



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 TUN 14.0035X | Page 1 of 4 | <u>Certificate history:</u> Issue 3 (2018-10-12) Issue 2 (2016-01-29) Issue 1 (2015-05-20) Issue 0 (2014-11-14) |
| Status: | Current | Issue No: 4 | |
| Date of Issue: | 2019-10-29 | | |
| Applicant: | WAGO Kontakttechnik GmbH & Co. KG Hansastraße 27 32423 Minden Germany | | |
| Equipment: | WAGO-I/O-SYSTEM * 7 5 0 - **** / * | | |
| Optional accessory: | | | |
| Type of Protection: | Equipment protection by increased safety "e" and Type of protection "nC" | | |
| Marking: | Ex ec nC IIC T4 Gc for the module 750-515 4RO 250VAC 2A Pot-free Relay4NO and the module 750-669/000-003 (4FDI/ 4FRO 24V/ 6A PROFIsafe V2 IPair) Ex ec IIC T4 Gc for each other modules mentioned in electrical data | | |

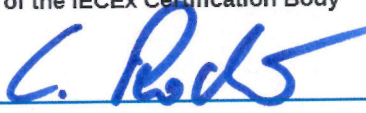
Approved for issue on behalf of the IECEx
Certification Body:

Christian Roder

Position:

Head of the IECEx Certification Body

Signature:
(for printed version)



2019-10-29

Date:

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Hanover Office
Am TÜV 1, 30519 Hannover
Germany





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Date of issue: 2019-10-29

Issue No: 4

Manufacturer: **WAGO Kontakttechnik GmbH & Co. KG**
Hansastraße 27
32423 Minden
Germany

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 60079-15:2017 Explosive atmospheres - Part 15: Equipment protection by type of protection "n"
Edition:5.0

IEC 60079-7:2017 Explosive atmospheres - Part 7: Equipment protection by increased safety "e"
Edition:5.1

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 Report:

[DE/TUN/ExTR14.0046/04](#)

Quality Assessment Report:

[DE/PTB/QAR06.0003/11](#)



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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

General product information

Description:

The WAGO-I/O-SYSTEM * 7 5 0 - **** / * is a modular, fieldbus-independent input/output system (I/O system). Fieldbus couplers/controllers are provided with a fieldbus interface, power electronics and an integrated supply module. The fieldbus interface forms the physical interface to the respective fieldbus system. The power electronics processes data from the I/O modules and makes it available for fieldbus communication. The 24V system power and 24V field supply are fed in via the integrated supply module.

The fieldbus coupler/controller communicates over the respective fieldbus. The controllers also enable implementation of PLC functions. Programming is conducted using e!COCKPIT based on the programming language in accordance with IEC 61131-3

I/O modules can be connected in series to the fieldbus couplers/controllers for various digital and analog input and output signals and for special functions. An internal data bus (K-bus) is used for communication between fieldbus couplers/controllers and I/O modules.

Type code:

WAGO-I/O-SYSTEM z750-z3xx/ * Fieldbus coupler
WAGO-I/O-SYSTEM z75y-z4xx/ * Digital/Analog Input Modules
WAGO-I/O-SYSTEM z75y-z5xx/ * Digital/Analog Output Modules
WAGO-I/O-SYSTEM z75y-z6xx/ * Communication supply and segment Modules
WAGO-I/O-SYSTEM z750-z8xx/ * Fieldbus controller
WAGO-I/O-SYSTEM z750-8xxx/ * Controller PFC

z: can be optional alphanumerical digit

y: can be 0 or 3

x: can be any alphanumerical digit

/ *: can be optional suffix extension. This consists of up to 16 digits / ****_****/ ****_****. The suffix extension means a variant which doesn't have any influence on explosion proof characteristics.

*: can be any alphanumerical digit

Electrical and thermal data:

See attachment to IECEX TUN 14.0035X issue 04

SPECIFIC CONDITIONS OF USE: YES as shown below:

1. The modules WAGO-I/O-SYSTEM *750-****/* have to be installed in a suitable housing according to IEC 60079-7:2015/A1:2017 resp. IEC 60079-15:2017 in such a way, that a degree of protection of at least IP 54 according to IEC 60529 is reached.
2. The modules have to be erected in such a way that a pollution degree 2 or less, according to IEC 60664-1, is achieved.
3. Measures have to be taken, external to the modules, to provide a transient protection that ensures that the rated voltage, connected to the power supply terminals, is not exceeded by more than 40 %.
4. The connecting and disconnecting of all pluggable connection (Fieldbus; CAN; SD card) are permitted only in a non-hazardous area. In normal operation the socket of pluggable USB does not have a plug inserted.
5. The ambient temperature range is $0\text{ }^{\circ}\text{C} \leq T_a \leq +60\text{ }^{\circ}\text{C}$ The ambient temperature range for modules with suffix extension / **25-**** is: $-20\text{ }^{\circ}\text{C} \leq T_a \leq +60\text{ }^{\circ}\text{C}$
6. The following warnings must be placed nearby the modules:

WARNING-DO NOT CONNECT OR DISCONNECT WHEN ENERGIZED

WARNING-CONNECT OR DISCONNECT ONLY IN A NON-HAZARDOUS AREA



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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

Extension of the fieldbus couplers/controllers resp. analog input/output modules resp. digital output modules and communication supply and segment modules WAGO-I/O-SYSTEM *750-****/* to the following additional versions:

| Item number | Short description |
|--|---|
| Fieldbus Couplers | |
| 750-325 | CC-Link Coupler |
| 750-332 | FC BACnet/IP G4 2ETH SD |
| Digital Input Modules | |
| - | - |
| Digital Output Modules | |
| 750-508/020-001 | 2DO 24V DC 2.0A, 30K WB |
| Analog input modules | |
| 750-471 | 4AI U/I Diff, PotFree |
| 750-482/000-001 | 2AI 4-20mA HART NE43 |
| 750-497 | 8AI 0-10V/ ±10V S.E. |
| Analog Output Modules | |
| 750-564 | 4AO U/I |
| 750-597 | 8AO 0-10V/ ±10V S.E. |
| Communication, Supply and Segment Modules | |
| 750-668/000-004 | 4FAI 0/4-20mA Diff PROFIsafe |
| 750-669/000-003 | 4FDI/ 4FRO 24V/ 6A PROFIsafe V2 iPar |
| Fieldbus Controllers | |
| 750-832 | Controller BACnet/IP G4 2ETH SD |
| Controller PFC | |
| 750-8207 | PFC200 CS 2ETH RS 3G - WAGO-I/O-PRO + e!COCKPIT |

Proof of conformity of the fieldbus couplers/controllers resp. analog input/output modules resp. digital input/output modules and communication supply and segment modules type WAGO-I/O-SYSTEM *750-****/* to the current versions of the IEC standards IEC 60079-0:2017, IEC 60079-7:2015/A1:2017 and IEC 60079-15:2017 and issuing of certificate of conformity IECEX TUN14.0035X issue 04.

Annex:

[Attachment to IECEX TUN 14.0035X _04.pdf](#)

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Product:

Description:

The WAGO-I/O-SYSTEM *750-****/* is a modular, fieldbus-independent input/output system (I/O system). Fieldbus couplers/controllers are provided with a fieldbus interface, power electronics and an integrated supply module. The fieldbus interface forms the physical interface to the respective fieldbus system. The power electronics processes data from the I/O modules and makes it available for fieldbus communication. The 24V system power and 24V field supply are fed in via the integrated supply module.

The fieldbus coupler/controller communicates over the respective fieldbus. The controllers also enable implementation of PLC functions. Programming is conducted using e!COCKPIT based on the programming language in accordance with IEC 61131-3.

I/O modules can be connected in series to the fieldbus couplers/controllers for various digital and analog input and output signals and for special functions. An internal data bus (K-bus) is used for communication between fieldbus couplers/controllers and I/O modules.

Type code:

WAGO-I/O-SYSTEM z750-z3xx/* Fieldbus coupler
WAGO-I/O-SYSTEM z75y-z4xx/* Digital/Analog Input Modules
WAGO-I/O-SYSTEM z75y-z5xx/* Digital/Analog Output Modules
WAGO-I/O-SYSTEM z75y-z6xx/* Communication supply and segment Modules
WAGO-I/O-SYSTEM z750-z8xx/* Fieldbus controller
WAGO-I/O-SYSTEM z750-8xxx/* Controller PFC

z: can be optional alphanumerical digit

y: can be 0 or 3

x: can be any alphanumerical digit

/*: can be optional suffix extension. This consists of up to 16 digits /****-****/****-****. The suffix extension means a variant which doesn't have any influence on explosion proof characteristics.

*: can be any alphanumerical digit

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Details of Change:

Extension of the fieldbus couplers/controllers resp. analog input/output modules resp. digital output modules and communication supply and segment modules WAGO-I/O-SYSTEM *750-****/* to the following additional versions:

| Item number | Short description |
|--|---|
| Fieldbus Couplers | |
| 750-325 | CC-Link Coupler |
| 750-332 | FC BACnet/IP G4 2ETH SD |
| Digital Input Modules | |
| - | - |
| Digital Output Modules | |
| 750-508/020-001 | 2DO 24V DC 2.0A, 30K WB |
| Analog input modules | |
| 750-471 | 4AI U/I Diff, PotFree |
| 750-482/000-001 | 2AI 4-20mA HART NE43 |
| 750-497 | 8AI 0-10V/ ±10V S.E. |
| Analog Output Modules | |
| 750-564 | 4AO U/I |
| 750-597 | 8AO 0-10V/ ±10V S.E. |
| Communication, Supply and Segment Modules | |
| 750-668/000-004 | 4FAI 0/4-20mA Diff PROFIsafe |
| 750-669/000-003 | 4FDI/ 4FRO 24V/ 6A PROFIsafe V2 iPar |
| Fieldbus Controllers | |
| 750-832 | Controller BACnet/IP G4 2ETH SD |
| Controller PFC | |
| 750-8207 | PFC200 CS 2ETH RS 3G - WAGO-I/O-PRO + e!COCKPIT |

Proof of conformity of the fieldbus couplers/controllers resp. analog input/output modules resp. digital input/output modules and communication supply and segment modules type WAGO-I/O-SYSTEM *750-****/* to the current versions of the IEC standards IEC 60079-0:2017; IEC 60079-7:2015/A1:2017 and IEC 60079-15:2017 and issuing of certificate of conformity IECEx TUN14.0035X issue 04.

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Electrical data:

Additionally assessed modules within the IECEx TUN 14.0035 X issue 4

| Input | Power jumper contacts | Interface | Internal K-Bus | ΣP_v [W] |
|---|---|--|---|------------------|
| 750-325 (CC-Link Coupler) Ex ec IIC T4 Gc | | | | |
| Terminals: 1, 5 Un[V _{DC}] = 24 In[A] = 0.6 (@ 24V) | Terminals: 2, 3, 6, 7 Un[V _{DC}] = 24 In[A] = 10 | MCS Un[V _{DC}]=±2.5 | Un[V _{DC}]= 5 In[A] = 0.2 Σ In[A] = 1.8 | 3.5 |
| 750-332 (FC BACnet/IP G4 2ETH SD) Ex ec IIC T4 Gc | | | | |
| Terminals: 1, 5 Un[V _{DC}] = 24 In[A] = 0.5 (@ 24V) | Terminals: 2, 3, 6, 7 Un[V _{DC}] = 24 In[A] = 10 | X1, X2 Ethernet Un[V _{DC}]=±2.5 | Un[V _{DC}]= 5 In[A] = 0.45 Σ In[A] = 1.7 | 3.8 |
| 750-471 (4AI U/I Diff, PotFree) Ex ec IIC T4 Gc | | | | |
| | Terminals: Un[V _{DC}] = 24 In[A] = 10 | Terminals: 1 - 8 In[mA] = 0 - 20 R _{input} [Ω]= 130 | Un[V _{DC}]= 5 In[mA] = 100 | 0.7 |
| 750-482/000-001 (2AI 4-20mA HART NE43) Ex ec IIC T4 Gc | | | | |
| | Terminals: Un[V _{DC}] = 24 In[mA] = 26+Load In[A] = 10 | Terminals: 1, 5, 3, 7 In[mA] = 0 - 21 | Un[V _{DC}]= 5 In[mA] = 25 | 1.6 |
| 750-497 (8AI 0-10V/ ±10V S.E.) Ex ec IIC T4 Gc | | | | |
| | Terminals: Un[V _{DC}] = 24 In[A] = 10 | Terminals: 1 - 8 Un[V] = ±10 R _{input} [kΩ]= >100 | Un[V _{DC}]= 5 In[mA] = 105 | 0.6 |
| 750-508/020-001 (2DO 24V DC 2.0A,30K WB) Ex ec IIC T4 Gc | | | | |
| | Terminals: 2, 3, 6, 7 Un[V _{DC}] = 24 In[mA] = 7+Load In[A] = 10 | Terminals: 1, 5 In[A] = 2 | Un[V _{DC}]= 5 In[mA] = 14 | 0.9 |
| 750-564 (4AO U/I) Ex ec IIC T4 Gc | | | | |
| | Terminals: Un[V _{DC}] = 24 In[mA] = 80+Load In[A] = 10 | Terminals: 1, 5 In[mA] = ±22 Un[V] = ±10 | Un[V _{DC}]= 5 In[mA] = 55 | 1.4 |
| 750-597 (8AO 0-10V/ ±10V S.E.) Ex ec IIC T4 Gc | | | | |
| | Terminals: Un[V _{DC}] = 24 In[mA] = 72 In[A] = 10 | Terminals: 1, 5 Un[V] = ±11 R _{input} [kΩ]= >2 | Un[V _{DC}]= 5 In[mA] = 61 | 1.6 |

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| | | | | | |
|--|---------------------------|------------------------------|-----------------------------|-------------------------|-----|
| 750-668/000-004 (4FAI 0/4-20mA Diff PROFIsafe) Ex ec IIC T4 Gc | | | | | |
| | Terminals: 1 - 8 | Terminals: 1, 5 | Un[V _{DC}]= 5 | 2.2 | |
| Un[V _{DC}] = 24 | Un[V _{DC}] = 24 | In[mA] = 0 - 20 | In[mA] = 120 | | |
| In[mA] = 40+Load | In[A] = 10 | R _{input} [Ω]= <300 | | | |
| 750-669/000-003 (4FDI/ 4FRO 24V/ 6A PROFIsafe V2 iPar) Ex ec nC IIC T4 Gc | | | | | |
| Terminals 17, 18 | | Terminals: 1 - 8 Input | Un[V _{DC}]= 5 | 4.5 | |
| Un[V _{DC}] = 24 | | In[mA] = 2.2 | In[mA] = 145 | | |
| In[mA] = 50+Load | | Terminals: 9 - 16 Output | | | |
| | | Un[V] = AC30, DC60 | | | |
| | | In[A] = 6 | | | |
| 750-832 Controller BACnet/IP G4 2ETH SD Ex ec IIC T4 Gc | | | | | |
| Terminals: 1, 5 | Terminals: 2, 3, 6, 7 | X1, X2 Ethernet | Un[V _{DC}]=±2.5 | Un[V _{DC}]= 5 | 3.8 |
| Un[V _{DC}] = 24 | Un[V _{DC}]= 24 | | | In[A] = 0.45 | |
| In[A] = 0.5 (@ 24V) | In[A] = 10 | | | ∑ In[A] = 1.7 | |
| 750-8207 PFC200 CS 2ETH RS 3G - WAGO-I/O-PRO + e!COCKPIT Ex ec IIC T4 Gc | | | | | |
| Terminals: 1, 5 | Terminals: 2, 3, 6, 7 | X1, X2 Ethernet | Un[V _{DC}] = ±2.5 | Un[V _{DC}]= 5 | 5.0 |
| Un[V _{DC}] = 24 | Un[V _{DC}] = 24 | X3 RS 232/485 | Un[V _{DC}] = 15 | In[A] = 0.6 | |
| In[A] = 0.55 (@ 24V) | In[A] = 10 | GSM/Edge/UMTS/HSPA+ | | ∑ In[A] = 0.7 | |

Already assessed modules within the IECEx TUN 14.0035 X issue 0, 1, 2 and 3

| Input | Power jumper contacts | Interface | Internal K-Bus | ∑ P _v [W] |
|--|-----------------------|-----------------|-----------------------------|--------------------------|
| 750-354/000-001 (EtherCAT Coupler, ID-Switch) Ex ec IIC T4 Gc | | | | |
| Terminals: X3 | | X1, X2 Ethernet | Un[V _{DC}]= ±2.5 | Un[V _{DC}]= 5 |
| Un[V _{DC}] = 24 | | | | In[A] = 0.3 |
| In[A] = 0.25 (@ 24V) | | | | ∑ In[A] = 1 |
| 750-362 G4 Ethernet Coupler 2ETH Ex ec IIC T4 Gc | | | | |
| Terminals: X3 | | X1, X2 Ethernet | Un[V _{DC}] = ±2.5 | Un[V _{DC}] = 5 |
| Un[V _{DC}] = 24 | | | | In[A] = 0.45 |
| In[A] = 0.28 (@ 24V) | | | | ∑ In[A] = 0.7 |
| 750-363 G4 Ethernet/IP Coupler 2ETH Ex ec IIC T4 Gc | | | | |
| Terminals: X3 | | X1, X2 Ethernet | Un[V _{DC}] = ±2.5 | Un[V _{DC}] = 5 |
| Un[V _{DC}] = 24 | | | | In[A] = 0.45 |
| In[A] = 0.28 (@ 24V) | | | | ∑ In[A] = 0.7 |

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|--|---------------------------|--|----------------------------|--------------------------|-----|
| 750-375 (PROFINET IO Coupler adv. 2-Port) Ex ec IIC T4 Gc | | | | | |
| Terminals: 1, 5 | Terminals: 2, 3, 6, 7 | X1, X2 Ethernet | Un[V _{DC}]= ±2.5 | Un[V _{DC}]= 5 | 3.5 |
| Un[V _{DC}] = 24 | Un[V _{DC}] = 24 | | | In[A] = 0.45 | |
| In[A] = 0.5 (@ 24V) | In[A] = 10 | | | ∑ In[A] = 1.7 | |
| 750-377 (PROFINET IO Coupler adv. ECO 2-Port) Ex ec IIC T4 Gc | | | | | |
| Terminals: X3 | | X1, X2 Ethernet | Un[V _{DC}]= ±2.5 | Un[V _{DC}]= 5 | 2.9 |
| Un[V _{DC}] = 24 | | | | In[A] = 0.45 | |
| In[A] = 0.28 (@ 24V) | | | | ∑ In[A] = 0.7 | |
| 750-450 (4AI RTD, configurable) Ex ec IIC T4 Gc | | | | | |
| | | Terminals: 1 – 16 | | Un[V _{DC}]= 5 | 0.4 |
| | Un[V _{DC}] = 24 | For the connection to the Pt-, Ni- or resistance sensors | | In[A] = 0.085 | |
| | In[A] = 10 | | | | |
| 750-451 (8AI RTD, configurable) Ex ec IIC T4 Gc | | | | | |
| | | Terminals: 1 - 16 | | Un[V _{DC}]= 5 | 0.6 |
| | Un[V _{DC}] = 24 | For the connection to the Pt-, Ni- or resistance sensors | | In[A] = 0.110 | |
| | In[A] = 10 | | | | |
| 750-455/020-000 (4 AI 4-20mA) Ex ec IIC T4 Gc | | | | | |
| | Terminals: 2, 4, 6, 8 | Terminals: 1, 3, 5, 7 | | Un[V _{DC}] = 5 | 0.5 |
| | Un[V _{DC}] = 24 | In[mA] = 0 - 20 | | In[mA] = 65 | |
| | In[A] = 10 | R _{input} [Ω]= 100 | | | |
| 750-458 (8AI TC/ Diagn./ adj) Ex ec IIC T4 Gc | | | | | |
| | | Terminals: 1 - 16 | | Un[V _{DC}]= 5 | 0.5 |
| | Un[V _{DC}] = 24 | For the connection to the Thermocouple | | In[A] = 0.100 | |
| | In[A] = 10 | | | | |
| 750-494/000-005 (3-Phase Power Measurement Shunt) Ex ec IIC T4 Gc | | | | | |
| | | Terminals: 1 - 8 | | Un[V _{DC}] = 5 | 1 |
| | | Un[V _{AC}] = 277 | | In[A] = 0.1 | |
| | | External Shunt | | | |
| 750-496 8AI 0/4-20mA Ex ec IIC T4 Gc | | | | | |
| | | Terminals: 1 – 16 | | Un[V _{DC}]= 5 | 1.5 |
| | Un[V _{DC}] = 24 | 8Channel 0/4 - 20mA R _{input} [Ω]= 220 | | In[A] = 0.069 | |
| | In[A] = 10 | | | | |
| 750-515 4RO 250VAC 2A Pot-free Relay4NO Ex ec nC IIC T4 Gc | | | | | |
| | | Terminals: 1 – 8 | | Un[V _{DC}]= 5 | 1.1 |
| | | 4Channel Relay 250V _{AC} /30V _{DC} 2A | | In[A] = 0.095 | |
| | | | | | |

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|---|--|--|--------------------------|-----|
| 750-657 (4-Channel IO-Link Master) Ex ec IIC T4 Gc | | | | |
| | Terminals: 2 - 5, 7, 8, 10 - 13, 15, 16 | Terminals: 1, 6, 9, 14 | Un[V _{DC}]= 5 | 1.2 |
| | Un[V _{DC}] = 24 | IO-Link Devices | In[A] = 0.40 | |
| | In[A] = 10 | | | |
| 750-632, 750-632/000-001 (Proportional Valve Module) Ex ec IIC T4 Gc | | | | |
| | Terminals: 2,4,8,10,12, 3,5,11,13,16 | DI Terminals: 1, 9 Un[V _{DC}] = 24 In[mA]=2.7 | Un[V _{DC}]= 5 | 2.2 |
| | Un[V _{DC}] =24 | DO Terminals: 6, 7, 14, 15 1.ch.op. In[A] = 1.4 2.ch.op. In[A] = 0.8 | In[mA] = 125 | |
| 750-658 (CAN Gateway) Ex ec IIC T4 Gc | | | | |
| | Terminals: 3, 6 | Terminals: 1, 2, 5 | Un[V _{DC}]= 5 | 0.6 |
| | Un[V _{DC}] = 24 | CAM-Devices | In[A] = 0.50 | |
| | In[A] = 10 | | | |
| 750-1425 (8DI PTC) Ex ec IIC T4 Gc | | | | |
| | | Terminals: 1 - 16, | Un[V _{DC}]= 5 | 0.3 |
| | Un[V _{DC}] = 24 | For the connection to a | In[A] = 0.52 | |
| | In[A] = 10 | Pt-sensors | | |
| 750-823 G4 Ethernet/IP ECO Controller 2ETH Ex ec IIC T4 Gc | | | | |
| | Terminals: X3 | X1, X2 Ethernet Un[V _{DC}]=±2.5 | Un[V _{DC}]= 5 | 3.3 |
| | Un[V _{DC}] = 24 | | In[A] = 0.4 | |
| | In[A] = 0.5 (@ 24V) | | ∑ In[A] = 0.7 | |
| 750-852 (Ethernet ECO Coupler) Ex ec IIC T4 Gc | | | | |
| | Terminals: X3 | RJ45 | Un[V _{DC}]= 5 | 2 |
| | Un[V _{DC}] = 24 | Un[V _{DC}] = ±2.5 | In[A] = 0.4 | |
| | In[A] = 0.3 (@ 24V) | | ∑ In[A] = 0.7 | |
| 750-862 G4 Ethernet ECO Controller 2ETH Ex ec IIC T4 Gc | | | | |
| | Terminals: X3 | X1, X2 Ethernet Un[V _{DC}]=±2.5 | Un[V _{DC}]= 5 | 3.3 |
| | Un[V _{DC}] = 24 | | In[A] = 0.4 | |
| | In[A] = 0.3 (@ 24V) | | ∑ In[A] = 0.7 | |
| 750-890 G4 Ethernet Controller 2ETH SD Ex ec IIC T4 Gc | | | | |
| | Terminals: 1, 5 | Terminals: 2, 3, 6, 7 X1, X2 Ethernet Un[V _{DC}]=±2.5 | Un[V _{DC}] = 5 | 3.8 |
| | Un[V _{DC}] = 24 | Un[V _{DC}]= 24 | In[A] = 0.45 | |
| | In[A] = 0.5 (@ 24V) | In[A] = 10 | ∑ In[A] = 1.7 | |

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| | | | | | | | |
|---|---------------------------|--------------------|---------------------------|-------------------------|-----|--|--|
| 750-891 G4 Ethernet Controller 2ETH Ex ec IIC T4 Gc | | | | | | | |
| Terminals: 1, 5 | Terminals: 2, 3, 6, 7 | X1, X2 Ethernet | Un[V _{DC}]=±2.5 | Un[V _{DC}]= 5 | 3.8 | | |
| Un[V _{DC}] = 24 | Un[V _{DC}] = 24 | | | In[A] = 0.45 | | | |
| In[A] = 0.5 (@ 24V) | In[A] = 10 | | | ∑ In[A] = 1.7 | | | |
| 750-893 G4 Ethernet/IP Controller 2ETH Ex ec IIC T4 Gc | | | | | | | |
| Terminals: 1, 5 | Terminals: 2, 3, 6, 7 | X1, X2 Ethernet | Un[V _{DC}]=±2.5 | Un[V _{DC}]= 5 | 3.8 | | |
| Un[V _{DC}] = 24 | Un[V _{DC}] = 24 | | | In[A] = 0.45 | | | |
| In[A] = 0.5 (@ 24V) | In[A] = 10 | | | ∑ In[A] = 1.7 | | | |
| 750-8100 (PFC100 CS3 ETH ECO) Ex ec IIC T4 Gc | | | | | | | |
| Terminals: X3 | | X1, X2 Ethernet | Un[V _{DC}]=±2.5 | Un[V _{DC}]= 5 | 3.9 | | |
| Un[V _{DC}] = 24 | | | | In[A] = 0.5 | | | |
| In[A] = 0.5 (@ 24V) | | | | ∑ In[A] = 0.7 | | | |
| 750-8101 (PFC100 CS3 ETH) Ex ec IIC T4 Gc | | | | | | | |
| Terminals: 1, 5 | Terminals: 2, 3, 6, 7 | X1, X2 Ethernet | Un[V _{DC}]=±2.5 | Un[V _{DC}]= 5 | 3.5 | | |
| Un[V _{DC}] = 24 | Un[V _{DC}] = 24 | | | In[A] = 0.5 | | | |
| In[A] = 0.5 (@ 24V) | In[A] = 10 | | | ∑ In[A] = 1.7 | | | |
| 750-8102 (PFC100 CS3 ETH RS) Ex ec IIC T4 Gc | | | | | | | |
| Terminals: 1, 5 | Terminals: 2, 3, 6, 7 | X1, X2 Ethernet | Un[V _{DC}]=±2.5 | Un[V _{DC}]= 5 | 3.8 | | |
| Un[V _{DC}] = 24 | Un[V _{DC}] = 24 | | | In[A] = 0.55 | | | |
| In[A] = 0.55 (@ 24V) | In[A] = 10 | X3 RS 232/485 | Un[V _{DC}]= 5 | ∑ In[A] = 1.7 | | | |
| 750-8202 PFC200 CS 2ETH RS Ex ec IIC T4 Gc | | | | | | | |
| Terminals: 1, 5 | Terminals: 2, 3, 6, 7 | X1, X2 Ethernet | Un[V _{DC}]=±2.5 | Un[V _{DC}]= 5 | 3.0 | | |
| Un[V _{DC}] = 24 | Un[V _{DC}] = 24 | X3 RS 232/485 | Un[V _{DC}] = 5 | In[A] = 0.45 | | | |
| In[A] = 0.5 (@ 24V) | In[A] = 10 | | | ∑ In[A] = 1.7 | | | |
| 750-8203 PFC200 CS 2ETH CAN Ex ec IIC T4 Gc | | | | | | | |
| Terminals: 1, 5 | Terminals: 2, 3, 6, 7 | X1, X2 Ethernet | Un[V _{DC}]=±2.5 | Un[V _{DC}]= 5 | 3.0 | | |
| Un[V _{DC}] = 24 | Un[V _{DC}] = 24 | X4CAN | Un[V _{DC}] = 5 | In[A] = 0.45 | | | |
| In[A] = 0.5 (@ 24V) | In[A] = 10 | | | ∑ In[A] = 1.7 | | | |
| 750-8204 PFC200 CS 2ETH RS CAN Ex ec IIC T4 Gc | | | | | | | |
| Terminals: 5 | Terminals: 2, 3, 6, 7 | X1, X2 Ethernet | Un[V _{DC}]=±2.5 | Un[V _{DC}]= 5 | 3.5 | | |
| Un[V _{DC}] = 24 | Un[V _{DC}] = 24 | X3 RS 232/485 | Un[V _{DC}] = 5 | In[A] = 0.45 | | | |
| In[A] = 0.5 (@ 24V) | In[A] = 10 | X4 CAN | Un[V _{DC}] = 5 | ∑ In[A] = 1.7 | | | |

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|---|---------------------------|--------------------|---------------------------|-------------------------|-----|--|
| 750-8206 PFC200 CS 2ETH RS CAN DPS Ex ec IIC T4 Gc | | | | | | |
| Terminals: 1, 5 | Terminals: 2, 3, 6, 7 | X1, X2 Ethernet | Un[V _{DC}]=±2.5 | Un[V _{DC}]= 5 | 4.0 | |
| Un[V _{DC}] = 24 | Un[V _{DC}] = 24 | X3 RS 232/485 | Un[V _{DC}] = 5 | In[A] = 0.45 | | |
| In[A] = 0.5 (@ 24V) | In[A] = 10 | X4 CAN | Un[V _{DC}] = 5 | ∑ In[A] = 1.7 | | |
| | | X5 Profibus | Un[V _{DC}] = 15 | | | |
| 750-8208 PFC200 CS 2ETH RS CAN DPM Ex ec IIC T4 Gc | | | | | | |
| Terminals: 1, 5 | Terminals: 2, 3, 6, 7 | X1, X2 Ethernet | Un[V _{DC}]=±2.5 | Un[V _{DC}]= 5 | 5.0 | |
| Un[V _{DC}] = 24 | Un[V _{DC}] = 24 | X3 RS 232/485 | Un[V _{DC}] = 15 | In[A] = 0.6 | | |
| In[A] = 0.55 (@ 24V) | In[A] = 10 | X4 CAN | Un[V _{DC}] = 5 | ∑ In[A] = 1.7 | | |
| | | X5 Profibus | Un[V _{DC}] = 5 | | | |
| 750-8212 PFC200 CS 2ETH RS Ex ec IIC T4 Gc | | | | | | |
| Terminals: 1, 5 | Terminals: 2, 3, 6, 7 | X1, X2 Ethernet | Un[V _{DC}]=±2.5 | Un[V _{DC}]= 5 | 5.0 | |
| Un[V _{DC}] = 24 | Un[V _{DC}] = 24 | X3 RS 232/485 | Un[V _{DC}] = 15 | In[A] = 0.6 | | |
| In[A] = 0.5 (@ 24V) | In[A] = 10 | | | ∑ In[A] = 1.7 | | |
| 750-8213 PFC200 CS 2ETH CAN Ex ec IIC T4 Gc | | | | | | |
| Terminals: 1, 5 | Terminals: 2, 3, 6, 7 | X1, X2 Ethernet | Un[V _{DC}]=±2.5 | Un[V _{DC}]= 5 | 5.0 | |
| Un[V _{DC}] = 24 | Un[V _{DC}] = 24 | X4 CAN | Un[V _{DC}] = 5 | In[A] = 0.6 | | |
| In[A] = 0.5 (@ 24V) | In[A] = 10 | | | ∑ In[A] = 1.7 | | |
| 750-8214 PFC200 CS 2ETH RS CAN Ex ec IIC T4 Gc | | | | | | |
| Terminals: 5 | Terminals: 2, 3, 6, 7 | X1, X2 Ethernet | Un[V _{DC}]=±2.5 | Un[V _{DC}]= 5 | 5.0 | |
| Un[V _{DC}] = 24 | Un[V _{DC}] = 24 | X3 RS 232/485 | Un[V _{DC}] = 15 | In[A] = 0.6 | | |
| In[A] = 0.5 (@ 24V) | In[A] = 10 | X4 CAN | Un[V _{DC}] = 5 | ∑ In[A] = 1.7 | | |
| 750-8215 PFC 200 4ETH CAN USB Ex ec IIC T4 Gc | | | | | | |
| Terminals: 5 | Terminals: 2, 3, 6, 7 | X1, X2 Ethernet | Un[V _{DC}]=±2.5 | Un[V _{DC}]= 5 | 5.0 | |
| Un[V _{DC}] = 24 | Un[V _{DC}] = 24 | X3, X4 Profinet | Un[V _{DC}]=±2.5 | In[A] = 0.6 | | |
| In[A] = 0.5 (@ 24V) | In[A] = 10 | X5 CAN | Un[V _{DC}] = 5 | ∑ In[A] = 1.7 | | |

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|------------------------------------|-----------------------|--------------------|---------------------------|-------------------------|-----|--|
| 750-8216 PFC200 CS 2ETH RS CAN DPS | | | | | | |
| Ex ec IIC T4 Gc | | | | | | |
| Terminals: 1, 5 | Terminals: 2, 3, 6, 7 | X1, X2 Ethernet | Un[V _{DC}]=±2.5 | Un[V _{DC}]= 5 | 5.0 | |
| Un[VDC] = 24 | Un[VDC]= 24 | X3 RS 232/485 | Un[V _{DC}] = 15 | In[A] = 0.6 | | |
| In[A] = 0.5 (@ 24V) | In[A] = 10 | X4 CAN | Un[V _{DC}] = 5 | ∑ In[A] = 1.7 | | |
| | | X5 Profibus | Un[V _{DC}] = 5 | | | |

Thermal data:

The maximum permissible ambient temperature range is $0^{\circ}\text{C} \leq T_a \leq +60^{\circ}\text{C}$.

The maximum permissible ambient temperature range for modules with suffix extension /**25-**** is $-20^{\circ}\text{C} \leq T_a \leq +60^{\circ}\text{C}$.

Special Conditions for Safe Use / Notes for Erection:

1. The modules WAGO-I/O-SYSTEM *750-****/* have to be installed in a suitable housing according to IEC 60079-7:2015/A1:2017 resp. IEC 60079-15:2017 in such a way, that a degree of protection of at least IP 54 according to IEC 60529 is reached.
2. The modules have to be erected in such a way that a pollution degree 2 or less, according to IEC 60664-1, is achieved.
3. Measures have to be taken, external to the modules, to provide a transient protection that ensures that the rated voltage, connected to the power supply terminals, is not exceeded by more than 40 %.
4. The connecting and disconnecting of all pluggable connection (Fieldbus; CAN; SD card) are permitted only in a non-hazardous area. In normal operation the socket of pluggable USB does not have a plug inserted.
5. The ambient temperature range is $0^{\circ}\text{C} \leq T_a \leq +60^{\circ}\text{C}$
The ambient temperature range is for modules with suffix extension /**25-**** is: $-20^{\circ}\text{C} \leq T_a \leq +60^{\circ}\text{C}$
6. The following warnings must be placed nearby the modules:
WARNING-DO NOT CONNECT OR DISCONNECT WHEN ENERGIZED
WARNING-CONNECT OR DISCONNECT ONLY IN A NON-HAZARDOUS AREA