



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:

Junction Bricks

NI / I / 2 / ABCD / T4 Ta = 80°C; Type 4X – NI-2.401

Model No.	Description
JBBS-25-bdef	Fieldbus junction brick, AS-I, passive
JBBS-25SC-bdef	Fieldbus junction brick, AS-I, short circuit protected
JBBS-25SC-bcdf/SO	Fieldbus junction brick, AS-I, short circuit protected, w/spur shut-off
JBBS-57-bcdf	Fieldbus junction brick, D-Net, passive
JBBS-57-bc0f	Fieldbus junction brick, D-Net, passive
JBBS- a-bcef	Fieldbus junction brick, FF or PA, passive

- a = Bus standard: 48 or 49.
- b = Connector style: E or M.
- c = Number of spurs: 6, or 8
- d = Number of spurs: 4, 6, or 8.
- e = Enclosure material: 1, 2 or 5.
- f = Connector material: 3 or 4.

Special Conditions of Use:

1. All cabling runs must be ITC or PLTC cable types as defined by the NEC® or detailed on control drawing NI-2.401, with the approved lokfast Guard.
2. Use Turck installation drawing NI-2.401 in addition to NEC®

Eurofast Cords

NI / 1 / 2 / ABCD / T4 Ta = 80°C; Type 4X – NI-2.401

Model No.	Description
RKGa cd-eM	Straight female G-body molded cord
RSGa cd-eM	Straight male G-body molded cord
RKCa cd-eM	Straight female E-body molded cord
RSCa cd-eM	Straight male E-body molded cord
RKAa-cdA-eM	Straight female A-body molded cord, armored cable
RSAA-cdA-eM	Straight male A-body molded cord, armored cable

a = Material V or blank
 c = Bus Standard 25, 45, 48, 49 or 57
 d = Cable spec 1-, 2-, or 3-digit alpha-numeric code
 e = cable/lead length in meters

Eurofast Receptacles

NI / 1 / 2 / ABCD / T4 Ta = 80°C; Type 4X – NI-2.401

Model No.	Description
FKa cd-eM/g	Female receptacle, individual leads
FSa cd-eM/g	Male receptacle, individual leads
FKa cdf-eM/g	Female receptacle, individual leads
FSa cdf-eM/g	Male receptacle, individual leads

a = Material V or blank.
 c = Bus Standard 25, 45, 48, 49 or 57.
 d = Cable spec 1-, 2-, or 3-digit alpha-numeric code.
 e = Cable/lead length in meters.
 g = Thread 14.5, 14.75, M20 or blank.

Minifast Cords

NI / 1 / 2 / ABCD / T4 Ta = 80°C; Type 4X – NI-2.401

Model No.	Description
RKb cd-eM	Straight female molded cord
RSb cd-eM	Straight male molded cord
WKb-cd-eM	Right angle female molded cord
WSb cd-eM	Right angle male molded cord
RKbB cd-eM	Straight female molded cord, B-size body
RSbB cd-eM	Straight male molded cord, B-size body

b = Material M or V.
 c = Bus Standard 25, 45, 48, 49 or 57.
 d = Cable spec 1-, 2-, or 3-digit alpha-numeric code.
 e = Cable/lead length in meters.
 f = Cable/lead type T, 0 or blank.
 g = Thread 14.5, 14.75, M20 or blank.

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

Minifast Receptacles

NI / 1 / 2 / ABCD / T4 Ta = 80°C; Type 4X – NI-2.401

Model No.	Description
FKa cd-eM/g	Female receptacle, individual leads
FSa cd-eM/g	Male receptacle, individual leads
FKa cdf-eM/g	Female receptacle, individual leads
FSa cdf-eM/g	Male receptacle, individual leads

- a = Material V or blank.
- b = Material M or V.
- c = Bus Standard 25, 45, 48, 49 or 57.
- d = Cable spec 1-, 2-, or 3-digit alpha-numeric code.
- e = Cable/lead length in meters.
- f = Cable/lead type T, 0 or blank.
- g = Thread 14.5, 14.75, M20 or blank.

Eurofast Ethernet Cords

NI / 1 / 2 / ABCD / T4 Ta = 80°C; Type 4X – NI-2.401

Model No.	Description
RSCa bd-eM	Straight male E-body molded cord
RSCDa cd-eM	Straight male E-body molded D-codecord
RSSa-bd-eM	Straight male shielded E-body molded cord
RSSDa cd-eM	Straight male shielded E-body molded D-code cord
RSSXa 86c-eM	Straight male X-code molded cord

- a = Material V or blank.
- b = Bus Standard 84 or 86.
- c = Bus Standard 42 or 44.
- d = Pinout code, 0, 1, 2, 3, 4 or 5.
- e = Cable/lead length in meters.

Eurofast Ethernet Receptacles

NI / 1 / 2 / ABCD / T4 Ta = 80°C; Type 4X – NI-2.401

Model No.	Description
FKDDa 44-eM	Female receptacle, front panel, 4 conductor
FKFDDa cd-eM	Female receptacle, back panel, 4-conductor
FKFDa bd-eM	Female receptacle, back panel, 8-conductor

- a = Material V or blank.
- b = Bus Standard 84 or 86.
- c = Bus Standard 42 or 44.
- d = Pinout code, 0, 1, 2, 3, 4 or 5.
- e = Cable/lead length in meters.

Eurofast Field-Wireable Connectors

NI / I / 2 / ABCD / T4 Ta = 80°C; Type 4X – NI-2.401

Model No.	Description
B81e1-0/c/d	Female straight connector
BKa81e0-0/c/d	Female straight connector
B82e1-0/c/d	Female right angle connector
BKa82e0-0/c/d	Female right angle connector
BS81e1-0/c/d	Male straight connector
BSa81e0-0/c/d	Male straight connector
BS82e1-0/c/d	Male right angle connector
BSa82e0-0/c/d	Male right angle connector

- a = Material V or blank.
- c = Cable size accommodated.
- d = Bus standard ASI, DNET, PA, PDP or blank.
- e = Number of contacts 4 or 5.

Minifast Field-Wireable Connectors

NI / I / 2 / ABCD / T4 Ta = 80°C; Type 4X – NI-2.401

Model No.	Description
B41b1-0/c/d	Female straight connector
BKa41b0-0/c/d	Female straight connector
B42b1-0/c/d	Female right angle connector
BKa42b0-0/c/d	Female right angle connector
BS41b1-0/c/d	Male straight connector
BSa41b0-0/c/d	Male straight connector
BS42b1-0/c/d	Male right angle connector
BSa42b0-0/c/d	Male right angle connector

- a = Material V or blank.
- b = Number of contacts 2-6.
- c = Cable size accommodated.
- d = Bus standard ASI, DNET, PA, PDP or blank.
- e = Number of contacts 4 or 5.

Lokfast Guards

NI / I / 2 / ABCD / T4 Ta = 80°C; Type 4X – NI-2.401

Model No.	Description
SHLD-Euro	Locking guard for straight E-body eurofast connectors
SHLD-Mini	Locking guard for straight A-size minifast connectors
Lock-Euro-FW	Locking guard for eurofast field wireable connectors
Lock-Mini-FW	Locking guard for minifast field wireable connectors
Lock-Euro-G	Locking guard for G-body eurofast molded connectors
Lock-Mini-Angle	Locking guard for right angle A-size minifast molded connectors

Equipment Ratings:

Nonincendive for use in Class I, Division 2, Groups A, B, C, & D; indoor/outdoor hazardous (classified) locations, utilizing Type 4X enclosure



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JBBS-49SC-abcd. Junction Brick.

JBBS-48SC-abcd. Junction Brick.

NI-ANI / 1 / 2 / CD / T6 Ta = 70°C – NI-2.401; NIFW; Type 4X

Nonincendive Field Wiring Parameters:

Rectangular Characteristic

V_{oc} = 30 V I_{sc} = 63 mA P_o = 1.89W C_a = 0.06 μF L_a = 1 mH

Or
V_{oc} = 28 V I_{sc} = 63 mA P_o = 1.76W C_a = 0.1 μF L_a = 1 mH

- a = Connector style: E or M.
- b = Number of spurs: 4, 6 or 8.
- c = Enclosure material: 1, 2 or 5.
- d = 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 ITC or PLTC cable types as defined by the NEC® or detailed on control drawing NI-2.401, with the approved lokfast Guard.*

JRBS-49SC-8 Series Fieldbus Junction.

NI / 1 / 2 / ABCD / T4 Ta = 70°C

NI-ANI / 1 / 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 / 1 / 2 / ABCD / T4; -25 °C ≤ Ta ≤ +70 °C

NI-ANI / 1 / 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 Class I, Division 2, Groups A, B, C, & D; indoor/outdoor hazardous (classified) locations, utilizing Type 4X enclosure and Nonincendive field wiring with connection to Class I, Division 2, Groups C & D hazardous (classified) locations in accordance with control drawing NI-2.401 or NI-2.410

FM Approved for:

Turck Inc
Plymouth, MN

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



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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	2011
Class 3611	2004
Class 3810	2005
NEMA 250	1991

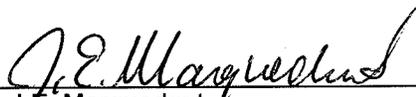
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Report Number	Date	Report Number	Date
3014899	March 12, 2003		
3021333	September 14, 2004		
3029339	April 17, 2007		
3031562	January 28, 2008		
3033040	January 26, 2009		
3040139	June 30, 2010		
120607	July 19, 2012		
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FM Approvals LLC



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25 October 2013

 Date