



IECEX Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification System for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.: **IECEX FMG 16.0032X**

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Certificate history:

Status: **Current**

Issue No: 5

Issue 4 (2021-10-21)

Issue 3 (2020-04-07)

Issue 2 (2018-12-13)

Issue 1 (2017-08-18)

Issue 0 (2016-11-21)

Date of Issue: 2021-12-09

Applicant: **Turck Inc.**
3000 Campus Drive
Plymouth, MN 55441
United States of America

Equipment: **Minifast Process Wiring System**

Optional accessory:

Type of Protection: **Nonsparking "nA"; increased safety 'ec' and "eb"**

Marking: Ex nA T5 IIC Gc Ta = -40°C to 70°C - NI-2.422

Ex ec T5 IIC Gc Ta = -40°C to 70°C - NI-2.422

Ex eb T5 IIC Gb Ta = -40°C to 70°C - NI-2.422

Approved for issue on behalf of the IECEx
Certification Body:

J.E. Marquedant

Position:

VP, Manager - Electrical Systems

Signature:
(for printed version)

Date:

1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting www.iecex.com or use of this QR Code.



Certificate issued by:

FM Approvals LLC
1151 Boston-Providence Turnpike
Norwood, MA 02062
United States of America





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Manufacturer: **Turck Inc.**
3000 Campus Drive
Plymouth, MN 55441
United States of America

Additional
manufacturing
locations:

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEX Quality system requirements. This certificate is granted subject to the conditions as set out in IECEX Scheme Rules, IECEX 02 and Operational Documents as amended

STANDARDS :

The equipment and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards

[IEC 60079-0:2017](#) Explosive atmospheres - Part 0: Equipment - General requirements
Edition:7.0

[IEC 60079-15:2010](#) Explosive atmospheres - Part 15: Equipment protection by type of protection "n"
Edition:4

[IEC 60079-7:2015](#) Explosive atmospheres – Part 7: Equipment protection by increased safety "e"
Edition:5.0

This Certificate **does not** indicate compliance with safety and performance requirements other than those expressly included in the Standards listed above.

TEST & ASSESSMENT REPORTS:

A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in:

Test Reports:

[US/FMG/ExTR16.0035/00](#)
[US/FMG/ExTR16.0035/03](#)

[US/FMG/ExTR16.0035/01](#)
[US/FMG/ExTR16.0035/04](#)

[US/FMG/ExTR16.0035/02](#)
[US/FMG/ExTR16.0035/05](#)

Quality Assessment Report:

[GB/BAS/QAR16.0015/03](#)



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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

A-Size Minifast Cords

Ex nA IIC T5 Gc -40°C to +70°C; NI-2.422

Ex ec IIC T5 Gc -40°C to +70°C; NI-2.422

| Model No. | Description |
|----------------------|--|
| P-Xa-RKVZ bc-de-fMg | Female A-size cord with 7/8" coupling thread, standard |
| P-Xa-RKVBZ bc-de-fMg | Female A-size cord with 7/8" coupling thread, large diameter |
| P-Xa-RSVZ bc-de-fMg | Male A-size cord with 7/8" coupling thread, standard |
| P-Xa-RSVBZ bc-de-fMg | Male A-size cord with 7/8" coupling thread, large diameter |

a = Approval Code: 1 or blank

b = Number of Conductors: 2, 3, 4, 5, or 6

c = Pinout: 0-9, 00-09, 10-99

d = Cable Type: 3- or 4-digit number

e = Cable Option: XL or blank

f = Lead/Cable Length

g = Accessory Option: /S1331, /S1599, /S3400, or blank

A-Size Minifast Cords

Ex nA IIC T5 Gc -40°C to +70°C; NI-2.422

Ex ec IIC T5 Gc -40°C to +70°C; NI-2.422

Ex eb IIC T5 Gb -40°C to +70°C; NI-2.422

| Model No. | Description |
|----------------------|--|
| P-Xa-RKVZ bc-de-fMg | Female A-size cord with 7/8" coupling thread, standard |
| P-Xa-RKVBZ bc-de-fMg | Female A-size cord with 7/8" coupling thread, large diameter |
| P-Xa-RSVZ bc-de-fMg | Male A-size cord with 7/8" coupling thread, standard |
| P-Xa-RSVBZ bc-de-fMg | Male A-size cord with 7/8" coupling thread, large diameter |

a = Approval Code: 1 or blank

b = Number of Conductors: 2, 3, or 4

c = Pinout: 0-9, 00-09, 10-99

d = Cable Type: 3- or 4-digit number

e = Cable Option: XL or blank

f = Lead/Cable Length

g = Accessory Option: /S1331, /S1599, /S3400, or blank

B-Size Minifast Cords

Ex nA IIC T5 Gc -40°C to +70°C; NI-2.422

Ex ec IIC T5 Gc -40°C to +70°C; NI-2.422

| Model No. | Description |
|---------------------|--|
| P-Xa-RKVZ bc-de-fMg | Female B-size cord with 1" coupling thread |
| P-Xa-RSVZ bc-de-fMg | Male B-size cord with 1" coupling thread |

a = Approval Code: 1 or blank

b = Number of Conductors: 7 or 8

c = Pinout: 0-9, 00-09, 10-99

d = Cable Type: 4-digit number

e = Cable Option: XL or blank

f = Lead/Cable Length

g = Accessory Option: /S1331, /S1599, /S3400, or blank

SPECIFIC CONDITIONS OF USE: YES as shown below:

1. The Lokfast guards present a potential electrostatic charging hazard. Clean only with a damp cloth.
2. Elevated ambient temperatures are permitted for specific configurations per control drawing NI-2.422.



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Equipment (continued):

C-Size Minifast Cords

Ex nA IIC T5 Gc -40°C to +70°C; NI-2.422

Ex ec IIC T5 Gc -40°C to +70°C; NI-2.422

| Model No. | |
|---------------------|--|
| P-Xa-RKVZ bc-de-fMg | Female C-size cord with 1 1/8" coupling thread |
| P-Xa-RSVZ bc-de-fMg | Male C-size cord with 1 1/8" coupling thread |

a = Approval Code: 1 or blank

b = Number of Conductors: 9, 10, 12, or 19

c = Pinout: 0-9, 00-09, 10-99

d = Cable Type: 4-digit number

e = Cable Option: XL or blank

f = Lead/Cable Length

g = Accessory Option: /S1331, /S1599, /S3400, or blank

A-Size Minifast Receptacles Ex nA IIC T5 Gc -40°C to +70°C; NI-2.422

Ex ec IIC T5 Gc -40°C to +70°C; NI-2.422

IE ex IIC T5 Gc -40°C to +70°C; NI-2.422

| Model No. | Description |
|-------------------|---|
| P-X-RaFV bcd-e/fg | A-size receptacle with 7/8" coupling thread |

a = K (female) or S (male)

b = Number of Conductors: 2, 3, 4, 5, or 6

c = Pinout: 0-9, 00-09, 10-99

d = Drain connected: D or blank

e = Lead/Cable Length

f = Entry Thread: 14.5/NPT, 14.75/NPT, M20 or M20/S3526

g = Accessory Option: /S1331, /S1599, /S3400, or blank

A-Size Minifast Receptacles Ex nA IIC T5 Gc -40°C to +70°C; NI-2.422

Ex ec IIC T5 Gc -40°C to +70°C; NI-2.422

IE ex IIC T5 Gb -40°C to +70°C; NI-2.422

| Model No. | Description |
|-------------------|---|
| P-X-RaFV bcd-e/fg | A-size receptacle with 7/8" coupling thread |

a = K (female) or S (male)

b = Number of Conductors: 2, 3, or 4

c = Pinout: 0-9, 00-09, 10-99

d = Drain connected: D or blank

e = Lead/Cable Length

f = Entry Thread: 14.5/NPT, 14.75/NPT, M20 or M20/S3526

g = Accessory Option: /S1331, /S1599, /S3400, or blank

B-Size Minifast Receptacles

Ex nA IIC T5 Gc -40°C to +70°C; NI-2.422

Ex ec IIC T5 Gc -40°C to +70°C; NI-2.422

| Model No. | Description |
|-------------------|---|
| P-X-RaFV bcd-e/fg | B-size receptacle with 1" coupling thread |

a = K (female) or S (male)

b = Number of Conductors: 7 or 8

c = Pinout: 0-9, 00-09, 10-99

d = Drain connected: D or blank

e = Lead/Cable Length

f = Entry Thread: 14.5/NPT, 14.75/NPT, M20 or M20/S3526

g = Accessory Option: /S1331, /S1599, /S3400, or blank



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C-Size Minifast Receptacles

Ex nA IIC T5 Gc -40°C to +70°C; NI-2.422

Ex ec IIC T5 Gc -40°C to +70°C; NI-2.422

| Model No. | Description |
|-------------------|---|
| P-X-RaFV bcd-e/fg | C-size receptacle with 1 1/8" coupling thread |

a = K (female) or S (male)

b = Number of Conductors: 9, 10, 12 or 19

c = Pinout: 0-9, 00-09, 10-99

d = Drain connected: D or blank

e = Lead/Cable Length

f = Entry Thread: 14.5/NPT, 14.75/NPT, M20 or M20/S3526

g = Accessory Option: /S1331, /S1599, /S3400, or blank

Minifast Junction Box

Ex nA IIC T5 Gc -40°C to +70°C; NI-2.422

Ex ec IIC T5 Gc -40°C to +70°C; NI-2.422

| Model No. | Description |
|--|--|
| P-X-a-b-c RdFVef [c RdFVef]* [c RdFVef]* - RdFVgfh | Minifast ports, A-, B-, or C-size home-run connector |

*additional port number/type description groups when all ports are not identical

a = Enclosure material: SS or blank

b = Total number of ports 3, 4, 5, 6, 7 or 8

c = Number of ports of a given type if all ports are not identical: -1, -2, -3, -4, -5, -6, -7 or blank

d = Port connector gender: K or S

e = Number of port connector conductors: 2, 3, 4, 5, 6, 7, or 8

f = Wiring option: 0, 1, 2, 3, . . . 9, 01, 02, 03, . . . 99

g = Home-run connector conduit count: 4, 5, 6, 7, 8, 9, 10, 12 or 19.

h = Accessory Option: /S1331, /S1599, or blank

Field Wireable Front Panel Mount Receptacles

Ex nA IIC T5 Gc -40°C to 70°C (< 90°C with I < 600mA); NI-2.425

Ex ec IIC T5 Gc -40°C to +70°C (< 90°C with I < 600mA) ; NI-2.422

| Model No. | Description |
|---------------------------------------|---|
| 081-004-293 or P-X-RSFV 126/Flange | Field Wireable Front Panel Mount Receptacle |



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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

Minor documentation update.