

Modular Switches

| | |
|-----------------|--------------|
| Project Name: | Prepared By: |
| Project Number: | Date: |
| Catalog Number: | Type: |



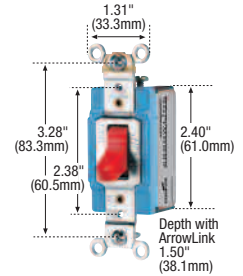
Toggle Switches

15A, 120/277V/AC
20A, 120/277V/AC
Single-Pole

Industrial Grade 15A & 20A AC Toggle Switches

FEATURES

- ArrowLink modular plug and connector incorporate a first make/last break grounding design.
- Wire leads are crimped and resistance welded to plug and connector terminals.
- Audible “click” when mating plug and connector indicates proper assembly.
- Pre-wired plugs provide 100% inspected and consistent torque settings.
- Connectors shipped with re-usable protective covering to protect from foreign matter.
- Exclusive screw terminal guards insulate conductive surfaces.
- Industrial design cam action mechanism insures quiet switch action.
- Color-coded faces identify amperage: blue=15 amp, red=20 amp.
- 0.050" (1.27mm) thick steel mounting strap, zinc-plated for corrosion resistance.
- 120/277V/AC rating ideal for fluorescent lighting fixtures typical in commercial applications.
- Lighted version toggle glows when in the off position.
- 277V versions available with different lead color combinations for local color coding requirements (*see color combination note below).



AH1201_M

Back Wire & Side Wire

15A,
120/277V



20A, 125V
120/277V



| Description | Catalog No. Color Suffix | | | Catalog No. Color Suffix | | |
|----------------------------------|---|---|---|---|---|---|
| Single-Pole, Toggle | <input type="checkbox"/> AH1201__M B, GY, RD, V, W | • | • | <input type="checkbox"/> AH1221__M B, BK, GY, LA, RD, V, W | • | • |
| Single-Pole, Toggle REPEL Switch | <input type="checkbox"/> AH1201AM__M GY, V, W | • | • | <input type="checkbox"/> AH1221AM__M GY, LA, RD, V, W | • | • |
| Single-Pole, Lighted Toggle | <input type="checkbox"/> AH1201LT__M V, W | • | • | <input type="checkbox"/> AH1221LT__M V, W | • | • |

ArrowLink Switch Connectors



| Type | Description | Catalog No. |
|-----------|--|-------------------------------------|
| ArrowLink | 120V Solid Wire Building Wire Connector | <input type="checkbox"/> MCS120SOL |
| | 120V Stranded Wire Building Wire Connector | <input type="checkbox"/> MCS120STR |
| | 277V Solid Wire Building Wire Connector | <input type="checkbox"/> MCS277SOL* |
| | 277V Stranded Wire Building Wire Connector | <input type="checkbox"/> MCS277STR* |

Patent Pending

For ordering devices, include Cat. No. followed by the color code: B (Brown), BK (Black), GY (Gray), LA (Light Almond), RD (Red), V (Ivory), W (White)

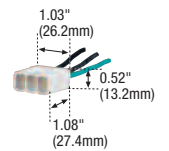
* For custom 277V lead color combinations, include Cat. No. followed by 3 color code indicators, one for each lead, in the Line (LI)/Load (LO)/Ground (±) sequence: B (Brown), E (Green), G (Gray), K (Black), L (Blue), N (Orange), P (Pink), R (Red), Y (Yellow); ex. Switch AH1221VMYBE or Connector MCS277SOLYBE (“Y” Yellow, “B” Brown, “E” Green)

** Lead color sequences other than Black/Black/Green for switches or connectors will add 2 days to lead times

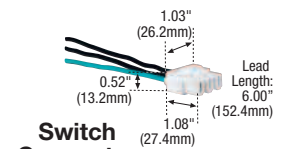
Lead Color Configuration



(enlarged)



Switch Plug



Switch Connector

Icon Key

Build-To-Spec Customizable Devices

NAFTA Compliant, see Arrow Hart Buyer's Guide pg O-30 for more information

TESTING & CODE COMPLIANCE

- Base Device: cULus Listed to UL 20, file no. E18704; UL verified to Federal Spec. WS-896; NOM Certified
- ArrowLink: Plug & connector cULus Listed to UL 2459 file no. E325188
- Combined: cULus Listed wiring assembly, UL file no. E326691

MATERIAL CHARACTERISTICS

- Nylon with PVC terminal guards, except single: adhesive terminal barrier
- Environmental, Base Device: Flammability meets UL 94 requirements; V2 rated; temperature rating: -20°C to 90°C (-4°F to 194°F), except single: -20°C to 60°C (-4°F to 140°F)
- Environmental, ArrowLink: Flammability meets UL 94 requirements; V2 rated; temperature rating: -20°C to 90°C (-4°F to 194°F) max.

Modular Switches Specification & Performance Data

| | |
|-----------------|--------------|
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Industrial Specification Grade ArrowLink Modular Switches

15A, 120/277V/AC
20A, 120/277V/AC
Single-Pole

Application

ArrowLink Modular Switches incorporate the most durable design elements in the industry and are horsepower rated to handle motor loads. Safety barriers provide insulation from conductive surfaces. Patent-pending modular plug and connector provide consistent high quality circuit connections and reduce overall installation time on the job.

| | Switch Type | Industrial Grade Toggle: AH1201_M, AH1221_M Series; ArrowLink: MCS120_ , MCS277_ Series | |
|-------------------------------|------------------------------------|--|---|
| Wiring Type | Base Device | Back & side wire | |
| | ArrowLink | Integral wire leads, crimped & resistance welded | |
| | ArrowLink SPD | Backwire feed through | |
| Testing & Code Compliance | Base Device | <ul style="list-style-type: none"> cULus Listed to UL 20, file no. E18704 UL verified to Federal Spec. WS-896 NOM certified | |
| | REPEL Devices | Agion® Antimicrobial Additive Regulatory Approvals: EPA, FDA, NSF, USDA | |
| | ArrowLink | Plug & connector cULus Listed to UL 2459 file no. E325188 | |
| | Combined Devices | cULus Listed wiring assembly, UL file no. E326691 | |
| Specifications: Environmental | Base Device | Flammability | Meets UL 94 requirements; V2 rated |
| | | Temperature Rating | -20°C to 65°C (-4°F to 149°F) |
| | ArrowLink | Flammability | Meets UL94 requirements; V2 rated |
| | | Temperature Rating | -20°C to 90°C (-4°F to 194°F) max. |
| Specifications: Electrical | Base Device | Max. Working Voltage, Continuous Current & Endurance | Maximum working voltage 277V/AC; Max. cont. current: 15A, 20A Endurance: 50,000 cycles min. |
| | | Overload | Minimum 4.8 times rated current for 100 cycles |
| | | Temperature Rise | Max. 30°C (86°F) after 250 cycles of overload @ 200% of rated current (DC) |
| | | Horsepower Ratings | Horsepower rated for motor loads per UL 20: 15A @ 120V/AC = 1/2 HP; 15A @ 240V/AC = 2 HP; 20A @ 120V/AC = 1 HP; 20A @ 240V/AC = 2 HP |
| | ArrowLink | Max. Working Voltage & Continuous Current | Maximum working voltage 300V/AC; Maximum continuous current: 20A |
| | | Overload | Overload: 52.5A/AC for 10 cycles |
| | | Dielectric Voltage | Withstands 1600V per UL 2459 |
| | | Current Interrupting | Limited cycles at full-rated current |
| | | Temperature Rise | Temperature Rise: Max. 50°C (122°F) while conducting 35A after 10 cycles of overload @ 52.5A / AC |
| | | | |
| Specifications: Mechanical | Base Device Terminal Accommodation | #14 - #10 AWG | |
| | ArrowLink Wire Leads | #12 AWG | |
| | ArrowLink SPD Ground | Integral THHN #12 AWG 6" lead with ring terminal and #10 ground screw | |
| | Voltage Ratings | Permanently marked on device | |
| Materials: | Base Device | Toggle | Urea, except REPEL devices: polycarbonate with Agion® Antimicrobial Additive |
| | | Top & Bottom Housing | Phenolic, top is color coded by amperage |
| | | Strap | 0.05" thick galvanized steel |
| | | Auto Ground Clip | 0.030" thick brass |
| | | Terminals | 0.031" thick brass |
| | | Terminal & Ground Screws | #8-32 brass, black screw; ground: #8-32 steel, zinc plated, green |
| | | Contacts | Silver alloy |
| | | Moveable Contact Arm | 0.031" thick brass |
| | | Pressure Plate | 0.068" thick brass |
| | | Illuminated Models | Long-life neon bulb |
| | ArrowLink | ArrowLink Housing | Polycarbonate |
| | | ArrowLink Contacts | Copper alloy |
| | | ArrowLink Wire Leads (where applicable) | Solid or stranded THHN #12 AWG |

NOTE: REPEL products do not protect the user against disease causing organisms and ongoing regular cleaning practices should be maintained. Agion is a registered trademark of Agion Technologies, Inc., Wakefield, MA

Specifications subject to change without notice.