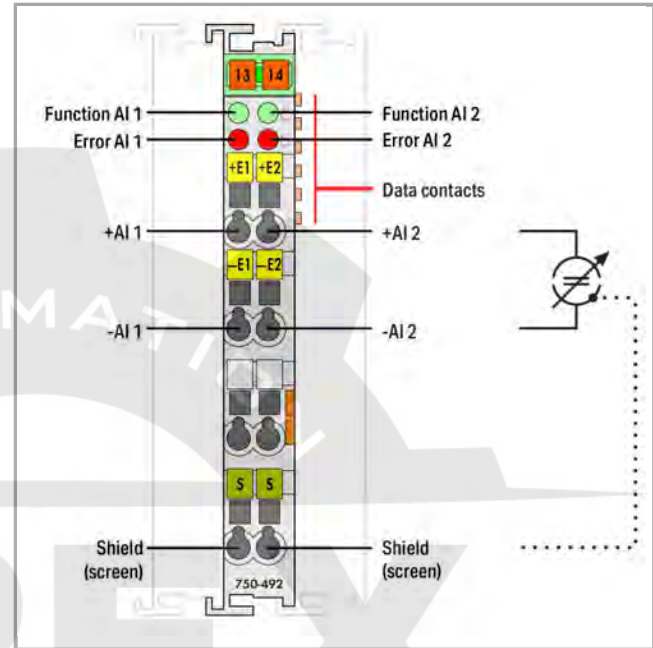
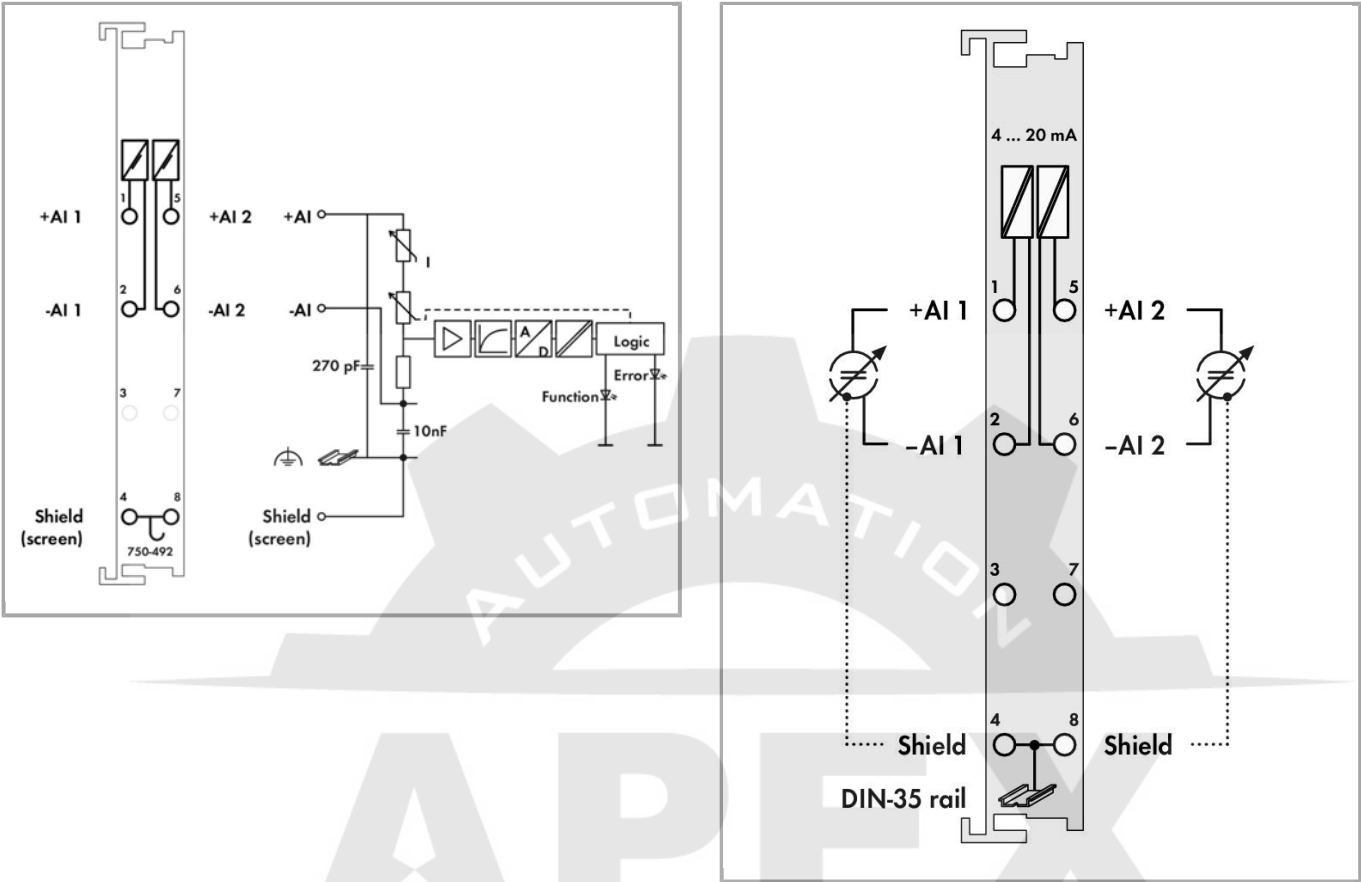


750-492



RoHS  Compliant

[BOMcheck.net](https://www.bomcheck.net)



Item description

The 2-channel analog input module processes differential signals of a magnitude 4–20mA.

The input signal of each channel is electrically isolated and is transmitted with a resolution of 13 bits.

The internal system supply powers the module.

The shield (screen) is directly connected to the DIN rail.

- Measured-value acquisition: time synchronous (both inputs)
- Measuring range overflow/underflow: status byte and LED
- Method of conversion: SAR (Successive Approximation Register)
- Operating mode: continuously sampling (preset)
- Protection: non-linear limiting

Data  
Technical Data

|                                   |                |
|-----------------------------------|----------------|
| Number of analog inputs           | 2              |
| Total number of channels (module) | 2              |
| Type of signal                    | Current        |
| Type of signal current            | DC 4 ... 20 mA |

|                                                     |                                                      |
|-----------------------------------------------------|------------------------------------------------------|
| Sensor connection                                   | 2 x (2-conductor)                                    |
| Input filter                                        | low pass first order, $f_G = 5 \text{ kHz}$          |
| Signal characteristic                               | Differential                                         |
| Resolution [bit]                                    | 13 Bit                                               |
| Operating mode                                      | Triggered (Preset)                                   |
| Input resistance max.                               | 270 $\Omega$                                         |
| Bit width                                           | 2 x 16-bit data; 2 x 8-bit control/status (optional) |
| Protection                                          | Non-linear limiting                                  |
| Admissible continuous overload                      | 30 V                                                 |
| Crosstalk attenuation                               | 80 dB                                                |
| Monotonicity without missing codes                  | yes                                                  |
| Messfehler, Bezugstemperatur                        | 25 °C                                                |
| Messfehler, Abweichung max. vom Messbereichsendwert | 0.05 %                                               |
| Error in complete temperature range                 | $\leq 0,4 \text{ %}$                                 |
| Temperaturfehler max. vom Messbereichsendwert       | 0.01 %/K                                             |
| Sampling duration                                   | 5 $\mu\text{s}$                                      |
| Sampling delay (channel/channel)                    | 1 $\mu\text{s}$                                      |
| Sampling delay (module)                             | 1 ms                                                 |
| Sampling time of repetition                         | 1 ms                                                 |
| Measuring range overflow/underflow                  | Status byte and LED                                  |
| Measured-value acquisition                          | Time synchronous (both inputs)                       |
| Value of the LSB (least significant bit)            | 2.4 $\mu\text{A}$                                    |
| Method of conversion                                | SAR (Successive Approximation Register)              |
| System supply voltage                               | DC 5 V; via data contacts                            |
| Current consumption, system supply (5 V)            | 80 mA                                                |
| System and sensor supply voltage                    | )                                                    |
| Isolation                                           | 500 V System/Feld bzw. Kanal/Kanal                   |

## Connection data

|                                    |                                              |
|------------------------------------|----------------------------------------------|
| Connection technology: In-/Outputs | 8 x CAGE CLAMP®                              |
| Connection type (1)                | Inputs/Outputs                               |
| Solid conductor                    | 0.08 ... 2.5 mm <sup>2</sup> / 28 ... 14 AWG |
| Fine-stranded conductor            | 0.08 ... 2.5 mm <sup>2</sup> / 28 ... 14 AWG |
| Strip length                       | 8 ... 9 mm / 0.31 ... 0.35 inch              |

## Geometrical Data

|                                       |                      |
|---------------------------------------|----------------------|
| Width                                 | 12 mm / 0.472 inch   |
| Height                                | 69.8 mm / 2.748 inch |
| Height from upper-edge of DIN-35 rail | 62.6 mm / 2.465 inch |
| Depth                                 | 100 mm / 3.937 inch  |

## Mechanical data

|                  |             |
|------------------|-------------|
| Type of mounting | DIN-35 rail |
|------------------|-------------|

## Material Data

|                    |                              |
|--------------------|------------------------------|
| Color              | light gray                   |
| Housing material   | Polycarbonate, polyamide 6.6 |
| Fire load          | 1.583 MJ                     |
| Weight             | 51 g                         |
| Conformity marking | 1                            |

## Environmental Requirements

|                                                                                    |                                         |
|------------------------------------------------------------------------------------|-----------------------------------------|
| Surrounding air (operating) temperature                                            | 0 ... 55 °C                             |
| Surrounding air (storage) temperature                                              | -40 ... 85 °C                           |
| Protection class                                                                   | IP20                                    |
| Degree of pollution (5)                                                            | 2 per IEC 61131-2                       |
| Operating altitude                                                                 | 0 ... 2000 m                            |
| Mounting position                                                                  | horizontal (standing/lying) or vertical |
| Relative air humidity (no condensation)                                            | 95 %                                    |
| Vibration resistance                                                               | acc. to IEC 60068-2-6                   |
| Shock resistance                                                                   | 15g per IEC 60068-2-27                  |
| EMC immunity to interference                                                       | acc. to EN 61000-6-2                    |
| EMC emission of interference                                                       | acc. to EN 61000-6-4                    |
| Exposure to pollutants                                                             | Per IEC 60068-2-42 and IEC 60068-2-43   |
| Permissible H <sub>2</sub> S contaminant concentration at a relative humidity 75 % | 10 ppm                                  |
| Permissible SO <sub>2</sub> contaminant concentration at a relative humidity 75 %  | 25 ppm                                  |

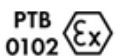
## Commercial data

|                    |                 |
|--------------------|-----------------|
| Product Group      | 15 (Remote I/O) |
| Country of origin  | DE              |
| GTIN               | 4045454470296   |
| Customs Tariff No. | 85389099990     |

## Approvals / Certificates

### Ex-Approvals

| Logo | Approval | Additional Approval Text | Certificate name |
|------|----------|--------------------------|------------------|
|      | ATEX     | EN 60079-0               | TÜV 07           |



TUEV Nord Cert GmbH

ATEX  
554086 X  
en.

INMETRO  
TÜV Rheinland do Brasil Ltda.

IEC 60079

BR-  
Ex\_TÜV  
12.1297 X



TUEV Nord  
TUEV Nord Cert GmbH

IEC 60079-0

IECEX  
TUN  
09.0001 X



UL  
Underwriters Laboratories Inc. (HAZARDOUS  
LOCATIONS)

ANSI/ISA 12.12.01

E198726  
Sec.1

#### Country specific Approvals

| Logo                                                                               | Approval                             | Additional Approval Text | Certificate name            |
|------------------------------------------------------------------------------------|--------------------------------------|--------------------------|-----------------------------|
|   | KC<br>National Radio Research Agency | Article 58-2, Clause 3   | MSIP-<br>REM-W43-<br>AIM750 |
|  | KC<br>National Radio Research Agency | Article 58-2, Clause 3   | MSIP-<br>REM-W43-<br>AIM750 |

#### UL-Approvals

| Logo                                                                               | Approval                                                        | Additional Approval Text | Certificate name |
|------------------------------------------------------------------------------------|-----------------------------------------------------------------|--------------------------|------------------|
|  | UL<br>UL International Netherlands B.V. (ORDINARY<br>LOCATIONS) | UL 508                   | E175199<br>Sec.1 |

#### Compatible products

##### system box



Item no.: 850-804  
IP65 enclosure; Stainless steel; WxHxD (400x123x200 mm); 4 x M20, 16 x M16, 28 x M12 cable grip

850-804

|                                                                                    |                                                                                                                                          |         |
|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|---------|
|    | <b>Item no.: 850-804/000-001</b><br>IP65 enclosure; Stainless steel; WxHxD (400x123x200 mm); 2 x M20, 13 x M16, 32 x M12 cable grip      | 850-804 |
|    | <b>Item no.: 850-805</b><br>IP65 enclosure; Stainless steel; WxHxD (600x123x200 mm); 4 x M20, 19 x M16, 67 x M12 cable grip              | 850-805 |
|    | <b>Item no.: 850-814/002-000</b><br>IP65 enclosure; Sheet steel (RAL 7035); WxHxD (200x120x200 mm); without flange plate                 | 850-814 |
|    | <b>Item no.: 850-815/002-000</b><br>IP65 enclosure; Sheet steel (RAL 7035); WxHxD (300x120x200 mm); without flange plate                 | 850-815 |
|    | <b>Item no.: 850-816/002-000</b><br>IP65 enclosure; Sheet steel (RAL 7035); WxHxD (400x120x200 mm); without flange plate                 | 850-816 |
|    | <b>Item no.: 850-817/002-000</b><br>IP65 enclosure; Sheet steel (RAL 7035); WxHxD (600x120x200 mm); without flange plate                 | 850-817 |
|    | <b>Item no.: 850-825</b><br>IP65 enclosure; Aluminium (RAL 7032); WxHxD (160x100x160 mm); 9 x M12, 4 x M20                               | 850-825 |
|    | <b>Item no.: 850-826</b><br>IP65 enclosure; Aluminium (RAL 7032); WxHxD (240x100x160 mm); 4 x M20, 4 x M16, 14 x M12 cable grip          | 850-826 |
|   | <b>Item no.: 850-826/002-000</b><br>IP65 enclosure; Aluminium (RAL 7035); WxHxD (240x100x160 mm); 4 x M20, 4 x M16, 14 x M12 cable grip  | 850-826 |
|  | <b>Item no.: 850-827</b><br>IP65 enclosure; Aluminium (RAL 7032); WxHxD (320x100x160 mm); 4 x M20, 8 x M16, 17 x M12 cable grip          | 850-827 |
|  | <b>Item no.: 850-827/002-000</b><br>IP65 enclosure; Aluminium (RAL 7035); WxHxD (320x100x160 mm); 4 x M20, 8 x M16, 17 x M12 cable grip  | 850-827 |
|  | <b>Item no.: 850-828</b><br>IP65 enclosure; Aluminium (RAL 7032); WxHxD (480x100x160 mm); 4 x M20, 10 x M16, 35 x M12 cable grip         | 850-828 |
|  | <b>Item no.: 850-828/002-000</b><br>IP65 enclosure; Aluminium (RAL 7035); WxHxD (480x100x160 mm); 4 x M20, 10 x M16, 35 x M12 cable grip | 850-828 |
|  | <b>Item no.: 850-834</b><br>IP65 enclosure; Polyester (RAL 7032); WxHxD (164x100x164 mm); 9 x M12, 4 x M20                               | 850-834 |
|  | <b>Item no.: 850-835</b><br>IP65 enclosure; Polyester (RAL 7032); WxHxD (244x100x164 mm); 4 x M20, 4 x M16, 14 x M12 cable grip          | 850-835 |
|  | <b>Item no.: 850-836</b><br>IP65 enclosure; Polyester (RAL 7032); WxHxD (324x100x164 mm); 4 x M20, 8 x M16, 17 x M12 cable grip          | 850-836 |

Carrier rail

|                                                                                    |                                                                                                                                      |                   |
|------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|-------------------|
|    | <b>Item no.: 210-112</b><br>Steel carrier rail; 35 x 7.5 mm; 1 mm thick; 2 m long; slotted; according to EN 60715; "Hole width 25 mm | 210-112           |
|    | <b>Item no.: 210-113</b><br>Steel carrier rail; 35 x 7.5 mm; 1 mm thick; 2 m long; unslotted; according to EN 60715                  | 210-113           |
|    | <b>Item no.: 210-114</b><br>Steel carrier rail; 35 x 15 mm; 1.5 mm thick; 2 m long; unslotted; similar to EN 60715                   | 210-114           |
|    | <b>Item no.: 210-115</b><br>Steel carrier rail; 35 x 7.5 mm; 1 mm thick; 2 m long; slotted; according to EN 60715; "Hole width 18 mm | 210-115           |
|    | <b>Item no.: 210-118</b><br>Steel carrier rail; 35 x 15 mm; 2.3 mm thick; 2 m long; unslotted; according to EN 60715                 | 210-118           |
|    | <b>Item no.: 210-196</b><br>Aluminum carrier rail; 35 x 8.2 mm; 1.6 mm thick; 2 m long; unslotted; similar to EN 60715               | 210-196           |
|    | <b>Item no.: 210-197</b><br>Steel carrier rail; 35 x 15 mm; 1.5 mm thick; 2 m long; slotted; similar to EN 60715                     | 210-197           |
|    | <b>Item no.: 210-198</b><br>Copper carrier rail; 35 x 15 mm; 2.3 mm thick; 2 m long; unslotted; according to EN 60715                | 210-198           |
|    | <b>Item no.: 210-504</b><br>Steel carrier rail; 35 x 7.5 mm; 1 mm thick; 2 m long; slotted; galvanized; according to EN 60715        | 210-504           |
|   | <b>Item no.: 210-505</b><br>Steel carrier rail; 35 x 7.5 mm; 1 mm thick; 2 m long; unslotted; galvanized; according to EN 60715      | 210-505           |
|  | <b>Item no.: 210-506</b><br>Steel carrier rail; 35 x 15 mm; 1.5 mm thick; 2 m long; unslotted; galvanized; similar to EN 60715       | 210-506           |
|  | <b>Item no.: 210-508</b><br>Steel carrier rail; 35 x 15 mm; 1.5 mm thick; 2 m long; slotted; galvanized; similar to EN 60715         | 210-508           |
| <b>Marking accessories</b>                                                         |                                                                                                                                      |                   |
|  | <b>Item no.: 2009-145</b><br>Mini-WSB Inline; for Smart Printer; on reel; stretchable 5 - 5.2 mm; plain; snap-on type                | 2009-145          |
|  | <b>Item no.: 2009-145/000-002</b><br>Mini-WSB Inline; for Smart Printer; on reel; stretchable 5 - 5.2 mm; plain; snap-on type        | 2009-145 /000-002 |
|  | <b>Item no.: 2009-145/000-005</b><br>Mini-WSB Inline; for Smart Printer; on reel; stretchable 5 - 5.2 mm; plain; snap-on type        | 2009-145 /000-005 |
|  | <b>Item no.: 2009-145/000-006</b><br>Mini-WSB Inline; for Smart Printer; on reel; stretchable 5 - 5.2 mm; plain; snap-on type        | 2009-145 /000-006 |
|  | <b>Item no.: 2009-145/000-007</b><br>Mini-WSB Inline; for Smart Printer; on reel; stretchable 5 - 5.2 mm; plain; snap-on type        | 2009-145 /000-007 |
|  | <b>Item no.: 2009-145/000-012</b><br>Mini-WSB Inline; for Smart Printer; on reel; stretchable 5 - 5.2 mm; plain; snap-on type        | 2009-145 /000-012 |

|                                                                                    |                                                                                                                               |          |
|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|----------|
|    | <b>Item no.: 2009-145/000-023</b><br>Mini-WSB Inline; for smartPRINTER; on reel; stretchable 5 - 5.2 mm; plain; snap-on type  | 2009-145 |
|                                                                                    |                                                                                                                               | 7000-023 |
|    | <b>Item no.: 2009-145/000-024</b><br>Mini-WSB Inline; for Smart Printer; on reel; stretchable 5 - 5.2 mm; plain; snap-on type | 2009-145 |
|                                                                                    |                                                                                                                               | 7000-024 |
|    | <b>Item no.: 248-501</b><br>Miniature WSB Quick marking system; plain; Marker width 5 mm; 10 strips with 10 markers per card  | 248-501  |
|    | <b>Item no.: 248-501/000-002</b><br>Mini-WSB marking card; as card; not stretchable; plain; snap-on type                      | 248-501  |
|                                                                                    |                                                                                                                               | 7000-002 |
|    | <b>Item no.: 248-501/000-005</b><br>Mini-WSB marking card; as card; not stretchable; plain; snap-on type                      | 248-501  |
|                                                                                    |                                                                                                                               | 7000-005 |
|    | <b>Item no.: 248-501/000-006</b><br>Mini-WSB marking card; as card; not stretchable; plain; snap-on type                      | 248-501  |
|                                                                                    |                                                                                                                               | 7000-006 |
|    | <b>Item no.: 248-501/000-007</b><br>Mini-WSB marking card; as card; not stretchable; plain; snap-on type                      | 248-501  |
|                                                                                    |                                                                                                                               | 7000-007 |
|  | <b>Item no.: 248-501/000-012</b><br>Mini-WSB marking card; as card; not stretchable; plain; snap-on type                      | 248-501  |
|                                                                                    |                                                                                                                               | 7000-012 |
|  | <b>Item no.: 248-501/000-017</b><br>Mini-WSB marking card; as card; not stretchable; plain; snap-on type                      | 248-501  |
|                                                                                    |                                                                                                                               | 7000-017 |
|  | <b>Item no.: 248-501/000-023</b><br>Mini-WSB marking card; as card; not stretchable; plain; snap-on type                      | 248-501  |
|                                                                                    |                                                                                                                               | 7000-023 |
|  | <b>Item no.: 248-501/000-024</b><br>Mini-WSB marking card; as card; not stretchable; plain; snap-on type                      | 248-501  |
|                                                                                    |                                                                                                                               | 7000-024 |
|  | <b>Item no.: 750-100</b><br>Marker card; as a DIN A4 sheet; plain                                                             | 750-100  |
|  | <b>Item no.: 750-103</b><br>Group marker carrier                                                                              | 750-103  |
|  | <b>Item no.: 750-106</b><br>Group marker carrier                                                                              | 750-106  |
| <b>shield connection</b>                                                           |                                                                                                                               |          |
|  | <b>Item no.: 790-108</b><br>Shield clamping saddle; 11 mm wide; diameter of compatible conductor                              | 790-108  |
|  | <b>Item no.: 790-116</b><br>Shield clamping saddle; 19 mm wide; diameter of compatible conductor; 7 ... 16 mm                 | 790-116  |

**Item no.: 790-124**

Shield clamping saddle; 27 mm wide; diameter of compatible conductor; 6 ... 24 mm

790-124

**Item no.: 790-140**

Shield clamping saddle; diameter of compatible conductor

790-140

**Item no.: 790-208**

Shield clamping saddle; 12.4 mm wide; 3 ... 8 mm

790-208

**Item no.: 790-216**

Shield clamping saddle; 21.8 mm wide; 6 ... 16 mm

790-216

**Item no.: 790-220**

Shield clamping saddle; 30 mm wide; 6 ... 20 mm

790-220

**Downloads****Documentation****Manual**

2-channel, 4-20mA

Differential measuring input

V 1.1.0

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IO-Klemmen

Apr 4, 2012

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Disposal; Electrical and electronic equipment, Packaging

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Overview on WAGO-I/O-SYSTEM 750 approvals

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Basic conditions and recommendations for higher operational safety

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|                                                    |              |        |          |
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| 759-923                                            | Sep 10, 2014 | 4.8 MB |          |

Product family

750/753 Series I/O-System  
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