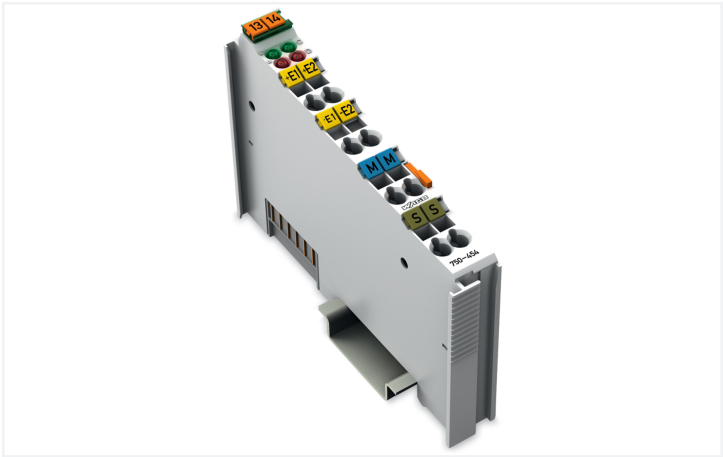
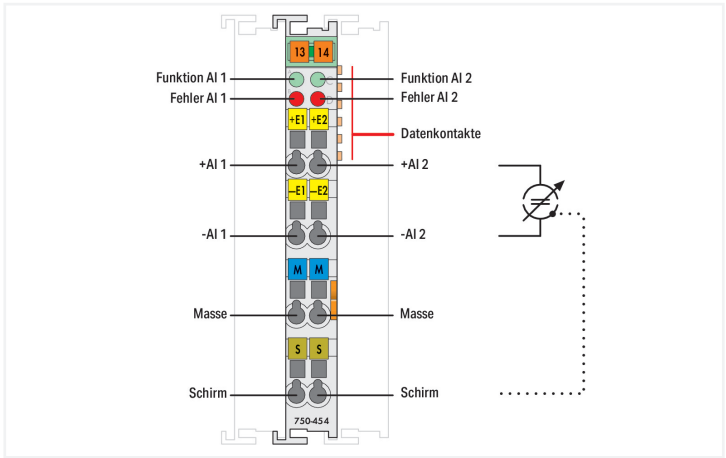
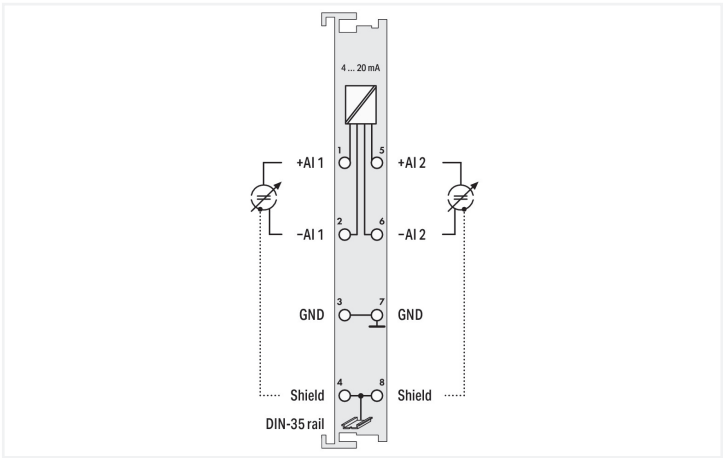
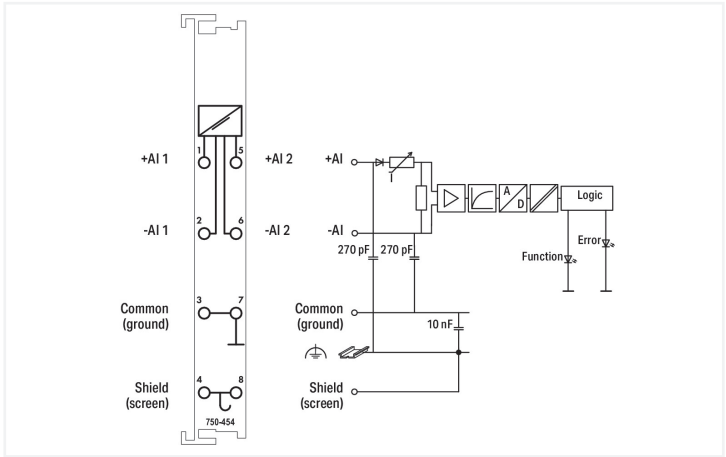




Color: ■ light gray



This analog input module processes standard 4–20 mA signals.  
The input signal is electrically isolated and is transmitted with a resolution of 12 bits.  
The internal system supply powers the module.  
The input channels of the module are differential inputs.  
The shield directly connects to the DIN-rail.

| Technical data                                                 |                                                                         |
|----------------------------------------------------------------|-------------------------------------------------------------------------|
| Number of analog inputs                                        | 2                                                                       |
| Total number of channels (module)                              | 2                                                                       |
| Signal type                                                    | Current                                                                 |
| Signal type (current)                                          | 4 ... 20 mADC                                                           |
| Sensor connection                                              | 2 x (2-wire)                                                            |
| Input voltage (max.)                                           | 35 V                                                                    |
| Signal characteristics                                         | Differential                                                            |
| Resolution [bit]                                               | 12 bits                                                                 |
| Input resistance (max.)                                        | 220 Ω                                                                   |
| Data width                                                     | 2 x 16-bit data; 2 x 8-bit control/status (optional)                    |
| Conversion time (typ.)                                         | 2 ms                                                                    |
| Measurement error (reference temperature)                      | 25 °C                                                                   |
| Measurement error, deviation (max.) from the upper-range value | 0.2 %                                                                   |
| Temperature error (max.) of the upper-range value              | 0.01 %/K                                                                |
| Supply voltage (system)                                        | 5 VDC; via data contacts                                                |
| Current consumption (5 V system supply)                        | 70 mA                                                                   |
| Isolation                                                      | 500 V system/field                                                      |
| Indicators                                                     | LED (A, C) green: Function AI 1, AI 2; LED (B, D) red: Error AI 1, AI 2 |



| Connection data                       |                                   |
|---------------------------------------|-----------------------------------|
| Connection technology: inputs/outputs | 8 x CAGE CLAMP®                   |
| Connectable conductor materials       | Copper                            |
| Connection type 1                     | Inputs/outputs                    |
| Solid conductor                       | 0.08 ... 2.5 mm² / 28 ... 14 AWG  |
| Fine-stranded conductor               | 0.08 ... 2.5 mm² / 28 ... 14 AWG  |
| Strip length                          | 8 ... 9 mm / 0.31 ... 0.35 inches |

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

| Mechanical data |             |
|-----------------|-------------|
| Mounting type   | DIN-35 rail |

| Material data      |                              |
|--------------------|------------------------------|
| Color              | light gray                   |
| Housing material   | Polycarbonate; polyamide 6.6 |
| Fire load          | 1.034 MJ                     |
| Weight             | 49.8 g                       |
| Conformity marking | CE                           |

| Environmental requirements                                                         |                                                                                                        |
|------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|
| Ambient temperature (operation)                                                    | 0 ... +55 °C                                                                                           |
| Ambient temperature (storage)                                                      | -40 ... +85 °C                                                                                         |
| Protection type                                                                    | IP20                                                                                                   |
| Pollution degree                                                                   | 2 per IEC 61131-2                                                                                      |
| Operating altitude                                                                 | 0 ... 2000 m / 0 ... 6562 ft                                                                           |
| Mounting position                                                                  | Horizontal left, horizontal right, horizontal top, horizontal bottom, vertical top and vertical bottom |
| Relative humidity (without condensation)                                           | 95 %                                                                                                   |
| Vibration resistance                                                               | 4g per IEC 60068-2-6                                                                                   |
| Shock resistance                                                                   | 15g per IEC 60068-2-27                                                                                 |
| EMC immunity to interference                                                       | per EN 61000-6-2, marine applications                                                                  |
| EMC emission of interference                                                       | per EN 61000-6-4, marine applications                                                                  |
| 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 (I/O System) |
| PU (SPU)              | 1 pcs           |
| Packaging type        | Box             |
| Country of origin     | DE              |
| GTIN                  | 4045454483098   |
| Customs tariff number | 85389099990     |





Approvals for hazardous areas

| <div><div><div>PTB</div><div>0102</div><div>Ex</div></div><div><div>CCC</div></div><div><div>IECEX</div></div><div><div>INMETRO</div></div><div><div>TÜV Rheinland</div><div>QCP 0054</div></div><div><div>DEKRA</div><div>8505</div><div>UKEX</div></div><div><div>UL</div></div></div> |             |                                            |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|--------------------------------------------|
| Approval                                                                                                                                                                                                                                                                                 | Standard    | Certificate Name                           |
| ATEX<br>TUEV Nord Cert GmbH                                                                                                                                                                                                                                                              | EN 60079-0  | TUEV14ATEX148929X (II 3 G Ex ec IIC T4 Gc) |
| CCCEX<br>CQST/CNEX                                                                                                                                                                                                                                                                       | CNCA-C23-01 | 2020312310000213 (Ex ec IIC T4 Gc)         |
| IECEX<br>TUEV Nord Cert GmbH                                                                                                                                                                                                                                                             | IEC 60079-0 | IECEX TUN 14.0035 X (Ex ec IIC T4 Gc)      |
| INMETRO<br>TÜV Rheinland do Brasil Ltda.                                                                                                                                                                                                                                                 | IEC 60079-0 | TÜV 12.1297 X                              |
| UKEx<br>WAGO GmbH & Co. KG                                                                                                                                                                                                                                                               | EN 60079-0  | UKCA_WA<br>GO22UKEX003X_ec                 |
| UL<br>Underwriters Laboratories Inc. (HAZARDOUS LOCATIONS)                                                                                                                                                                                                                               | UL 121201   | E198726                                    |

Downloads

Environmental Product Compliance

| Compliance Search                        |                   |
|------------------------------------------|-------------------|
| Environmental Product Compliance 750-454 | <a href="#">↓</a> |

Documentation

| Manual                                  |            |                   |                   | System Description                                      |                  |                  |                   |
|-----------------------------------------|------------|-------------------|-------------------|---------------------------------------------------------|------------------|------------------|-------------------|
| System Manual Series 750/753            |            |                   |                   | 750/753 Series I/O-System – General Product Information | pdf<br>953.35 KB |                  | <a href="#">↓</a> |
| Product Manual 2-channel, 4-20mA, diff. | V 1.2.0    | pdf<br>2029.37 KB | <a href="#">↓</a> |                                                         |                  |                  |                   |
|                                         |            |                   |                   | Overview on WAGO-I/O-SYSTEM 750 approvals               | pdf<br>770.48 KB |                  | <a href="#">↓</a> |
| Bid Text                                |            |                   |                   | Instruction Leaflet                                     |                  |                  |                   |
| 750-454                                 | 19.02.2019 | xml<br>4.20 KB    | <a href="#">↓</a> | CCC Ex (Additional information)                         | 26.04.2023       | pdf<br>159.76 KB | <a href="#">↓</a> |
| 750-454                                 | 17.10.2017 | doc<br>28.50 KB   | <a href="#">↓</a> |                                                         |                  |                  |                   |
| 750-454                                 | 17.10.2017 | docx<br>16.76 KB  | <a href="#">↓</a> |                                                         |                  |                  |                   |



| CAD/CAE-Data         |                           |
|----------------------|---------------------------|
| CAD data             | CAE data                  |
| 2D/3D Models 750-454 | EPLAN Data Portal 750-454 |
|                      | WSCAD Universe 750-454    |
|                      | ZUKEN Portal 750-454      |

| Device Files                                       |                       |                   |  |
|----------------------------------------------------|-----------------------|-------------------|--|
| Device Driver                                      |                       |                   |  |
| WAGO USB Service Kabel Treiber / Serie 750 und 857 | 6.5.3.0<br>10.09.2014 | zip<br>4721.96 KB |  |

| 1 Compatible Products        |
|------------------------------|
| 1.1 Optional Accessories     |
| 1.1.1 DIN-rail               |
| 1.1.1.1 Mounting accessories |

|                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                               |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <br><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; silver-colored               | <br><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; copper-colored         | <br><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; silver-colored | <br><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; silver-colored                     |
| <br><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; silver-colored       | <br><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; silver-colored            | <br><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; silver-colored         | <br><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; silver-colored |
| <br><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; silver-colored | <br><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; silver-colored | <br><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; silver-colored          | <br><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; silver-colored      |

| 1.1.2 Marking                                                                                                                           |
|-----------------------------------------------------------------------------------------------------------------------------------------|
| 1.1.2.1 Group marker carrier                                                                                                            |
| <br><b>Item No.: 750-106</b><br>Group marker carrier |



1.1.2.2 Marker

|                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                         |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <br><b>Item No.: 750-100</b><br>Marker card; as a DIN A4 sheet; plain                                                                                 | <br><b>Item No.: 2009-145/000-006</b><br>Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; blue | <br><b>Item No.: 2009-145/000-007</b><br>Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; gray   | <br><b>Item No.: 2009-145/000-023</b><br>Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; green |
| <br><b>Item No.: 2009-145/000-012</b><br>Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; orange | <br><b>Item No.: 2009-145/000-005</b><br>Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; red  | <br><b>Item No.: 2009-145/000-024</b><br>Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; violet | <br><b>Item No.: 2009-145</b><br>Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; white         |
| <br><b>Item No.: 2009-145/000-002</b><br>Mini-WSB Inline; for Smart Printer; 1700 pieces on roll; stretchable 5 - 5.2 mm; plain; snap-on type; yellow | <br><b>Item No.: 248-501/000-006</b><br>Mini-WSB marking card; as card; not stretchable; plain; snap-on type; blue                                  | <br><b>Item No.: 248-501/000-007</b><br>Mini-WSB marking card; as card; not stretchable; plain; snap-on type; gray                                    | <br><b>Item No.: 248-501/000-023</b><br>Mini-WSB marking card; as card; not stretchable; plain; snap-on type; green                                  |
| <br><b>Item No.: 248-501/000-017</b><br>Mini-WSB marking card; as card; not stretchable; plain; snap-on type; light green                             | <br><b>Item No.: 248-501/000-012</b><br>Mini-WSB marking card; as card; not stretchable; plain; snap-on type; orange                                | <br><b>Item No.: 248-501/000-005</b><br>Mini-WSB marking card; as card; not stretchable; plain; snap-on type; red                                     | <br><b>Item No.: 248-501/000-024</b><br>Mini-WSB marking card; as card; not stretchable; plain; snap-on type; violet                                 |
| <br><b>Item No.: 248-501</b><br>Mini-WSB marking card; as card; not stretchable; plain; snap-on type; white                                           | <br><b>Item No.: 248-501/000-002</b><br>Mini-WSB marking card; as card; not stretchable; plain; snap-on type; yellow                                |                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                         |

1.1.2.3 Marker carrier

|                                                                                                                                         |
|-----------------------------------------------------------------------------------------------------------------------------------------|
| <br><b>Item No.: 750-103</b><br>Group marker carrier |
|-----------------------------------------------------------------------------------------------------------------------------------------|

1.1.3 Shield termination

1.1.3.1 Shield clamping saddles

|                                                                                                                                                                                                      |                                                                                                                                                                     |                                                                                                                                                                                                      |                                                                                                                                                                        |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <br><b>Item No.: 790-108</b><br>Shield clamping saddle; 11 mm wide; diameter of compatible conductor; 3 ... 8 mm  | <br><b>Item No.: 790-208</b><br>Shield clamping saddle; 12.4 mm wide; 3 ... 8 mm | <br><b>Item No.: 790-116</b><br>Shield clamping saddle; 19 mm wide; diameter of compatible conductor; 7 ... 16 mm | <br><b>Item No.: 790-216</b><br>Shield clamping saddle; 21.8 mm wide; 6 ... 16 mm |
| <br><b>Item No.: 790-124</b><br>Shield clamping saddle; 27 mm wide; diameter of compatible conductor; 6 ... 24 mm | <br><b>Item No.: 790-220</b><br>Shield clamping saddle; 30 mm wide; 6 ... 20 mm  | <br><b>Item No.: 790-140</b><br>Shield clamping saddle; diameter of compatible conductor                          |                                                                                                                                                                        |



1.1.4 System enclosure

1.1.4.1 System enclosure

|                                                                                                                                                                                                                              |                                                                                                                                                                                                                              |                                                                                                                                                                                                                                |                                                                                                                                                                                                                         |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <br><b>Item No.: 850-825</b><br>IP65 enclosure; Aluminium (RAL 7032); WxHxD (160x100x160 mm); 9 x M12, 4 x M20                              | <br><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         | <br><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          | <br><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 |
| <br><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 | <br><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 | <br><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 | <br><b>Item No.: 850-834</b><br>IP65 enclosure; Polyester (RAL 7032); WxHxD (164x100x164 mm); 9 x M12, 4 x M20                       |
| <br><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         | <br><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         | <br><b>Item No.: 850-814/002-000</b><br>IP65 enclosure; Sheet steel (RAL 7035); WxHxD (200x120x200 mm); without flange plate                 | <br><b>Item No.: 850-815/002-000</b><br>IP65 enclosure; Sheet steel (RAL 7035); WxHxD (300x120x200 mm); without flange plate         |
| <br><b>Item No.: 850-816/002-000</b><br>IP65 enclosure; Sheet steel (RAL 7035); WxHxD (400x120x200 mm); without flange plate                | <br><b>Item No.: 850-817/002-000</b><br>IP65 enclosure; Sheet steel (RAL 7035); WxHxD (600x120x200 mm); without flange plate                |                                                                                                                                                                                                                                |                                                                                                                                                                                                                         |