



Member of the FM Global Group

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# CERTIFICATE OF COMPLIANCE

## HAZARDOUS (CLASSIFIED) LOCATION ELECTRICAL EQUIPMENT

This certificate is issued for the following equipment:

**JBBS-49SC-ab1c. Junction Brick.**

**JBBS-48SC-ab1c. Junction Brick.**

NI-ANI / I / 2 / CD / T6 Ta = 70°C — NI-2.401; NIFW; Type 4X

Nonincendive Field Wiring Parameters:

Rectangular Characteristic

V<sub>oc</sub> = 30 V    I<sub>sc</sub> = 63 mA    P<sub>o</sub> = 1.89W    C<sub>a</sub> = 0.06 μF    L<sub>a</sub> = 1 mH

Or

V<sub>oc</sub> = 28 V    I<sub>sc</sub> = 63 mA    P<sub>o</sub> = 1.76W    C<sub>a</sub> = 0.1 μF    L<sub>a</sub> = 1 mH

a = Connector style: E or M.

b = Number of spurs: 4, 6 or 8.

c = Connector material: 3 or 4.

*Special Conditions of Use:*

- 1) When the installation of the Junction Brick is a wiring method other than nonincendive field wiring, then the Junction Brick may be used in Group A/B areas, using the Approved lokfast Guard and ITC or PLTC cable types as defined by the NEC®.

**JTBS-49SC-ab3c. Junction Brick.**

**JTBS-48SC-ab3c. Junction Brick.**

NI-ANI / I / 2 / CD / T5 Ta = 80°C — NI-2.401; NIFW; Type 4X

Nonincendive Field Wiring Parameters:

Rectangular Characteristic

V<sub>oc</sub> = 30 V    I<sub>sc</sub> = 63 mA    P<sub>o</sub> = 1.89W    C<sub>a</sub> = 0.06 μF    L<sub>a</sub> = 1 mH

Or

V<sub>oc</sub> = 28 V    I<sub>sc</sub> = 63 mA    P<sub>o</sub> = 1.76W    C<sub>a</sub> = 0.1 μF    L<sub>a</sub> = 1 mH

a = Connector style: E or M.

b = Number of spurs: 4, 6 or 8.

c = Connector material: 3 or 4.

*Special Conditions of Use:*

- 1) When the installation of the Junction Brick is a wiring method other than nonincendive field wiring, then the Junction Brick may be used in Group A/B areas, using the Approved lokfast Guard and ITC or PLTC cable types as defined by the NEC®.

## Equipment Ratings:

Nonincendive for use in Class I, Division 2, Groups A, B, C, & D; indoor/ outdoor hazardous (classified) location, utilizing Type 4X enclosure with a Temperature Class T6, T5 Ta = 70°C, Ta = 80°C and Nonincendive field wiring with connection to Class I, Division 2, Groups C & D hazardous (classified) location in accordance with control drawing NI-2.401

This certifies that the equipment described has been found to comply with the following Approval Standards and other documents:

Class 3600	1998
Class 3611	1999
Class 3810	1989

**JBBS-25-a61b. Junction Brick.**

**JBBS-25SC-a61b. Junction Brick.**

**JBBS-25-a81b. Junction Brick.**

NI / I / 2 / ABCD / T4 Ta = 80°C; Type 4X

a = Connector style: E or M.

b = Connector material: 3 or 4.

*Special Conditions of Use:*

- 1) All cabling drops must be ITC or PLTC cable types as defined by the NEC®, using the Approved lokfast Guard.
- 2) Use Turck installation drawing NI-2.401 in addition to NEC®

**JTBS-a-bc3d. Junction Brick.**

**JTBS-57VM-cd3e. Junction Brick.**

NI / I / 2 / ABCD / T5 Ta = 80°C; Type 4X

a = Bus standard: 48 or 49.

b = Connector style: E or M.

c = Number of spurs: 4 or 6.

d = Connector material: 3 or 4.

*Special Conditions of Use:*

- 1) All cabling drops must be ITC or PLTC cable types as defined by the NEC®, using the Approved lokfast Guard.
- 2) Use Turck installation drawing NI-2.401 in addition to NEC®

**JBBS- a-bc1d. Junction Brick.**

NI / I / 2 / ABCD / T5 Ta = 80°C; Type 4X

a = Bus standard: 48 or 49.

b = Connector style: E or M.

c = Number of spurs: 4, 6, or 8.

d = Connector material: 3 or 4.

*Special Conditions of Use:*

- 1) All cabling drops must be ITC or PLTC cable types as defined by the NEC®, using the Approved lokfast Guard.
- 2) Use Turck installation drawing NI-2.401 in addition to NEC®

**Equipment Ratings:**

Nonincendive for use in Class I, Division 2, Groups A, B, C, & D; indoor/ outdoor hazardous (classified) location, utilizing Type 4X enclosure with a Temperature Class T5, Ta = 80°C

This certifies that the equipment described has been found to comply with the following Approval Standards and other documents:

Class 3600	1998
Class 3611	1999
Class 3810	1989
NEMA 250	1991

**JRBS-49SC-8 Series Fieldbus Junction.**

NI / I / 2 / ABCD / T4 Ta = 70°C

NI-ANI / I / 2 / CD / T4 Ta = 70°C — NI-2.401; Rectangular output characteristic-NIFW\*

\*For Nonincendive Field Wiring Parameters, refer to the relevant control drawings.

*Special Conditions of Use:*

- 1) *When using a Division 2 wiring methods as defined by the NEC® other than nonincendive field wiring, then this Fieldbus Junction may be installed in Group A/ B areas.*
- 2) *The Fieldbus Junction shall be installed in a tool secured enclosure in compliance with the mounting, spacing and segregation requirements of the ultimate application.*

**JRBS-49SC-aR Series Fieldbus Junction**

NI / I / 2 / ABCD / T4; -25 °C ≤ Ta ≤ +70 °C

NI-ANI / I / 2 / CD / T4; -25 °C ≤ Ta ≤ +70 °C – NI-2.410; Rectangular output characteristic-NIFW\*

a = Number of spurs: 4, 6, 8, 10, or 12

\*For Nonincendive Field Wiring Parameters, refer to the relevant control drawings.

*Special Conditions of Use:*

- 1) *Shall be installed in compliance with the enclosure, mounting, spacing and segregation requirements of the ultimate application, including a tool removable cover.*
- 2) *When using a Division 2 wiring methods as defined by the NEC® other than nonincendive field wiring, then this Fieldbus Junction may be installed in Group A/B areas.*

**Equipment Ratings:**

Nonincendive for use in a Class I, Division 2, Groups A, B, C, & D Hazardous (Classified) Locations and Nonincendive for use in a Class I, Division 2, Groups C & D Hazardous (Classified) Locations with Nonincendive field wiring. Temperature Class T4, Ta = 70°C



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This certifies that the equipment described has been found to comply with the following Approval Standards and other documents:

Class 3600	1998
Class 3611	2004
Class 3810	2005

FM Approved for:

Turck Inc.  
Plymouth, MN


Original Project ID: 3010019

Approval Granted: March 25, 2002

Subsequent Revision Reports / Date Approval Amended

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3021333	September 14, 2004		
3029339	April 17, 2007		
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3033040	January 26, 2009		

FM Approvals LLC

  
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 J. E. Marquedant  
 Group Manager, Electrical

26 January 2009  
 Date