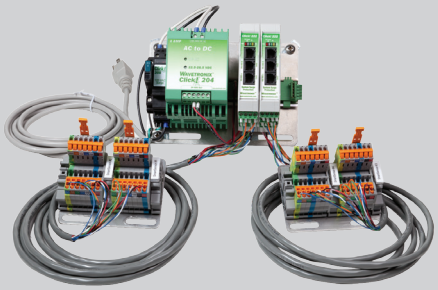
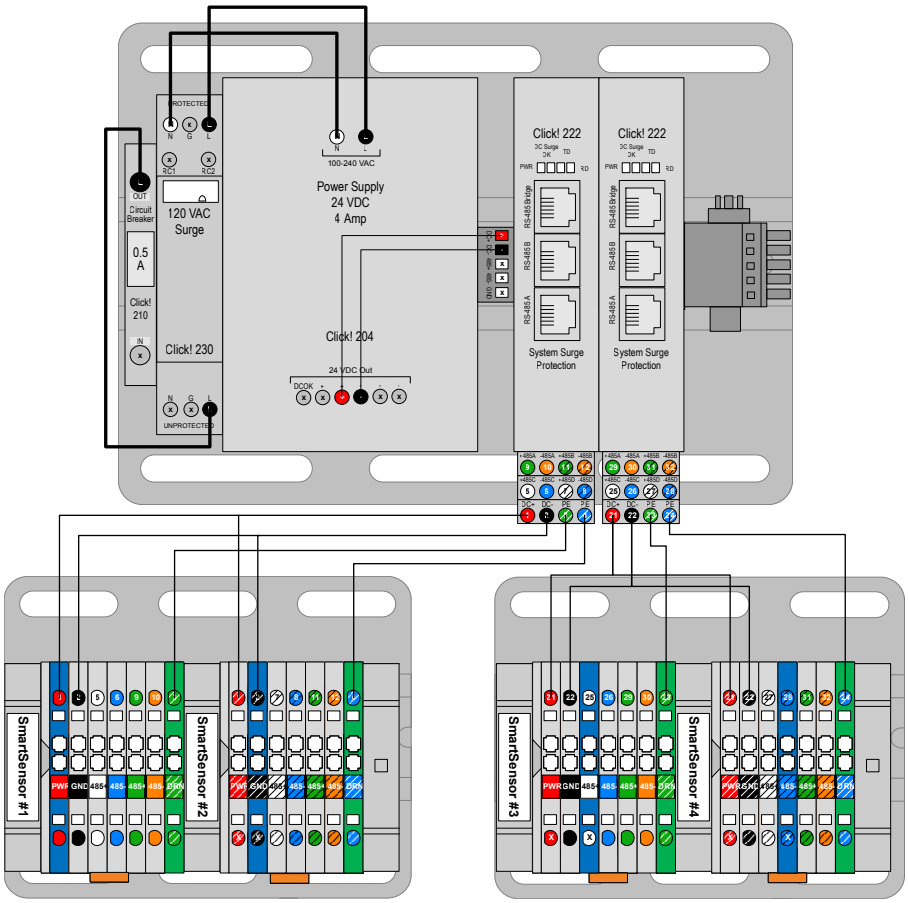
Intersection Segmented Backplate

The intersection segmented backplate comes pre-wired with all the devices you need to support a two- or four-sensor SmartSensor™ Advance or Matrix installation, but instead of one large backplate, the components come installed on two or three small backplates to save space in your cabinet.

Features

- Provides pre-assembled, pre-wired support for your SmartSensor Matrix or Advance installation
- Includes terminal blocks, AC to DC power conversion and surge suppression for both serial and power cables
- Color-coded terminal blocks match colors on SmartSensor 6-conductor cable for foolproof cable landing
- Terminal blocks use insulation displacement connections for easy wire termination
- Comes preassembled on three small traffic cabinet backplates to save space in your cabinet
  - Backplates can be installed near each other or in different areas of the cabinet to fit easily into the existing space; included cables let you install the different pieces up to 10 ft. away from each other
- Two models available: two-sensor backplate and four-sensor backplate





Technical Specifications

Assembly Components: Two-sensor backplate

- 1 Click 202 2 A power supply
- 1 Click 210 0.5 A circuit breaker
- 1 Click 222 system surge protector
- 1 Click 230 AC surge protector
- 1 T-bus 5-screw terminal block (left end)
- 2 T-bus connectors (power and communication)
- 2 end brackets with labels
- 1 end bracket without label
- 14 terminal blocks for cable termination: insulation displacement to plug insulation displacement (2 grounded)
  - Mounting platform: 2 traffic cabinet backplates
  - 1 7 in. x 5 in. (17.8 cm x 12.7 cm) for power and surge devices
- 1 4.25 in. x 3.5 in. (10.8 cm x 8.9 cm) for terminal blocks
- 1 10-ft. (3-m) 15-conductor serial cable
- 1 8-ft. (2.4-m) AC power cord with standard NEMA 5-15 plug
- 1 5-ft. (1.5-m) black RJ-11 patch cable
- 2 5-ft. (1.5-m) white RJ-11 patch cables

Assembly Components: Four-sensor backplate

- 1 Click 204 4 A power supply
- 1 Click 0.5 A 210 circuit breaker
- 2 Click 222 system surge protectors
- 1 Click 230 AC surge protector
- 1 T-bus 5-screw terminal block (left end)
- 3 T-bus connectors (power and communication)
- 4 end brackets with labels
- 2 end brackets without labels
- 28 terminal blocks for cable termination: insulation displacement to plug insulation displacement (4 grounded)
- Mounting platform: 3 traffic cabinet backplates
  - 1 7 in. x 5 in. (17.8 cm x 12.7 cm) for power and surge devices
  - 2 4.25 in. x 3.5 in. (10.8 cm x 8.9 cm) for terminal blocks
- 2 10-ft. (3-m) 15-conductor serial cables
- 1 8-ft. (2.4-m) AC power cord with standard NEMA 5-15 plug
- 1 5-ft. (1.5-m) black RJ-11 patch cable
- 4 5-ft. (1.5-m) white RJ-11 patch cables

Click 202/204 Specifications

- Physical
  - Weight: 0.55 lbs. (0.25 kg) / 1.1 lbs. (0.48 kg)
  - Physical dimensions: 4.5 in. × 3.9 in. × 1.7 in. (11.4 cm x 9.9 cm x 4.3 cm) / 4.2 in. x 3.9 in. x 2.7 in. (10.7 cm x 9.9 cm x 6.8 cm)
  - Ambient operating temperature: -29°F to 140°F (-34°C to 60°C); between 140°F and 165°F (60°C and 74°C) derating
  - Humidity: up to 95% RH
- Mounting
  - DIN rail–mountable
- Connections
  - Pluggable screw terminals for easy pre-wiring
- Power
  - Click 202 power output at -29°F to 140°F (-34°C to 60°C): 2 A
  - Click 204 power output at -29°F to 140°F (-34°C to 60°C): 4 A
  - At temperatures between 140°F to 165°F (60°C and 74°C), output will decrease at a rate of 2.5% per degree Celsius temperature increase
  - Power input: 100–240 VAC at 45–65 Hz

Surge Protection

- Complies with the applicable standards stated in the IEC 61000-4-5 Standard for AC input power lines
- Efficiency
  - Efficiency in converting AC input to DC: 80% or greater
- UL Listed
  - Listed with UL under UL 508; complies with all applicable UL 508 standards.
- NEMA TS2-1998 Testing
  - Click 202 complies with the applicable standards stated in the NEMA TS2-1998 Standard
  - Test results available for each of the following tests for the

Ordering Information

Intersection segmented backplate
Two-sensor backplate
SS-B03-0004

Intersection segmented backplate
Four-sensor backplate
SS-B03-0005

ACCESSORIES

CLK-112/114 – Click 112/114 rack cards

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Click 202: shock pulses of 10g, 11 ms half sine wave; vibration of .5 Grms up to 30 Hz; 300 V positive/negative pulses applied at one pulse per second at minimum and maximum DC supply voltage; stored at -49°F (-45°C) for 24 hours; stored at 185°F (85°C) for 24 hours; operation at -29.2°F (-34°C) and 10.8 VDC; operation at -29.2°F (-34°C) and 26.5 VDC; operation at 165.2°F (74°C) and 26.5 VDC; operation at 165.2°F (74°C) and 10.8 VDC

- Testing
  - Device is tested by the manufacturer before shipment
- Extended Support
  - Extended support options are available from Wavetronix; contact a Wavetronix representative for more information
- Warranty
  - One-year warranty against material and workmanship defect

Click 210 Specifications

- Physical
  - Weight: 0.07 lbs. (31.8 g)
  - Physical dimensions: 0.3 in. x 2.5 in. x 3.4 in. (0.08 cm x 6.4 cm x 8.6 cm)
  - Ambient operating temperature: -4°F to 140°F (-20°C to 60°C)
- Mounting
  - DIN rail–mountable
- Power
  - Nominal operating voltage: 250 VAC, 65 VDC
  - Click 210 nominal current: 0.5 A
- Connections
  - Two screw terminals for wiring in and out
- Configuration Feature
  - Push-button used to reset device after a current interruption
- Fuse
  - Slow-blow fuse
- Switching Capacity
  - Switching capacity: 6x IN for nominal currents 0.25 A to 4 A
- Life Expectancy
  - Life expectancy: 3000 cycles
- Testing
  - Passes manufacturer's test before shipping
- Extended Support
  - Extended support options are available from Wavetronix; contact a Wavetronix representative for more information
- Warranty
  - One-year warranty against material and workmanship defect

Click 222 Specifications

- Physical
  - Weight: 0.35 lbs (0.15 kg)
  - Physical dimensions: 4.5 in. × 4 in. × 0.9 in. (11.4 cm x 10.2 cm x 2.3 cm)
  - Ambient operating temperature: -29°F to 165°F (-34°C to 74°C)
  - Humidity: up to 95% RH
- Mounting
  - DIN rail–mountable
  - Hot-swappable
- Connections
  - Pluggable screw terminals for easy pre-wiring: 1 pair for DC power, 2 terminals for protective earth, 4 pairs for RS-485 communication (485A, 485B, 485C, 485D)
  - 3 RJ-11 jacks for connecting to detector rack cards: one connected to 485A, one to 485B, one to 485C and 485D
  - 5-position connector for power and RS-485 to and from the T-bus
- Communications
  - Routes RS-485 communications between screw terminals, 5-position connector, and RJ-11 jacks
  - RJ-11 jacks labeled RS-485 A and RS-485 B send contact closure information to rack cards
  - RJ-11 jack labeled RS-485 Bridge connects to the device's control bridge, which electrically isolates RS-485 buses connected to it for more reliable communication; also connected to T-bus
- Three-stage Protection
  - First stage: gas tubes
  - Second and third stages: inductors and TVS diodes (power) or resistors and TVS diodes (communication)
- DC Power Protection
  - Complies with the applicable standards stated in the IEC 61000-4-5 class 4 standard for DC power lines
  - Maximum working voltage: 28 V
  - Test results available for the following test conditions: surge voltages ±0.5kVA, 1kVA, 2kVA and 4kVA; common mode (input to ground); differential mode (input to input); 8x20µs waveform; 2 ohm generator impedance; 1-minute pause between surges
- RS-485 Protection
  - Complies with the applicable standards stated in the IEC 61000-4-5 class 4 standard for communication lines
  - Maximum working voltage: 5 V
  - Test results available for the following test conditions: surge voltages ±0.5kVA, 1kVA, 2kVA and 4kVA; common mode (input to ground); differential mode (input to input); 8x20µs waveform; 12 ohm generator impedance; 1-minute pause between surges
- NEMA TS2-1998 Testing
  - Complies with the applicable standards stated in the NEMA TS2-1998 Standard
  - Test results available for each of the following tests: 300 V positive/negative pulses applied at one pulse per second at minimum and maximum DC supply voltage; stored at -49°F

(-45°C) for 24 hours; stored at 185°F (85°C) for 24 hours; operation at -29.2°F (-34°C) and 10.8 VDC; operation at -29.2°F (-34°C) and 26.5 VDC; operation at 165.2°F (74°C) and 26.5 VDC; operation at 165.2°F (74°C) and 10.8 VDC

- Testing
  - Passes manufacturer's test before shipping
- Extended Support
  - Extended support options are available from Wavetronix; contact a Wavetronix representative for more information
- Warranty
  - One-year warranty against material and workmanship defect

Click 230 Specifications

- Physical
  - Weight: 0.2 lbs. (0.1 kg)
  - Physical dimensions: 0.7 in. X 2.6 in. X 3.5 in. (1.8 cm x 6.6 cm x 8.9 cm)
  - Ambient operating temperature: -40°F to 185°F (-40°C to 85°C)
- Mounting
  - DIN rail–mountable
- Power
  - Nominal operating voltage: 120 VAC
  - Nominal current In: 26 A
  - Maximum continuous operating voltage: 150 VAC
  - Maximum discharge current (8/20µS): 10 kA
- Connections
  - Eight screw terminal connections: line, neutral and ground out; line, neutral and ground in; and two testing terminals
- Surge Protection
  - Three-stage surge protection: fast-responding surge-arresting diodes; high-powered current-handling gas discharge tubes; series decoupling elements
- Extended Support
  - Extended support options are available from Wavetronix; contact a Wavetronix representative for more information
- Warranty
  - One-year warranty against material and workmanship defect

T-bus 5-screw Terminal Block Specifications

- Physical
  - Physical imensions: 0.8 in. x 0.7 in. x 0.43 in. (2 cm x 1.7 cm x 1.1 cm)
  - Weight: 0.009 lbs. (0.39 g)
  - Pitch: 0.15 in (0.38 cm)
  - Comes in left and right end models for correct assembly (this backplate comes with left end model)
- Mounting
  - DIN rail–mountable
- Power
  - Nominal current: 8 A
  - Nominal voltage: 160 V
- Connections
  - Type of connection: screw terminal connection
  - Number of positions: 5
  - Wire: 30–14 AWG
- Testing
  - Passed manufacturer's mechanical, electrical and material tests
- Warranty
  - One-year warranty against material and workmanship defect

T-bus Connector Specifications

- Physical
  - Dimensions: 1.4 in. x 1.2 in. x 0.7 in. (3.5 cm x 3 cm x 1.7 cm)
  - Weight: 0.01 lbs. (4.5 g)
  - Comes in two models: green for data and power, gray for power only
- Mounting
  - DIN rail–mountable
- Power
  - Nominal current IN: 8 A
  - Nominal voltage UN: 150 V
- Testing
  - Passed manufacturer's mechanical, electrical and material tests
- Warranty
  - One-year warranty against material and workmanship defect

End Bracket Specifications

- Physical
  - Weight: 0.01 lbs. (6.2 g)
  - Physical dimensions: 0.37 in. x 2.2 in. x 1.6 in. (0.9 cm x 5.5 cm x 4 cm)
- Mounting
  - DIN rail–mountable
- Testing
  - Passed manufacturer's mechanical and material tests
- Warranty
  - One-year warranty against material and workmanship defect

IDC to Plug IDC Terminal Blocks Specifications

- Physical
  - Physical dimensions: with plug: 0.2 in. x 2.1 in. x 2.6 in. (0.5 cm x 5.3 cm x 6.6 cm); without plug 0.2 in. x 2.1 in. x 1.45 in. (0.5 cm x 5.3 cm x 3.7 cm)

- Insulating material: PA
- Insulating material group: I
- Flammability: UL 94 V0
- Pollution degree: 3
- Ambient operating temperature: -67°F to 212°F (-55°C to 100°C)
- Plug connector comes in left, middle and right models for correct assembly
- Matching end cover protects exposed conductor

- Mounting
  - DIN rail–mountable
- Power
  - Nominal current IN: 17.5 A
  - Nominal voltage UN: 500 V
  - Maximum load current: 17.5 A
- Connections
  - Number of connections: 2
  - Terminal block base connect: insulation displacement
  - Terminal block plug connect: insulation displacement
  - Removable plug
  - Wire: 24–16 AWG
- Color Coding
  - Comes in three different models: gray (standard); green (earth ground); and blue (used to color-code plugs to ensure correct placement)
- Ground
  - Green block is grounded via metal foot to DIN rail
  - Rated surge voltage: 6 kv
  - Surge voltage category: III
  - Connection in acc. with standard: IEC 61984
- Testing
  - Passed manufacturer's mechanical, electrical and material tests
- Warranty
  - One-year warranty against material and workmanship defect

Segmented Backplate Specifications

- Physical
  - Material: aluminum
  - Thickness: 0.08 in. (0.2 cm)
  - Physical dimensions: large plate: 7 in. x 5 in. (17.8 cm x 12.7 cm); small plate(s): 4.25 in. x 3.5 in. (10.8 cm x 8.9 cm)
  - Number of DIN rails per plate: 1

15-conductor Serial Cable

- Physical
  - 15 conductors
  - All conductors: unshielded 22 AWG wire
  - Length: 10 ft. (3 m)
  - Diameter: 0.3 in. (7.7 mm)
- Electrical
  - Conductor nominal capacitance, conductor to conductor: 24.5 pF/Ft
  - Voltage rating: 300 V
- Compliances
  - NEC Article 800 Type CM (UL: 75°C)
  - UL Style 2464 (UL: 80°C, 300V)
  - UL Style 2576 (UL: 80˚C, 150V)
  - CSA CMG (CSA 60°C)
  - RoHS Compliant Directive 2002/95/EC
  - Designed to meet UL 70,000 BTU Vertical Tray Flame Test
  - Passes CSA CMG Flame TestNumber of DIN rails: 2

The advertised detection accuracy of the company's sensors is based on both external and internal testing, as outlined in each product's specification document. Although our sensors are very accurate by industry standards, like all other sensor manufacturers we cannot guarantee perfection or assure that no errors will ever occur in any particular applications of our technology. Therefore, beyond the express Limited Warranty that accompanies each sensor sold by the company, we offer no additional representations, warranties, guarantees or remedies to our customers. It is recommended that purchasers and integrators evaluate the accuracy of each sensor to determine the acceptable margin of error for each application within their particular system(s).