



1 EC-TYPE EXAMINATION CERTIFICATE

2 Equipment or Protective systems intended for use in Potentially
Explosive Atmospheres - Directive 94/9/EC

3 EC-Type Examination Certificate No: FM13ATEX0061X

4 Equipment or protective system:
(Type Reference and Name) R16 Liquid Level Probe

5 Name of Applicant: Hans Turk GmbH & Co. KG

6 Address of Applicant: Witzlebenstrasse 7
Mulheim An Der Ruhr 45472
Germany

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

8 FM Approvals Ltd, notified body number 1725 in accordance with Article 9 of 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 intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in confidential report number:

3049818 dated 26th July 2013

9 Compliance with the Essential Health and Safety Requirements, with the exception of those identified in item 15 of the schedule to this certificate, has been assessed by compliance with the following documents:

EN60079-0: 2012, EN60079-11: 2012, EN60079-26: 2007

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, 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:



II 1 G Ex ia IIB T4 Tamb = -40°C to +70°C

Mick Gower
Certification Manager, FM Approvals Ltd.

Issue date: 20th September 2013

THIS CERTIFICATE MAY ONLY BE REPRODUCED IN ITS ENTIRETY AND WITHOUT CHANGE

FM Approvals Ltd. 1 Windsor Dials, Windsor, Berkshire, UK. SL4 1RS
T: +44 (0) 1753 750 000 F: +44 (0) 1753 868 700 E-mail: atex@fmapprovals.com www.fmapprovals.com

SCHEDULE

to EC-Type Examination Certificate No. FM13ATEX0061X

13 Description of Equipment or Protective System:

Level Probe Model LTed-R16-bijLla-EX-c/k

a = Output 0 - 1

b = Style/Material 3, P, S, or F

c = Style/Connector D, S or B1140

d = Type E or M

e = Span, any three or four figure number

i = Special mounting 2, 3, 4, C or blank

j = Special mounting 0, 5 or blank

k = Optional finish specification: 3A or blank

The Model R16 Series is a loop powered 4-20mA Magnetostrictive Level Sensor. The apparatus is a three wire device, with connection facilities for power/signal (IN+), programming (SETIN) and common (IN-) and maybe supplied from either 1 or 2 intrinsically safe barriers, as shown on the control Drawing IS-1.111.

Operation Temperature Ranges:

The ambient operating temperature range of the Model Liquid Level Transmitter is -40°C to 70°C.

Electrical data:

In type of protection intrinsic safety, connection can only be made to a certified intrinsically safe circuit with the following values:

$U_i \leq 30\text{Vdc}$; $I_i \leq 216\text{mA}$; $P_i \leq 1\text{W}$; $C_i \leq 0.0\mu\text{F}$; $L_i = 0\text{mH}$

14 Special Conditions for Safe Use:

The apparatus contains exposed non-metallic surfaces considered to constitute an electrostatic discharge hazard. Clean only with a damp cloth.

15 Essential Health and Safety Requirements:

The relevant EHSRs that have not been addressed by the standards listed in this certificate have been identified and assessed in the confidential report identified in item 8.

16 Test and Assessment Procedure and Conditions:

This EC-Type Examination Certificate is the result of testing of a sample of the product submitted, in accordance with the provisions of the relevant specific standard(s), and assessment of supporting documentation. It does not imply an assessment of the whole production.

Whilst this certificate may be used in support of a manufacturer's claim for CE Marking, FM Approvals Ltd accepts no responsibility for the compliance of the equipment against all applicable Directives in all applications.

This Certificate has been issued in accordance with FM Approvals Ltd's ATEX Certification Scheme.

17 Schedule Drawings

A list of the significant parts of the technical documentation is annexed to this certificate and a copy has been kept by the Notified Body.

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18 Certificate History

Details of the supplements to this certificate are described below:

Date	Description
20 th September 2013	Original Issue.

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Blueprint Report

Hans Turck GmbH & Co KG (106275)

Class No 3610

Original Project I.D. 3049818

Certificate I.D. FM13ATEX0061X

<u>Drawing No.</u>	<u>Revision Level</u>	<u>Drawing Title</u>	<u>Last Report</u>	<u>Electronic Drawing</u>
PL/TA	08/09/13	PL/TA Agreement Dated August 9, 2013	3049818	Yes (pdf)