

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

(2) Equipment or protective system intended for use in potentially explosive atmospheres – Directive 94/9/EC

(3) EC-Type Examination Certificate Number: **KEMA 01ATEX1264 X**

(4) Equipment or protective system: **Proximity Switch Type Si 2-K08-Y1X and Type BIM-INT-Y1X**

(5) Manufacturer: **Hans Turck GmbH & Co. KG**

(6) Address: **Witzlebenstraße 7, 45472 Mülheim an der Ruhr, Germany**

(7) This equipment or protective system and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

(8) **KEMA Quality B.V.**, notified body number **0344** in accordance with Article 9 of the Council Directive 94/9/EC of 23 March 1994, certifies that this equipment or protective system 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 confidential report no. 2011237.

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

EN 50014 : 1997

EN 50020 : 1994

EN 50284 : 1999

(10) If the sign "X" is placed after the certificate number, it indicates that the equipment or protective system 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, examination and tests of the specified equipment or protective system in accordance to the Directive 94/9/EC. Further requirements of the Directive apply to the manufacturing process and supply of this equipment or protective system. These are not covered by this certificate.

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



II 1 G

EEx Ia IIC T4 ... T6

Arnhem, 20 December 2001
KEMA Quality B.V.



T. Pijker
Certification Manager

* This Certificate may only be reproduced in its entirety and without any change

(13)

SCHEDULE

(14)

to EC-Type Examination Certificate KEMA 01ATEX1264 X

(15) **Description**

Proximity Switch Type Si2-K08-Y1X is a contactor which is contactless activated by the approach or passing by of a metal object.

Proximity Switch Type BIM-INT-Y1X is a contactor which is contactless activated by a magnetic object.

The Proximity Switches are provided with a permanently connected cable, with a maximum length of 10 m.

Ambient temperature range: -25 °C ... +70 °C.

Electrical data

Supply and output signal
(brown and blue wires)

in type of explosion protection intrinsic safety EEx ia IIC, only for connection to a certified intrinsically safe circuit, with following maximum values:

$$\begin{aligned}
 U_i &= 15 \text{ V} \\
 I_i &= 60 \text{ mA} \\
 P_i &= 100 \text{ mW} \quad \text{for temperature class T6} \\
 &150 \text{ mW} \quad \text{for temperature class T4}
 \end{aligned}$$

The effective internal inductance L_i and the effective internal capacitance C_i are in accordance with following table:

Type	L_i (μH)	C_i (nF)
Si2-K08-Y1X	266	41
BIM-INT-Y1X	50	30

(16) **Report**

KEMA No. 2011237.

(17) **Special conditions for safe use**

For the ambient temperature range, refer to the description at (15).

For the parameters of the intrinsically safe circuits, refer to the electrical data mentioned at (15).

(18) **Essential Health and Safety Requirements**

Covered by the standards listed at (9).

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(19) **Test documentation**

1. Certificate of Conformity PTB No. Ex-86/2177 X
Certificate of Conformity BVS No. 89.C.2021 X

signed

2. Description (5 sheets))
3. Drawing No. WIEB-si2)
SP 12176600)
BP 12176600 (2 sheets))
662 600000) 03.12.2001
12254300 (3 sheets))
DZ 135)
4. Components list No. 12176601)
Components list No. 12254301)
5. Samples