

Translation:

(1) **Type Examination Certificate**

(2) Equipment or Protective systems intended for use in potentially explosive atmosphere **Directive 2014 / 34 / EU and SI 2016/1107**

(3) **Number:** **TURCK Ex-25001H X** **issue No.:** **0**

(4) **Product:** Inclinometers  
Condition-Monitoring-Sensor  
  
a-QR20 - b X3 - H11 d 1 / 3GD

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

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

(7) The design of this product and any acceptable variation thereto is specified in the appendix to this Type Examination Certificate.

(8) The Hans Turck GmbH & Co. KG certifies that this product 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 are recorded in the confidential Assessment Report TURCK Ex-25001H X.

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

**EN IEC 60079-0:2018**                      **EN IEC 60079-7:2015/A1:2018**                      **EN 60079-31:2022**

(10) If the sign "X" is placed after the certificate number, it indicates that the product or protective system is subject to special conditions for safe use specified in the schedule to this certificate.

(11) This Type Examination Certificate relates only to the design, examination and tests of the specified equipment in accordance to the Directive 2014 / 34 / EU and to the SI 2016/1107. Further requirements of the Directive apply to the manufacturing process and supply of this equipment. These are not covered by this certificate.

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


 **II 3 G Ex ec IIC T4 Gc**  
**II 3 D Ex tc IIIC T110°C Dc**

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Mülheim an der Ruhr, Date 2025-05-14

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(i.A. W. Dick)  
Certification Representative

Translation:

(13) **Appendix**

(14) **Statement of Conformity TURCK Ex-25001H X**

(15) Product description

The condition monitoring sensors of the CMVT product series monitor the temperature and vibration of machines. The process values are output by the device via IO-Link. The devices also indicate via switching outputs any vibration speeds above the permissible limits. The inclinometers of the B...N...-QR20-... product series determine the inclination angle. Depending on the device type, the process values are output via analog outputs, switching outputs, IO-Link interface.

Type code:

A	-QR20	-b X3	-H11d1 /3GD	
			Ex sensor	Zone2, Zone22
			Connector	d: Pins 4 or 5
			Output	b: Output IOL: IO-Link Interface 2UPN6: 2 x switching outputs PNP/NPN 2LU: 2 x analogue output 4...20mA 2LI2: 2 x analogue output 0-10V
				X3: nr. of LED 3: 3 x LED
			Housing / Style	QR20 Cuboid design height 20mm
			Typ of Sensor	CMVT condition monitoring sensor
				B e N f g Static inclinometer
				B e N F f g Dynamic inclinometer
				e: Functional 1 or 2 axes
				f: Measuring range 10°- 360°
				g: Alignment V: vertical, H: horizontal

Ambient temperature range: -30°C...+70°C

Electrical Data:

Nominal voltage 15...30V DC

(16) Report Number:  
PBEx-25001HX

(17) Special conditions for safe use:

- The device shall be connected in compliance with IEC 60079-14 requirements, providing and maintaining degree of protection at least IP54 (resp. IP6X for dust atmospheres IIIC) according to IEC 60079-0 requirements
- The device connectors have to be secured against accidentally disconnecting; use the included safety clip SC-M12 / 3GD.
- The sensor was tested with reduced energy against impact. See user manual.
- The device shall be protected against ultraviolet radiation.

(18) Essential health and safety requirements:

- no additional ones