

CERTIFICATE OF CONFORMITY



- HAZARDOUS (CLASSIFIED) LOCATION ELECTRICAL EQUIPMENT PER US REQUIREMENTS**
- Certificate No:** FM16US0354
- Equipment:** Instrument Housing with Transmitters
(Type Reference and Name) Series "BH" Instrument Housing, 2-Wire Transmitters
- Name of Listing Company:** Moore Industries-International, Inc.
- Address of Listing Company:** 16650 Schoenbirn Street
North Hills, California 91343
USA
- The examination and test results are recorded in confidential report number:

3004239 dated 17th September 1999
- FM Approvals LLC, certifies that the equipment described has been found to comply with the following Approval standards and other documents:

FM Class 3600:2011, FM Class 3615:2006, FM Class 3810:2005,
ANSI/NEMA 250:1991, ANSI/IEC 60529:2004
- 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.
- 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.
- Equipment Ratings:**

Explosionproof for Class I, Division 1, Groups A, B, C and D; Dust-ignitionproof for Class II, Division 1, Groups E, F and G; Class III hazardous (classified) locations, indoors and outdoors (Type 4X, IP66) with an ambient temperature rating of -25°C to +60°C.

Certificate issued by:



J. E. Marquedant
Manager, Electrical Systems

19 October 2016

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, 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

SCHEDULE



US Certificate Of Conformity No: FM16US0354

11. The marking of the equipment shall include:

Class I Division 1, Groups A, B, C, D; T6 Ta = -25°C to +60°C; Type 4X, IP66

Class II, Division 1, Groups E, F, G, Class III, Division 1; T6 Ta = -25°C to +60°C; Type 4X, IP66

12. **Description of Equipment:**

General – The Series “BH” Instrument Housing enclosures may be a standalone empty enclosure or supplied with a variety of Two-Wire Transmitters (hockey puck) listed in the modle code options. The Two-Wire Transmitters are used in a wide variety of applications, such as, converting thermocouple, resistance, millivolt or varying frequencies input signals to a standard 4-10 mA or 10-50mA current output or Liquid Crystal Display.

Construction - The Series “BH” Instrument Housing and screw on cap are machined from 6063 aluminum extrusions which are coated with a chromatic coating and a salt water resistant high solids polyurethane. The screw on cap available with optional window is sealed to the body by an o-ring. The housing wall has two holes tapped for connection of either ½ inch NPT, ¾ inch NPT or M20 x 1.5 conduit and the housing base is provided blank or with an optional ½ inch NPT conduit entry. The enclosure has a diameter of 4 inches with an overall height of 4.7 inches.

Ratings - The Two-Wire Transmitters oprate at 42V DC, 110mA current, 3 Watts. The transmitters are rated for use in an ambient temperature range of -25°C to +60°C. Sensor Probes are not part of this certification.

Model/Input/output/Power/-Options [BHabcd]. Two-Wire Transmitters.

ACX/0-150 V ac, 0-5 A/4-50 mA/12-42 dc/-EM, EZ, RF, SURG [BHabcd]

ALX/4-50 mA/H1, L1, L2/6.3 VLP (4-20 mA), 7.0 VLP (10-50 mA)/-AD, LVDC, MR, SURG [BHabcd]

DSX/4-20 mA/(-1999)-1999/1.0 VLP/-DZ, RO, S, SURG [BHabcd]

DVX/4-50 mA/(-1999)-1999/2.5 VLP/-DZ, RF, RO, SURG [BHabcd]

EPFDX/A-X/4-50 mA/12-42 dc/-CC, RF, S10, S30, S100, SURG [BHabcd]

FDY/F1, F2, P1, P2/4-20 mA/12-42 dc/-ISA, ISC, ISCN, ISE, ISF, NE, SURG [BHabcd]

ITX/4-50 mA/(A4-A1), A-J/6.3-7 VLP/-CD"X", FR, LV, RF, S, SURG [BHabcd]

LRX/PT1/1-5V/8-30V/-RF, SURG [BHabcd]

MVX/5-1280MVFS, 0-50 mA, (-10)-150 V/4-50 mA/12-42 dc/-AT, DD, EZ, LSA, RF, RIB, SAA, UD, SURG [BHabcd]

PSD/4-20MA/PRG/2.3VLP/-ISA, ISC, ISCN, ISE, ISF, NE, SURG [BHabcd]

PTX/A, B, C/4-50 mA/12-42 dc/-ISB, ISC, ISF, RF, RO, SURG [BHabcd]

RBX/(2-3)W, 0-1 K/4-50 mA/12-42 dc/-DT, EZ, ISB, ISC, ISF, LNP, RF, RO, SAA, SURG [BHabcd]

RIY/R0-R15/4-20 mA/12-42 dc/-DD, ISA, ISC, ISCN, ISE, ISF, ND, NE, SURG [BHabcd]

SCX/4-50 mA/4-50 mA/12-42 dc/-DD, ISA, ISC, ISCN, ISE, ISF, ND, NE, SURG [BHabcd]

SDY/PRG, 0-10 V, 0-50 mA/4-20 mA/10-42 dc, 1-ISA, ISC, ISCN, ISE, ISF, NE, SURG [BHabcd]

SFY/F1, F2, P1, P2/4-20 mA/12-42 dc, SURG [BHabcd]

SIY/V, I/4-20MA/10-30DC/-R, ISF, SURG [BHabcd]

SLD/4-20 mA/PRG/ 2.3vlp, SURG [BHabcd]

STZ/TPRG, J, K, E, T, R, S, N, B, C, MV, R1-R14, RO, POT/4-20mA/12-30DC, 12-42DC/TROP, VTB, VTD, FMEDA, SURG [BHabcd]

TCX/E, J, K, R, S, T, 2-5, 5-10, 10-20, 20-50MVFS, /4-20MA, 10-50MA/12-42DC/-DD, EZ, LSA, RF, SURG [BHabcd]

TDY/PRG/4-20 mA/10-42 dc, 1-ISA, ISC, ISCN, ISE, ISF, NE, SURG [BHabcd]

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

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@fmaprovals.com www.fmaprovals.com

SCHEDULE



Member of the FM Global Group

US Certificate Of Conformity No: FM16US0354

TDZ/PRG/4-20MA/10-42DC/-ISA, ISC, ISCN, ISE, NE, SURG [BHabcd]
TDZ2/TPRG, HLRPG, 2TPRG, C, B, E, J, K, N, R, S, T, MV, R1-R14, RO, POT/4-20MA/12-42DC/-VTB, VTD, FMEDA, SURG [BHabcd]
TDZ3/TPRG, J, K, E, T, R, S, N, B, C, MV, R1-R14, RO, POT/4-20mA/12-30DC, 12-42DC/TROP, VTB, VTD, FMEDA, SURG [BHabcd]
TFZ/TPRG, C, B, E, J, K, N, R, S, T, MV, R1-R14, RO, POT/H1/9-30DC, 9-32DC, 9-24DC/-VTB, VTD, SURG [BHabcd]
THZ2/TPRG, HLRPG, 2TPRG, C, B, E, J, K, N, R, S, T, MV, R1-R14, RO, POT/4-20MA/12-42DC/-VTB, VTD, FMEDA, SURG [BHabcd]
THZ3/TPRG, J, K, E, T, R, S, N, B, C, MV, R1-R14, RO, POT/4-20mA/12-30DC, 12-42DC/VTB, VTD, FMEDA, SURG [BHabcd]
TIY/E1-3, J1-2, K1-2, N1-2, R1, S1, T1-2, MV1-3/4-20 mA/12-42 dc/-DD, DDX, ISA, ISC, ISCN, ISE, ISF, ND, NE, NL, SP1-2, STC, SURG [BHabcd]
TPZ/TPRG, C, B, E, J, K, N, R, S, T, MV, R1-R14, RO, POT/PA/9-30DC, 9-32DC, 9-24DC/-VTB, VTD, SURG [BHabcd]
TRY/B, E, J, K, N, R, S, T, MV, R1-R23, RO/4-20MA/10-30DC/-R, ISF, SURG [BHabcd]

a = Number of Conduit Entry Hubs 2 (Two-Hub Base) or 3 (Three-Hub Base).
b = Type of Conduit Entry Threads M (Metric), N (1/2" NPT) or T (3/4" NPT).
c = Type of Cover G(Glass) or S (Solid).
d = Optional 2" Stainless Steel Pipe-Mount Hardware kit P.

BHabcd. Instrument Housing.

a = Conduit hub 2 or 3.
b = Type of conduit entry threads M, N or T.
c = Cover type G or S.
d = Optional stainless steel pipe-mount hardware kit P.

13. **Specific Conditions of Use:**

None

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:

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

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

SCHEDULE



Member of the FM Global Group

US Certificate Of Conformity No: FM16US0354

Date	Description
17 th September 1999	Original Issue.
19 th October 2016	<u>Supplement 7:</u> Report Reference: – RR206697 dated 19 th October 2016 Description of the Change: Minor revisions to documentation, added SLD, SFY and Surge Suppressor to product offering. Converted to new Certificate format.

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

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