



(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 07 ATEX 1024



(4) Equipment: Controller type EXB - N34 CN

(5) Manufacturer: KILLARK, Div of Hubbell Inc. (Delaware)

(6) Address: 3940 Martin Luther King Dr., St. Louis, MO 63113 USA

(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 07-16407.

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

EN 60079-0:2006 EN 60079-1:2004 EN 61241-0:2006 EN 61241-1:2004

(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.

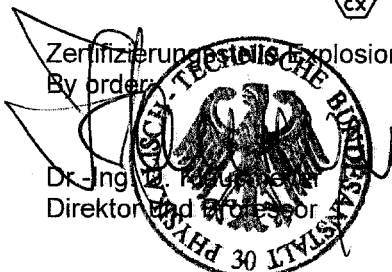
(12) The marking of the equipment shall include the following:



II 2 G Ex d IIB + H2 T6 or T5



II 2 D Ex tD A21 IP66 80°C or 95°C



Braunschweig, September 18, 2007

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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 07 ATEX 1024**

(15) Description of equipment

The controller EXB - N34 CN consists alternatively of one or several housings of the type of protection Flameproof Enclosure "d" and "td", which contain electrical apparatus. Connection is through – separately certified - direct flame-proof cable entries or conduits. Technical details for it are specified in the operating instructions.

Electrical data

Rated voltage max. 690 V

Conductor size AWG max. 500 mm²

Ambient temperature -20 °C to +60 °C

Protection against foreign bodies

and ingress of liquids: IP 66 according to EN 60529

Maximum power loss for use in temperature class

Housing Type	T6	T5
Housing type EXB-664	95 W	135 W
Housing type EXB-886	130 W	185 W
Housing type EXB-8104	130 W	185 W
Housing type EXB-8106	155 W	225 W
Housing type EXB-8126	185 W	270 W
Housing type EXB-8128	205 W	310 W
Housing type EXB-10106	195 W	280 W
Housing type EXB-10108	210 W	310 W
Housing type EXB-10146	235 W	335 W
Housing type EXB-10148	255 W	380 W
Housing type EXB-12126	205 W	310 W
Housing type EXB-12128	240 W	350 W
Housing type EXB-12186	280 W	385 W
Housing type EXB-12188	315 W	465 W
Housing type EXB-12246	350 W	500 W
Housing type EXB-12248	385 W	565 W
Housing type EXB-122412	495 W	740 W
Housing type EXB-12368	550 W	795 W
Housing type EXB-123610	590 W	875 W
Housing type EXB-14146	280 W	385 W
Housing type EXB-14148	315 W	465 W
Housing type EXB-16166	315 W	460 W
Housing type EXB-16168	340 W	500 W
Housing type EXB-16248	495 W	735 W

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Housing type EXB-162410	530 W	785 W
Housing type EXB-18186	400 W	585 W
Housing type EXB-18188	440 W	650 W
Housing type EXB-18248	495 W	740 W
Housing type EXB-182410	535 W	790 W
Housing type EXB-18368	685 W	1020 W
Housing type EXB-183610	725 W	1085 W
Housing type EXB-203611	870 W	1300 W
Housing type EXB-24248	610 W	910 W
Housing type EXB-242410	650 W	975 W
Housing type EXB-24308	650 W	975 W
Housing type EXB-24368	850 W	1265 W
Housing type EXB-243610	900 W	1350 W

Rated values are maximum values, the actual electrical values are determined by mounted electrical apparatus. Within these limiting values complying with the appropriate standards the manufacturer specifies the final limiting values dependent on power supply specifications, operating mode, utilization category, etc.

(16) Report PTB Ex 07-16407

(17) Special conditions for safe use

None;

Notes for manufacturing and operation

The controller may also be connected by means of suitable cable entries or conduit systems which meet the requirements of EN 60079-1:2004, sections 13.1 and 13.2, and for which a separate examination certificate has been issued.

Openings not used shall be closed in compliance with EN 60079-1:2004, section 11.

A Repair and overhaul of the flameproof gaps are only allowed according constructive information given from the original manufacturer. A repair according the values give in Table 1 or Table 2 of IEC 60079-1 is not permitted.

This EC type-examination certificate as well as any future supplements thereto shall at the same time be regarded as supplements for Component Certificate PTB 02 ATEX 1074.

(18) Essential health and safety requirements

Met by compliance with the aforementioned Standards

Zertifizierungsgestelle Explosionsschutz

Braunschweig, September 18, 2007





(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 07 ATEX 1025 U



(4) Equipment: Empty Enclosure EXB - N34 CN

(5) Manufacturer: KILLARK, Div of Hubbell Inc. (Delaware)

(6) Address: 3940 Martin Luther King Dr., St. Louis, MO 63113 USA

(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 07-16334.

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

EN 60079-0:2006 EN 60079-1:2004 EN 61241-0:2006 EN 61241-1:2004

(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 Ex d IIB + H2



II 2 D Ex tD A21 IP66

Zertifizierungsstelle Explosionsschutz

Braunschweig, September 11, 2007

By order

Dr.-Ing.

Direktor



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(13)

SCHEDULE

(14)

EC-TYPE-EXAMINATION CERTIFICATE PTB 07 ATEX 1025 U

(15) Description of equipment

The empty enclosure type EXB - N34 CN consists of the flame-proof housing made of cast aluminium with threaded holes for direct flame-proof cable entries or conduit entries and alternatively with operating rods and/or a sight glass. The empty housing serves to mount switches and control devices. Connection is through – separately certified - direct flame-proof cable entries or conduits.

Electrical data

Rated voltage max. 690 V

Conductor size AWG max. 500 mm²

Ambient temperature -20 °C to +60 °C

Protection against foreign bodies

and ingress of liquids: IP 66 according to EN 60529

Maximum power loss for use in temperature class

Housing Type	T6	T5
Housing type EXB-664	95 W	135 W
Housing type EXB-886	130 W	185 W
Housing type EXB-8104	130 W	185 W
Housing type EXB-8106	155 W	225 W
Housing type EXB-8126	185 W	270 W
Housing type EXB-8128	205 W	310 W
Housing type EXB-10106	195 W	280 W
Housing type EXB-10108	210 W	310 W
Housing type EXB-10146	235 W	335 W
Housing type EXB-10148	255 W	380 W
Housing type EXB-12126	205 W	310 W
Housing type EXB-12128	240 W	350 W
Housing type EXB-12186	280 W	385 W
Housing type EXB-12188	315 W	465 W
Housing type EXB-12246	350 W	500 W
Housing type EXB-12248	385 W	565 W
Housing type EXB-122412	495 W	740 W
Housing type EXB-12368	550 W	795 W
Housing type EXB-123610	590 W	875 W
Housing type EXB-14146	280 W	385 W
Housing type EXB-14148	315 W	465 W
Housing type EXB-16166	315 W	460 W
Housing type EXB-16168	340 W	500 W
Housing type EXB-16248	495 W	735 W

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SCHEDULE TO EC-TYPE-EXAMINATION CERTIFICATE PTB 07 ATEX 1025 U

Housing type EXB-162410	530 W	785 W
Housing type EXB-18186	400 W	585 W
Housing type EXB-18188	440 W	650 W
Housing type EXB-18248	495 W	740 W
Housing type EXB-182410	535 W	790 W
Housing type EXB-18368	685 W	1020 W
Housing type EXB-183610	725 W	1085 W
Housing type EXB-203611	870 W	1300 W
Housing type EXB-24248	610 W	910 W
Housing type EXB-242410	650 W	975 W
Housing type EXB-24308	650 W	975 W
Housing type EXB-24368	850 W	1265 W
Housing type EXB-243610	900 W	1350 W

Rated values are maximum values, the actual electrical values are determined by mounted electrical apparatus. Within these limiting values complying with the appropriate standards the manufacturer specifies the final limiting values dependent on power supply specifications, operating mode, utilization category, etc.

(16) Report PTB Ex 07-16334

(17) Special conditions for safe use

None;

Notes for manufacturing and operation

The controller may also be connected by means of suitable cable entries or conduit systems which meet the requirements of EN 60079-1:2004, sections 13.1 and 13.2, and for which a separate examination certificate has been issued.

Openings not used shall be closed in compliance with EN 60079-1:2004, section 11.

A repair and overhaul of the flameproof gaps are only allowed according constructive information given from the original manufacturer. A repair according the values give in Table 1 or Table 2 of EN 60079-1:2004 is not permitted. The empty enclosure shall be marked according to EN 60079-0, clause 29.2 i).

This EC type-examination certificate as well as any future supplements thereto shall at the same time be regarded as supplements for Component Certificate PTB 02 ATEX 1073 U.

(18) Essential health and safety requirements

Met by compliance with the aforementioned Standards

Zertifizierungsstelle Explosionsschutz
By order:
Dr.-Ing. G. K. ...
Direktor



Braunschweig, September 11, 2007

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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.