

# Arrow Hart extra heavy-duty industrial grade AC toggle switches

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

## Description

Single pole, double pole, 3-way, 4-way  
15A, 20A & 30A, 120/277V/AC

## Design features

- 120/277V/AC rating ideal for fluorescent lighting fixtures typical in commercial applications
- Lighted version toggle glows when in the OFF position
- Color-coded faces identify amperage: blue=15 amp, red=20 amp, green=30 amp
- 0.050" (1.27mm) thick steel mounting strap, nickel plated for corrosion resistance (pilot light and lighted switch straps are zinc plated)



AH1223W



3031V



AH1201PL

Table 1. AC toggles switches, back & side wire

Catalog No.	Description	Rating		Color Suffix
		A	V/AC	
<input type="checkbox"/> AH1201__	Single pole toggle switch	15	120/277	B, GY, RD, V, W
<input type="checkbox"/> AH1202__	Double pole toggle switch	15	120/277	B, GY, V, W
<input type="checkbox"/> AH1203__	3-way toggle switch	15	120/277	B, GY, RD, V, W
<input type="checkbox"/> AH1204__	4-way toggle switch	15	120/277	B, GY, V, W
<input type="checkbox"/> AH1221__	Single pole toggle switch	20	120/277	B, BK, GY, LA, RD, V, W
<input type="checkbox"/> AH1222__	Double pole toggle switch	20	120/277	B, GY, RD, V, W
<input type="checkbox"/> AH1223__	3-way toggle switch	20	120/277	B, BK, GY, LA, RD, V, W
<input type="checkbox"/> AH1224__	4-way toggle switch	20	120/277	B, BK, GY, LA, RD, V, W
<input type="checkbox"/> 3031__	Single pole toggle switch	30	120/277	B, RD, V, W
<input type="checkbox"/> 3032__	Double pole toggle switch	30	120/277	B, RD, W

Table 2. Lighted AC toggle switches, back & side wire

Catalog No.	Description	Rating		Color Suffix
		A	V/AC	
<input type="checkbox"/> AH1201LT__	Single pole lighted toggle switch	15	120/277	V, W
<input type="checkbox"/> AH1203LT__	3-way lighted toggle switch	15	120/277	V, W
<input type="checkbox"/> AH1221LT__	Single pole lighted toggle switch	20	120/277	V, W
<input type="checkbox"/> AH1223LT__	3-way lighted toggle switch	20	120/277	V, W

Table 3. Pilot light switches, back & side wire

Catalog No.	Description	Rating		Color Suffix
		A	V/AC	
<input type="checkbox"/> AH1201PL	Single pole pilot light toggle switch	15	120/277	RD
<input type="checkbox"/> AH1202PL	Double pole pilot light toggle switch	15	120/277	RD
<input type="checkbox"/> AH1221PL	Single pole pilot light toggle switch	20	120/277	RD
<input type="checkbox"/> AH1222PL	Double pole pilot light toggle switch	20	120/277	RD
<input type="checkbox"/> 3032PL	Double pole pilot light toggle switch	30	120/277	RD



Powering Business Worldwide

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## Applications

Arrow Hart extra heavy-duty industrial grade AC toggle switches incorporate the most durable design elements in the industry and are horsepower rated to handle motor loads.

**Table 4. Specifications**

Catalog No.	AH1200 and AH1220 Series	AH1200 and AH1220 Lighted and Pilot Light Series	3030 Series
<b>Device Type</b>	<b>Extra Heavy-Duty Industrial Grade Toggle Switches</b>	<b>Extra Heavy-Duty Industrial Grade Toggle Switches</b>	<b>Extra Heavy-Duty Industrial Grade Toggle Switches</b>
<b>Wiring Type</b>	Back & side wire	Back & side wire	Back & side wire
<b>Testing &amp; Code Compliance</b>	<b>cULus Listed</b> to UL 20, file no. E18704 <b>UL Verified</b> to Federal Spec WS-896-F	<b>cULus Listed</b> to UL 20, file no. E18704 <b>UL Verified</b> to Federal Spec WS-896-E <b>CSA Certified</b> to C22.2, no. 111, file no. 10016 (6241-05)	<b>cULus Listed</b> to UL 20, file no. E18704 <b>UL Verified</b> to Federal Spec WS-896-F
<b>Environmental Specifications</b>	<b>Flammability:</b> Meets UL94 requirements; V2 rated <b>Temperature Rating:</b> -20°C to 60°C (-4°F to 140°F)	<b>Flammability:</b> Meets UL94 requirements; V0 rated <b>Temperature Rating:</b> -20°C to 60°C (-4°F to 140°F)	<b>Flammability:</b> Meets UL94 requirements; V0 rated <b>Temperature Rating:</b> -20°C to 60°C (-4°F to 140°F)
<b>Electrical Specifications</b>	<b>Dielectric Voltage:</b> Withstands 1500V per UL 20 <b>Current Interrupting:</b> Yes, at full-rated current <b>Temperature Rise:</b> Max. 30°C (86°F) after 100 cycles of overload and 30,000 cycles of endurance testing	<b>Dielectric Voltage:</b> Withstands 1500V per UL 20 <b>Current Interrupting:</b> Yes, at full-rated current <b>Temperature Rise:</b> Max. 30°C (86°F) after 100 cycles of overload and 30,000 cycles of endurance testing	<b>Dielectric Voltage:</b> Withstands 1500V per UL 20 <b>Current Interrupting:</b> Yes, at full-rated current <b>Temperature Rise:</b> Max. 30°C (86°F) after 100 cycles of overload and 30,000 cycles of endurance testing
<b>Mechanical Specifications</b>	<b>Terminal Accommodation:</b> #14 - 10 AWG <b>Voltage Ratings:</b> Permanently marked on device <b>Horsepower Ratings:</b> Rated for loads per UL 20: <b>15A:</b> @ 120V/AC = 1/2 HP, @ 240V/AC = 2 HP; max. amps 12A <b>20A:</b> @ 120V/AC = 1 HP, @ 240V/AC = 2 HP; max. amps 16A	<b>Terminal Accommodation:</b> #14 - 10 AWG <b>Voltage Ratings:</b> Permanently marked on device <b>Horsepower Ratings:</b> Rated for loads per UL 20: <b>15A:</b> @ 120V/AC = 1/2 HP, @ 240V/AC = 2 HP; max. amps 12A <b>20A:</b> @ 120V/AC = 1 HP, @ 240V/AC = 2 HP; max. amps 16A	<b>Terminal Accommodation:</b> #14 - 10 AWG <b>Voltage Ratings:</b> Permanently marked on device <b>Horsepower Ratings:</b> Rated for loads per UL 20: <b>30A:</b> @ 120V/AC = 1 HP, @ 240V/AC = 2 HP; max. amps 24A

**Table 5. Materials**

Catalog No.	AH1200 and AH1220 Series	AH1200 and AH1220 Lighted and Pilot Light Series	3030 Series
<b>Device Type</b>	<b>Extra Heavy-Duty Industrial Grade Toggle Switches</b>	<b>Extra Heavy-Duty Industrial Grade Toggle Switches</b>	<b>Extra Heavy-Duty Industrial Grade Toggle Switches</b>
<b>Toggle</b>	Nylon	Urea	Nylon
<b>Top Housing</b>	Polycarbonate, color-coded by amperage	Urea, color-coded by amperage	Polycarbonate, color-coded green
<b>Bottom Housing</b>	Polycarbonate	Phenolic	Polycarbonate
<b>Strap</b>	0.050" thick steel, nickel plated	0.050" thick steel, zinc plated	0.050" thick steel, nickel plated
<b>Auto Ground Clip</b>	0.015" thick brass	0.030" thick brass	0.015" thick brass
<b>Terminals</b>	0.030" thick brass	0.031" thick brass	0.030" thick high performance copper alloy
<b>Terminal Screws</b>	#10-32 brass, black	#8-32 brass, black	#10-32 brass, neutral screw nickel plated
<b>Ground Screw</b>	#8-32 steel, zinc plated, green	#8-32 steel, zinc plated, green	#8-32 steel, zinc plated, green
<b>Back wire Clamp</b>	0.070" plated steel (terminal screws), 0.50" (ground screw)	0.068" thick brass	0.070" plated steel (terminal screws), 0.50" (ground screw)
<b>Contacts</b>	Silver alloy	Silver alloy	Silver alloy
<b>Moveable Contact Arm</b>	0.030" thick brass	0.031" thick brass	0.031" thick brass
<b>Illuminated Models</b>	N/A	Long-life neon bulb	N/A
<b>Pilot Light Models</b>	N/A	Red polycarbonate toggle with long-life neon bulb	Red polycarbonate toggle with long-life LED

**Table 8. Color Ordering Information**

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

<b>B</b>	<b>BK</b>	<b>GY</b>	<b>LA</b>	<b>RD</b>	<b>V</b>	<b>W</b>
(Brown)	(Black)	(Gray)	(Light Almond)	(Red)	(Ivory)	(White)

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

### Product Dimensions

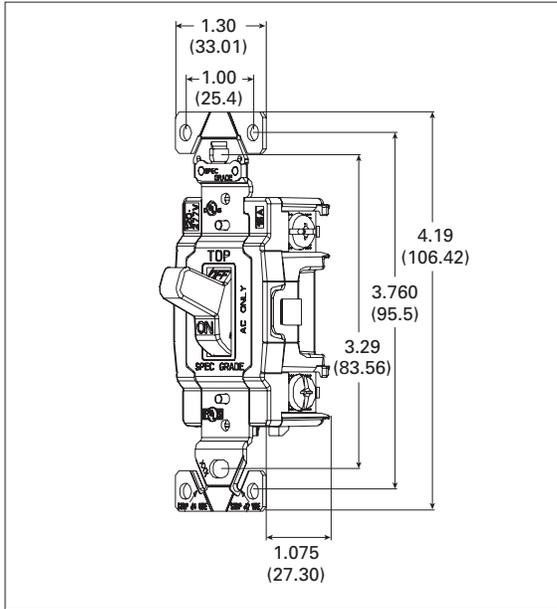


Figure 1. AH1200 Series

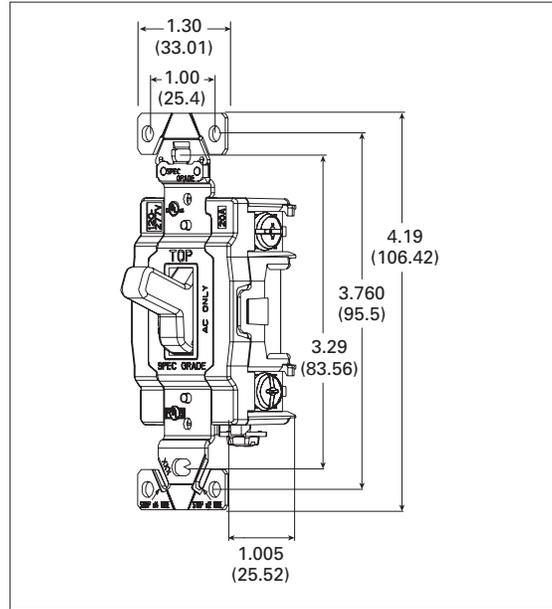


Figure 2. AH1200 Series

### Certifications & Compliances

Catalog No.	cULus	FULS	NOM 426	NAFTA
AH1201	•	•	•	
AH1202	•	•	•	
AH1203	•	•	•	
AH1204	•	•	•	
AH1221	•	•	•	
AH1222	•	•	•	
AH1223	•	•	•	
AH1224	•	•	•	

Catalog No.	cULus	FULS	NOM 426	NAFTA
AH1201LT	•	•	•	•
AH1203LT	•	•	•	•
AH1221LT	•	•	•	•
AH1223LT	•	•	•	•
AH1201PL	•	•	•	•
AH1202PL	•	•	•	•
AH1221PL	•	•	•	•
AH1222PL	•	•	•	•
3032PL	•	•	•	

**KEY:** cULus FULS NOM 426 NAFTA

Compliances, specifications and availability are subject to change without notice.

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