The enclosures can accommodate control and indicator components as well as terminals for intrinsically safe and non-intrinsically safe circuits. The area designated for intrinsically safe circuits will be marked, e.g. by means of a light-blue colour.

Connection is by means of explosion-proof cable entries.

All the installed and attached elements will be tested and certified under separate examination certificates.

Technical data

Rated voltage*	..... up to	690	V
Rated current*	..... max.	23	A
Power input for indicator lights	..... max.	1.5	W
Rated cross section, installations	..... max.	6	mm ²
Rated cross section, terminal block / connecting terminals	..... max.	4	mm ²

*) depending on type of terminal and explosion-proof components used

Ambient temperature range: -50 °C to +60 °C

The ratings specified are maximum values, actual values will be subject to the electrical equipment installed from case to case. Depending on the system conditions, the mode of operation, the utilisation category, etc., the manufacturer will define the definitive ratings which will be within the range of these limiting values and will comply with the relevant standards.

The actual ambient temperature range will depend on the admissible temperature range of the components used.

The composition of the protection symbol will be based on the types of protection of components actually used.

(16) Test report PTB Ex 01-11181

(17) Special conditions for safe use

None

Notes for installation and use

Installation of equipment designed to type of protection Intrinsic Safety "i" has to proceed in such a way that the clearance and creepage distances between intrinsically safe and non-intrinsically safe circuits as set forth in EN 60079-14 are met.

If the clearance requirements for the connectors as specified in EN 50020 cannot be safeguarded with the system installation and layout, wiring that meets the quality criteria Increased Safety "e" shall be used, or the wiring shall be of the fail-safe type.

When using more than one intrinsically safe circuit, the regulations for interconnection shall duly be observed.


The EC type-examination certificate as well as any future supplements thereto shall at the same time be regarded as supplements to Certificate of Conformity PTB No. Ex-93.C.1036.

(18) Essential health and safety requirements

The tests and the favourable results these have produced reveal that the control and indicator module, type 8040/...-.../... , meets the requirements of directive 94/9/EC as well as those of the standards quoted on the cover sheet.

Zertifizierungsstelle Explosionsschutz

By order:


Dipl.-Phys. U. Völkel



Braunschweig, October 1, 2001

1st SUPPLEMENT
according to Directive 94/9/EC Annex III.6
to EC-TYPE-EXAMINATION CERTIFICATE PTB 01 ATEX 1105
(Translation)

Equipment: Control and indicator module, type 8040/...-.../...

Marking:  **EEx edqm ia/ib [ia/ib] II, IIA, IIB, IIC, T6, T5 or T4**

Manufacturer: R. STAHL Schaltgeräte GmbH

Address: Am Bahnhof 30, 74638 Waldenburg (Württ.), Germany


Description of supplements and modifications

The control and indicator module, type 8040/...-.../..., is complemented in the following respects:

- 1) The control and indicator module may also be employed in areas in which a potentially explosive atmosphere as a mixture of dust and air can occasionally form.
- 2) The control and indicator module has been re-tested in compliance with Standards EN 60079-0 and EN 60079-7.

The marking will thus change to:

 **II 2 G Ex edqm ia/ib [ia/ib] II, IIA, IIB, IIC, T6, T5 or T4**

 **II 2 D Ex tD A21 IP 65 T 80 °C, T 95 °C, T 130 °C**

- 3) The control and indicator module may also be combined with other – separately certified – items of equipment.

Applied standards

EN 60079-0:2004

EN 60079-7:2003

EN 61241-0:200X

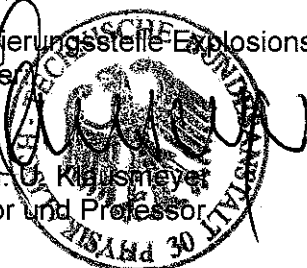
EN 61241-1:2004

Test report: PTB Ex 06-16093

Zertifizierungsstelle Explosionsschutz

By order

Dr.-Ing. G. Klugsmeyer
Direktor und Professor



Braunschweig, June 1, 2006

Sheet 1/1

EG-Konformitätserklärung
EC-Declaration Of Conformity
CE-Déclaration De Conformité



PTB 01 ATEX 1105

Wir (we; nous)

R. STAHL Schaltgeräte GmbH, Am Bahnhof 30, D-74638 Waldenburg

erklären in alleiniger Verantwortung, daß das Produkt

hereby declare in our sole responsibility, that the product

déclarons de notre seule responsabilité, que le produit

Befehls- und Meldegerät

Typ 8040/...-.../...

Control and signal station

Type 8040/...-.../...

Postes de commande et de signalisation

Type 8040/...-.../...

auf das sich diese Erklärung bezieht, mit der/den folgenden Norm(en) oder normativen Dokumenten übereinstimmt

which is the subject of this declaration, is in conformity with the following standard(s)

or normative documents

auquel cette déclaration se rapporte, est conforme aux norme (s) ou aux documents normatifs suivants

Bestimmungen der Richtlinie

terms of the directive

prescription de la directive

Titel und/oder Nr. sowie Ausgabedatum der Norm

title and/or No. and date of issue of the standard

titre et/ou No. ainsi que date d'émission des normes

94/9/EG: Geräte und Schutzsysteme zur bestimmungsgemäßen Verwendung in explosionsgefährdeten Bereichen

94/9/EC: Equipment and protective systems intended for use in potentially explosive atmospheres

94/9/CE: Appareils et systèmes de protection destinés à être utilisés en atmosphères explosibles

EN 50014:1997 + A1 + A2

EN 50019:2000

EN 50017:1998

EN 50020:1994

EN 50018:2000

EN 50028:1987

89/336/EWG:

Elektromagnetische Verträglichkeit

89/336/EEC:

Electromagnetic compatibility

89/336/CEE:

Compatibilité électromagnétique


EN 60947-1:1999

EN 60439-1:1999

Waldenburg, 14.02.2002

Ort und Datum
Place and date
lieu et date


Leiter Marketing und Entwicklung
Head of Marketing and Development
Directeur Marketing et Développement


Leiter Qualitätsmanagement
Head of quality management dept.
Chef du dept. assurance de qualité