



Certificate of Compliance

Certificate: 1241483 (079626_0_000)

Master Contract: 160618

Project: 70044381

Date Issued: 2015-11-19

Issued to: ABB Inc.
18321 Swamp Rd
Prairieville, Louisiana 70769
USA
Attention: Fred Ramirez

The products listed below are eligible to bear the CSA Mark shown



Issued by: Ron Wachowicz
Ron Wachowicz

PRODUCTS

CLASS - C225802 - PROCESS CONTROL EQUIPMENT-For Hazardous Locations-

For details related to rating, size, configuration, etc. reference should be made to the CSA Certification Record or the descriptive report.

**XP: Class I, Division 1, Groups A, B, C and D; Class II, Groups E, F and G; Class III; Encl. Type 4X;
Zones FP: Class I, Zone 1, Ex d IIC:**

Series TS and TX thermal dispersion flow/level/temperature switches with KTEK HSG2020 Single Compartment Housing (Standard), rated 24 Vdc/Vac, 90-132 Vac or 200-240 Vac, 5.5 Watts max, maximum operating ambient @ Ta = 76° C, Temperature code T3C.

XP: Class I, Division 1, Groups A, B, C and D; Class II, Groups E, F and G; Class III; Encl. Type 4X:

Series TS and TX thermal dispersion flow/level/temperature switches with KTEK AT Dual Compartment Housing, rated 24 Vdc/Vac, 90-132 Vac or 200-240 Vac, 5.5 Watts max, maximum operating ambient @ Ta = 60° C, Temperature code T3C.

Model Nomenclature for all XP Equipment:

Model TS.a.b.c.d.e.f.g.h.i.j where:



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a = Housing: A1, A1W, A2, A2W, S2 or S2W
b = Material Type: S6 or EP
c = Process Connection: Any connection type, not part of CSA evaluation.
d = Insertion Length: 18, 12 or CS
e = Power Input: 1, 2 or 3
f = Process Temperature: Any process temp, not part of CSA evaluation.
g = Approvals: CDX
h = Dual Switch Point: X or DS
i = Remote Mount Housing: Any remote mounting length, not part of CSA FP or XP evaluation.
j = Hermetic Seal: X or HS

Model TX.a.b.c.d.e.f.g.h.i.j.k.l.m where:

a = Housing: A1, A1W, A2, A2W, S2 or S2W
b = Material Type: S6, HB, HC, AM, T2, T7 or A20
c = Process Connection: Any connection type threaded or flanged, not part of CSA evaluation.
d = Insertion Length: 18, 12 or CS
e = Power Input: 1, 2 or 3
f = Process Temperature: Any process temp, not part of CSA evaluation.
g = Approvals: CSX
h = Dual Switch Point: X or DS
i = Remote Electronics: Any remote electronics type, not part of CSA FP or XP evaluation.
j = Flow Options: Any flow option type, not part of CSA evaluation.
k = High Pressure: Any high pressure type, not part of CSA evaluation.
l = Packing Gland: Any packing gland, not part of CSA evaluation.
m = Hermetic Seal: X or HS

APPLICABLE REQUIREMENTS

CAN/CSA-C22.2 No. 0-M1991	- General Requirements, Canadian Electrical Code, Part II
CAN/CSA-C22.2 No. 0.4-M1982	- Bonding and Grounding of Electrical Equipment (Protective Grounding)
CAN/CSA-C22.2 No. 0.5-M1982	- Threaded Conduit Entries
CAN/CSA C22.2 No. 25-1966	- Enclosures for Use in Class II, Groups E, F and G Hazardous Locations
CAN/CSA-C22.2 No. 30-M1986	- Explosion-Proof Enclosures for Use in Class I Hazardous Locations
CAN/CSA-C22.2 No. 94-M1991	- Special Purpose Enclosures
CAN/CSA C22.2 No.142-M1987	- Process Control Equipment
CAN/CSA-E60079-0: 2001	- Electrical Apparatus for Explosive Gas Atmospheres – Part 0 General Requirements
CAN/CSA-E60079-1: 2001	- Electrical Apparatus for Explosive Gas Atmospheres – Part 1 Flameproof Enclosures “d”

MARKINGS

See the Descriptive Report and Test Results document for marking details.



Supplement to Certificate of Compliance

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*The products listed, including the latest revision described below,
are eligible to be marked in accordance with the referenced Certificate.*

Product Certification History

Project	Date	Description
70044381	2015-11-19	Update to Report 1241483 to include changes in model ordering code to comply with new parent company ordering nomenclature for TX and TS models and to delist the model series IX and TQ.
1418492	2003-04-30	Update 1241483 to include new single compartment housing. Update submittor name on profile from K-TEK Corporation to K-Tek LLC
1241483	2001-12-10	Certification of Series TQ, TS, TX and IX thermal dispersion flow/level/temperature switches.