

POWER MONITORING & PROTECTION



ACI CURRENT-OPERATED SWITCHES A/ACS, A/ASCS, A/CS, A/SCS, A/CR SERIES

DESCRIPTION

The **ACI current switches** are solid-state devices that operate when the sensed AC current level exceeds a fixed or adjustable trip point. The **A/CS Series** is solid-core with a fixed trip point. The **A/SCS Series** is split-core with a fixed trip point. The **A/ACS Series** is solid-core with adjustable trip point. The **A/ASCS Series** is split-core with adjustable trip point. All models monitor either a 0-200 or 0-250 amp current flow in the wire and are available in normally-open or normally-closed configurations. The **A/CR Series** command relay brings control to monitoring applications.

FEATURES

- Available in solid or split-core
- Fixed or adjustable trip points
- Switches AC or DC circuits
- Status LED's
- Integral DIN rail mount
- Powered by monitored line
- Enclosure rated UL94-5VB
- Pilot duty rated (A/CR Series)



A/ACS2, A/ACS2



A/SCS2, A/ASCS2



A/CR-D-12A



SPECIFICATIONS

Supply Voltage	None required	Deadband	10% Setpoint
Frequency	40 Hz to 1 kHz	Operating Temperature	5° to 104°F (-15° to 40°C)
Outputs		Operating Humidity	0 to 95% RH, (non-condensing)
Normally Open	0.2A @ 200 VAC/VDC	Enclosure Rating	NEMA 1
Normally Closed	0.15A @ 300 VAC/VDC	Mounting	DIN rail (35 mm) or screw (1" between units)
Trip Points	See ordering information	Termination	Screws (16-22 awg)
Isolation Rating	2200 VAC	Window Size	0.75" (1.9 cm)
Insulation Class	600 VAC	Approvals	UL File #E309723, CE, RoHs
LED Indication		Warranty	5 years, limited
Adjustable	Red = Above trip point Blue = Below trip point		
Fixed	Red = Above trip point		

RELAY SPECIFICATIONS (COMMAND RELAY)

A/CR-DC-5A		A/CR-DC-12A		A/CR-12DC-12A	
Relay Type	Contact Rating	Relay Type	Contact Rating	Relay Type	Contact Rating
SPDT	5A @ 250 VAC General Use	SPDT	12A @ 250 VAC General Use	SPDT	12A @ 250 VAC General Use
Coil Voltage	5A @ 125 VAC Resistive	Coil Voltage	12A @ 125 VAC Resistive	Coil Voltage	12A @ 250 VAC Resistive
23-31.2 VDC	5A @ 30 VAC Resistive	20-31.2 VDC	12A @ 30 VAC Resistive	10-15.6 VDC	12A @ 30 VDC Resistive
Coil Current	1/4HP, 120/250/277 VAC	Coil Current	1/2HP, 120/250/480 VAC-NC	Coil Current	1/2HP, 120/240/480 VAC-NC
15mA @ 24 VDC	C 150 Pilot Duty	16mA @ 24 VDC	A300 Pilot Duty	30mA @ 24 VDC	A300 Pilot Duty
A/CR-24AC-10A		A/CR-115AC-8A		A/CR-230AC-8A	
Relay Type	Contact Rating	Relay Type	Contact Rating	Relay Type	Contact Rating
SPDT	10A @ 250 VAC General Use	SPDT	8A @ 250 VAC General Use	SPDT	8A @ 250 VAC General Use
Coil Voltage	10A @ 250 VAC Resistive	Coil Voltage	8A @ 250 VAC Resistive	Coil Voltage	8A @ 125 VAC Resistive
16-25.4 VAC	10A @ 30 VAC Resistive	80-132 VAC	8A @ 30 VAC Resistive	165-264 VAC	8A @ 30 VAC Resistive
Coil Current	1HP, 120/240/480 VAC-NO	Coil Current	1HP, 120/240/480 VAC-NO	Coil Current	1HP, 120/240/480 VAC-NO
28mA @ 24 VAC	1/2HP, 120/240/480 VAC-NO	10mA @ 115 VAC	1/2HP, 120/240/480 VAC-NC	5mA @ 230 VDC	1/2HP, 120/240/480 VAC-NC
	A300 Pilot Duty		A300 Pilot Duty		A300 Pilot Duty

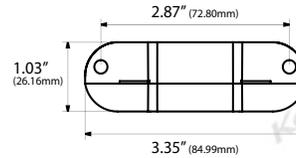
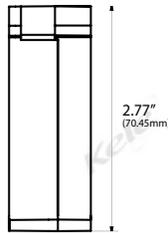
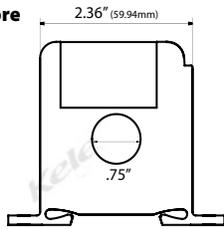
POWER MONITORING & PROTECTION

ACI CURRENT-OPERATED SWITCHES

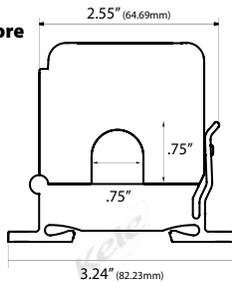
A/ACS, A/ASCS, A/CS, A/SCS, A/CR SERIES

DIMENSIONS FOR A/ACS2, A/ASCS2, A/CS2, A/SCS2 SERIES

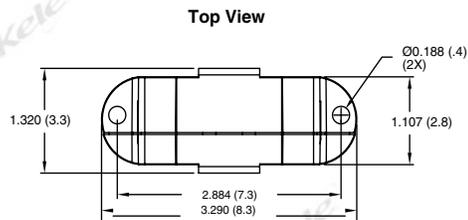
Solid-Core



Split-Core

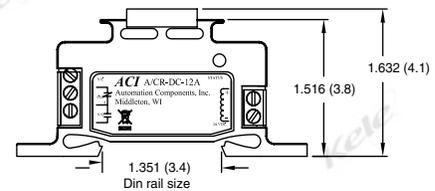


Front View



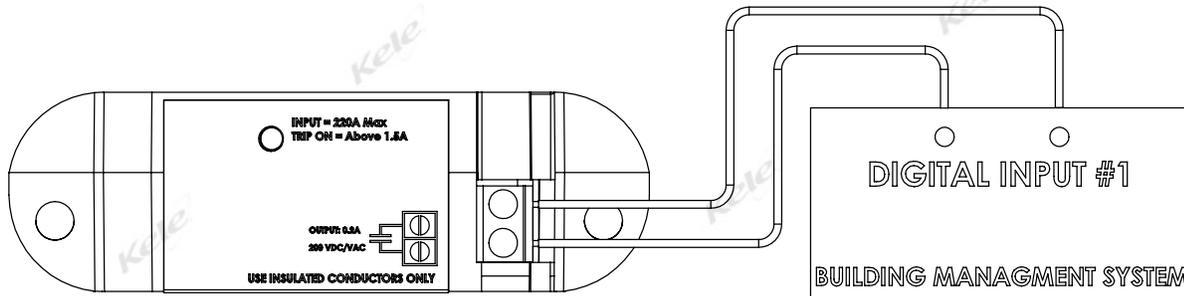
A/CR Series

Front View



A/CR Series

WIRING



ORDERING INFORMATION

MODEL

A/ACS2

A/ACSX2

A/ASCS2

A/ASCS2-L

A/ASCSX2

A/CS2

A/CSX2

A/SCS2

A/SCS2-L

A/SCSX2

DESCRIPTION

Solid current switch, ADJ trip 0.5-220A, NO

Split current switch, ADJ trip 0.5-220A, NC

Split current switch, ADJ trip 1.5-220A, NO

Split current switch, ADJ trip 0.6-180A, NO

Split current switch, ADJ trip 1.5-220A, NC

Solid current switch, FIXED 0.25A trip, NO, 0-250A

Solid current switch, FIXED 0.25A trip, NC, 0-250A

Split current switch, FIXED 1.5A trip, NO, 0-200A

Split current switch, FIXED 0.5A trip, NO, 0-200A

Split current switch, FIXED 1.5A trip, NC, 0-200A

A/CR-DC-5A

A/CR-DC-12A

A/CR-12DC-12A

A/CR-24AC-10A

A/CR-115AC-8A

A/CR-230AC-8A

ACCESSORIES

Relay 5 Amp SPDT, 23-31.2 VDC coil voltage

Relay 12 Amp SPDT, 20-31.2 VDC coil voltage

Relay 12 Amp SPDT, 10-15.6 VDC coil voltage

Relay 10 Amp SPDT, 16-26.4 VAC coil voltage

Relay 8 Amp SPDT, 80-132 VAC coil voltage

Relay 8 Amp SPDT, 165-264 VAC coil voltage