

CERTIFICATE OF CONFORMITY



1. HAZARDOUS LOCATION ELECTRICAL EQUIPMENT PER CANADIAN REQUIREMENTS

2. **Certificate No:** FM20CA0072X
3. **Equipment:** Soliswitch FTE20/OFTE20 Level Limit Switch
(Type Reference and Name)
4. **Name of Listing Company:** Endress + Hauser Wetzler GmbH + Co KG
5. **Address of Listing Company:** Obere Wank 1, D-87484 Nesselwang, Germany
6. The examination and test results are recorded in confidential report number:

3046971 dated 6th June 2014

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

CSA C22.2 No. 25:2017 (R2022), CSA C22.2 No. 60529:R2021, CSA C22.2 No. 61010-1:2012

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:**
Dust-ignitionproof for Class II, Division 1, Groups E, F and G; hazardous (classified) locations, indoors and outdoors (IP66) with an ambient temperature rating of -20°C to +60°C.
11. The marking of the equipment shall include:
Class II, Division 1, Groups E, F, G, Class III, Division 1; T4 Ta = -20°C to +60°C; IP66
12. **Description of Equipment:**

The Soliswitch, type FTE20 and OFTE20 are paddle type level limit switches for granular solids. They operate on the principle of a rotating paddle that when in contact with the process will stop rotating and operate a switch

Certificate issued by:

J.E. Marquedant
VP, Manager - Electrical Systems

4 April 2025

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

FM Approvals LLC. One Technology Way, Norwood, MA 02062 USA

T: +1 (1) 781 762 4300 F: +1 (1) 781 762 9375 E-mail: information@fmaprovals.com www.fmaprovals.com

F 348 (Jul 24)



SCHEDULE

Canadian Certificate of Conformity No: FM20CA0072X

FM Approvals

contact. The Type, OFTE20, is identical to FTE20, with identical mechanical dimension and material but with a different color additive.

Operation Temperature Ranges:

The ambient operating temperature range of the Soliswitch FTE20/OFTE20 is -20°C to 60°C. Process temperature range is -20°C to 60°C.

Electrical data:

20...28VDC; 24VAC; 115VAC and 230VAC, 50/60Hz, 3.5VA

Refer to the Annex for Model Codes.

13. Specific Conditions of Use:

1. To prevent the risk of electrostatic sparking, non-metallic surfaces should be cleaned with a damp cloth.

14. Test and Assessment Procedure and Conditions:

This Certificate has been issued in accordance with FM Approvals Canadian Certification Scheme.

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
6 June 2014	Original Issue.
5 March 2021	<u>Supplement 2:</u> Report Reference: RR225462 dated 5 th March 2021. Description of the Change: Certificate transferred to new format. Added Specific Condition of Use. Model code option c = YY (shaft, up to 500 mm) added. Standards are updated as follows: CAN/CSA C22.2 No. 25-1966:R2009 is updated to R2017. CSA C22.2 No. 1010.1-1:2004 is updated to CAN/CSA-C22.2 No. 61010-1:2012. CSA C22.2 No. 60529:2005 is updated to CSA-C22.2 No. 60529:R2016.
4 April 2025	<u>Supplement 3:</u> Report Reference: RR245559 dated 4 April 2025. Description of the Change(s): Model Code changes to add New Shaft versions. Standards updated to latest reaffirmed dates where possible.

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

FM Approvals LLC. One Technology Way, Norwood, MA 02062 USA

T: +1 (1) 781 762 4300 F: +1 (1) 781 762 9375 E-mail: information@fmaprovals.com www.fmaprovals.com

F 348 (Jul 24)



SCHEDULE

Canadian Certificate of Conformity No: FM20CA0072X

FM Approvals

ANNEX

FTE20-FC

Description of Equipment:

FTE20-FCbcdefgh. Soliswitch Level Limit Switch.

b = Process connection Material: 11 (Thread NPT 1 ½; PBT), 12 (Thread NPT 1 ¼; PBT), 13 (Thread G1 ½; PBT), 14 (Thread NPT 1 ½; 3034), 15 (Thread NPT 1 ¼; 3034), 16 (Thread G1 ½; PBT)

c = Version, Length: AA (Shaft, 75mm), AB (Shaft, 100mm), AC (Shaft, 120mm), AD (Shaft, 200mm), AE (Shaft, 300mm), AF (Rope, 2000mm, shortable), YY (shaft, up to 600 mm), AG (Shaft, 400mm, vertical), AH (Shaft, 500mm, vertical), AI (Shaft, 600mm, vertical)

d = Power Supply: 1 (20 – 28VDC), 2 (24VAC), 3 (115VAC), 4 (230VAC)

e = Paddle Material: 1 (Standard; 304), 2(Fold-away; 304)

f = Additional Option: CA (Rotation monitoring)

g = Accessory Mounted: Not allowed

h = Accessory Enclosed: PA (weather protection cover)

OFTE20-FC

Description of Equipment:

OFTE20-FCbcdefghi. Soliswitch Level Limit Switch.

b = Process connection Material: 11 (Thread NPT 1 ½; PBT), 12 (Thread NPT 1 ¼; PBT), 13 (Thread G1 ½; PBT), 14 (Thread NPT 1 ½; 303), 15 (Thread NPT 1 ¼; 303), 16 (Thread G1 ½; PBT)

c = Version, Length: AA (Shaft, 75mm), AB (Shaft, 100mm), AC (Shaft, 120mm), AD (Shaft, 200mm), AE (Shaft, 300mm), AF (Rope, 2000mm, shortable), YY (shaft, up to 600 mm), AG (Shaft, 400mm, vertical), AH (Shaft, 500mm, vertical), AI (Shaft, 600mm, vertical)

d = Power Supply: 1 (20 – 28VDC), 2 (24VAC), 3 (115VAC), 4 (230VAC)

e = Paddle Material: 1 (Standard; 304), 2(Fold-away; 304)

f = Customer: NN (Neutral, light grey (RAL7035))

g = Additional Option: CA (Rotation monitoring)

h = Accessory Mounted: Not allowed

i = Accessory Enclosed: PA (weather protection cover)

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

FM Approvals LLC. One Technology Way, Norwood, MA 02062 USA

T: +1 (1) 781 762 4300 F: +1 (1) 781 762 9375 E-mail: information@fmaprovals.com www.fmaprovals.com

F 348 (Jul 24)



Page 3 of 3