CERTIFICATE OF CONFORMITY

1. **HAZARDOUS (CLASSIFIED) LOCATION ELECTRICAL EQUIPMENT PER US REQUIREMENTS**
2. **Certificate No:** **FM18US0082X**
3. **Equipment: (Type Reference and Name)** **Capacitive Sensors**
4. **Name of Listing Company:** **Turck Inc.**
5. **Address of Listing Company:** **3000 Campus Drive**
   Plymouth, MN 55441
   United States
6. The examination and test results are recorded in confidential report number:

   3062911 dated 22nd March 2018

7. FM Approvals LLC, certifies that the equipment described has been found to comply with the following Approval standards and other documents:

   FM Class 3600:2018, FM Class 3611:2018, FM Class 3810:2018, ANSI/UL 121201:2017, ANSI/ISA 61010-1:2015, ANSI/IEC 60529:2004

8. If the sign 'X' is placed after the certificate number, it indicates that the equipment is subject to specific conditions of use specified in the schedule to this certificate.
9. This certificate relates to the design, examination and testing of the products specified herein. The FM Approvals surveillance audit program has further determined that the manufacturing processes and quality control procedures in place are satisfactory to manufacture the product as examined, tested and Approved.
10. Equipment Ratings:

    Nonincendive for Class I, Division 2, Groups A, B, C & D, and Class I, Zone 2, Group IIC, Hazardous (Classified) Locations with IP67, when installed per Control Drawing NI-2.524.

11. The marking of the equipment shall include:

    Class I, Division 2, Groups A, B, C, D; T4; Ta = -25°C to +70°C; NI-2.524; IP67
    Class I, Zone 2, Group IIC; T4; Ta = -25°C to +70°C; NI-2.524; IP67

    CAUTION: DO NOT DISCONNECT WHEN CIRCUIT IS LIVE

Certificate issued by:

J.E. Marquedant
VP, Manager, Electrical Systems

22 March 2018
Date

To verify the availability of the Approved product, please refer to www.approvalguide.com

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

SCHEDULE

US Certificate Of Conformity No: FM18US0082X

12. **Description of Equipment:**

General – The Turck Capacitive Sensors are non-contact sensing for detecting a wide variety of materials, used in applications such as liquid level control, plastic pellet detection, grain or other food product level detection, etc… The sensors connect to Turck Eurofast Series cords and cables, and the connectors are secured using the Lokfast guards.

Operation Temperature Ranges - The ambient operating temperature range is -25°C to +70°C.

Ratings - The Capacitive Sensors operate at a voltage range of 10 to 30Vdc or 10 to 65Vdc.

ab-cd-efghi-j/k Capacitive Sensors
a = Mounting: BC or BCT
b = Sensing Distance: 5 or 10
c = Housing Style: M or S
d = Housing Diameter: M8 or S18
e = Output Function: A, R, or U
f = Output Type: P or N
g = Voltage Range: 4 or 6
h = LED: X, X2, or blank
i = Teachable: T or blank
j = Sensors with connector: H1141 or H1151
k = Option: S250 or blank

13. **Specific Conditions of Use:**

1. The Lokfast guards present a potential electrostatic charging hazard. Clean only with a damp cloth.

14. **Test and Assessment Procedure and Conditions:**

This Certificate has been issued in accordance with FM Approvals US Certification Requirements.

15. **Schedule Drawings**

A copy of the technical documentation has been kept by FM Approvals.

16. **Certificate History**

Details of the supplements to this certificate are described below:

Date	Description
22 March 2018	Original Issue.

FM Approvals LLC. 1151 Boston-Providence Turnpike, Norwood, MA 02062 USA
T: +1 (1) 781 762 4300 F: +1 (1) 781 762 9375 E-mail: information@fmapprovals.com www.fmapprovals.com