



## EU - Type Examination Certificate

(1)

(2) Equipment and protective systems intended for use in potentially explosive atmospheres – Directive 2014/34/EU

(3) EU - Type Examination Certificate Number

EPS 17 ATEX 1 063 X

Revision 0

(4) Equipment: Bearing Temperature Sensor R84\*\*

(5) Manufacturer: WISE (Wise Control Inc.)

(6) Address: 2022, Deogyong-daero, Giheung-gu, Yongin-si, Gyeonggi-do, 17097, Korea

(7) This equipment and any acceptable variation thereto are specified in the annex to this certificate and the documentation therein referred to.

(8) Bureau Veritas Consumer Products Services Germany GmbH, notified body No. 2004 in accordance with Article 21 given in the Directive 2014/34/EU of the European Parliament and of the Council of 26 February 2014, 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 of the Directive. The examination and test results are recorded in the confidential documentation under the reference number 17TH0227.

(9) Compliance with the essential health and safety requirements has been assured by compliance with:


EN 60079-0:2012+A11:2013

EN 60079-11:2012

(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 annex to this certificate.

(11) This EU - Type Examination Certificate relates only to the design and examination of the specified equipment in accordance with Directive 2014/34/EU. Further requirements of this Directive apply to the manufacture of this equipment and its placing on the market. Those requirements are not covered by this certificate.

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

 II 1G Ex ia IIC T6...T3 Ga



Certification department of explosion protection

Nuremberg, 2017-08-31

H. Schaffer



Page 1 of 3

Certificates without signature and seal are void. This certificate is allowed to be distributed only if not modified. Extracts or modifications must be authorized by Bureau Veritas Consumer Products Services Germany GmbH. EPS 17 ATEX 1 063 X, Revision 0.



(13)

## Annex

(14) EU - Type Examination Certificate EPS 17 ATEX 1 063 X

Revision 0

(15) Description of equipment:

The bearing temperature sensor type R84\*\* is sensor device, used for measurement (e.g. motor) of temperatures with high accuracy.

### Electrical data:

#### Temperature class T6 : $-40\text{ °C} < T_{\text{amb}} < 75\text{ °C}$

1) One Pt100

$U_i = 30\text{V}$ ,  $I_i = 25\text{mA}$ ,  $P_i = 70\text{mW}$

2) Two Pt100

$U_i = 30\text{V}$ ,  $I_i = 15\text{mA}$  (each Pt100),  $P_i = 50\text{mW}$  (together)

$C_i, L_i = 0$

#### Temperature class T5 : $-40\text{ °C} < T_{\text{amb}} < 95\text{ °C}$

1) One Pt100

$U_i = 30\text{V}$ ,  $I_i = 55\text{mA}$ ,  $P_i = 630\text{mW}$

2) Two Pt100

$U_i = 30\text{V}$ ,  $I_i = 45\text{mA}$  (each Pt100),  $P_i = 760\text{mW}$  (together)

$C_i, L_i = 0$

#### Temperature class T4 : $-40\text{ °C} < T_{\text{amb}} < 130\text{ °C}$

1) One Pt100

$U_i = 30\text{V}$ ,  $I_i = 55\text{mA}$ ,  $P_i = 630\text{mW}$

2) Two Pt100

$U_i = 30\text{V}$ ,  $I_i = 50\text{mA}$  (each Pt100),  $P_i = 1\text{W}$  (together)

$C_i, L_i = 0$

#### Temperature class T3 : $-40\text{ °C} < T_{\text{amb}} < 180\text{ °C}$

1) One Pt100

$U_i = 30\text{V}$ ,  $I_i = 40\text{mA}$ ,  $P_i = 255\text{mW}$

2) Two Pt100

$U_i = 30\text{V}$ ,  $I_i = 30\text{mA}$  (each Pt100),  $P_i = 260\text{mW}$  (together)

$C_i, L_i = 0$



(16) Reference number: 17TH0227

(17) Special conditions for safe use:

The flying leads of the sensor must be installed in a housing with min protection IP20. Refer also the "instruction manual".

The ambient temperature range differs from the standard temp. range. Refer also "instruction manual".

The temperature classes T3 to T6 have to be observed according to the specific application (high temperature).

Due to the specific installation (e.g. motor) the RTD has to be protected from electrostatic charging/ discharging.

(18) Essential health and safety requirements:

Met by compliance with standards.

Certification department of explosion protection

Nuremberg, 2017-08-31



H. Schaffer