Autonics ACS Series Common Terminal Block





## **Autonics ACS Series Common Terminal Block User Manual**

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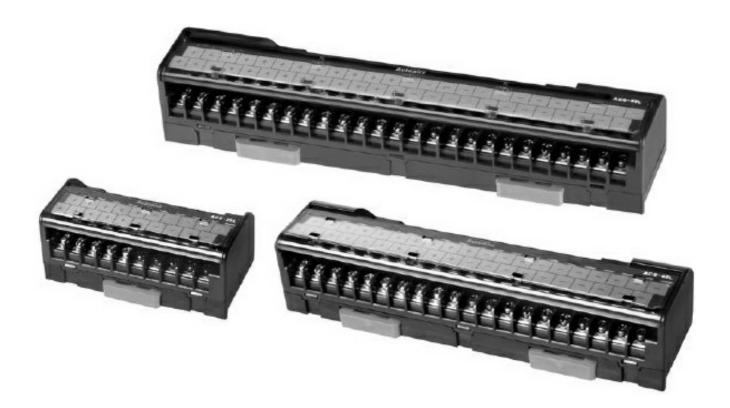


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# **Autonics**

**Autonics ACS Series Common Terminal Block** 



#### **Product Information**

## **Specifications**

• Model: ACS-20L, ACS-20T, ACS-40L, ACS-40T, ACS-50L, ACS-50T

• Item: Common terminal block

• Terminal Type: Screw

• Number of Terminals: 20EA, 40EA, 50EA

• Applicable Crimp Terminal:

ACS-20L and ACS-20T: B, A

ACS-40L and ACS-40T: C, D

• ACS-50L and ACS-50T: C, D

## **Caution for Your Safety**

Please keep these instructions and review them before using this unit. Observe the following for safety:

- Warning: Serious injury may result if instructions are not followed.
- Caution: Product may be damaged or injury may result if instructions are not followed.

## **Symbols Used in the Operation Manual**

- Caution: Injury or danger may occur under special conditions.
- · Warning:

## **Usage Instructions**

#### Installation

- 1. In case of using this unit with machinery (Ex: nuclear power control, medical equipment, ship, vehicle, train, airplane, combustion apparatus, safety device, crime/disaster prevention equipment, etc) which may cause damages to human life or property, it is required to install fail-safe device. It may cause a fire, human injury or damage to property.
- 2. Do not repair or check units during power on. It may cause a fire or electric shock.
- 3. Do not use this unit in a place where there are flammable or explosive gas, humidity, direct ray of the sun, radiant heat, vibration, impact, etc. It may cause a fire or explosion.
- 4. Do not disassemble and modify this unit. Please contact us if it is required. It may cause a fire, electric shock, or damage to the product.

#### **Usage Precautions**

- 1. This unit shall not be used outdoors. It may shorten the life cycle of the product or cause electric shock.
- 2. Please observe the rated specifications. It may shorten the life cycle of the product and cause a fire.
- 3. In cleaning the unit, do not use water or organic solvents. Use a dry cloth. It may cause electric shock or damage to the product.
- 4. Do not inflow dust or wire dregs into the unit. It may cause a fire or malfunction.

#### **FAQ**

- Q: Can I use this product outdoors?
  - A: No, this unit shall not be used outdoors as it may shorten the life cycle of the product or cause electric shock.
- · Q: What are the applicable wires for this terminal block?
  - A: The applicable wires are AWG 22-16 (0.30 to 1.25mm2).
- Q: What is the insulation resistance of this terminal block?
  - A: The insulation resistance is a minimum of 1,000 (at 500 megger).
- Q: What is the tightening torque for the terminal pin?
  - A: The tightening torque for the terminal pin is 0.5 to 0.6 N.m.

Thank you very much for selecting Autonics products. For your safety, please read the following before using.

## Caution for your safety

- Please keep these instructions and review them before using this unit.
- Please observe the following for safety.
- Warning Serious injury may result if instructions are not followed.
- Caution Product may be damaged, or injury may result if instructions are not followed.
- The following is an explanation of the symbols used in the operation manual.
- Caution: Injury or danger may occur under special conditions.

#### Warning

1. In case of using this unit with machinery (Ex: nuclear power control, medical equipment, ship, vehicle, train,

airplane, combustion apparatus, safety device, crime/disaster prevention equipment, etc) which may cause damages to human life or property, it is required to install fail-safe device. It may cause a fire, human injury or damage to property.

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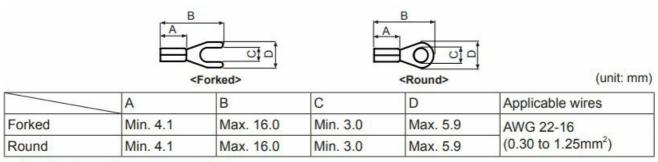
#### Caution

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- 2. Please observe the rated specifications. It may shorten the life cycle of the product and cause a fire.
- 3. In cleaning the unit, do not use water or organic solvents. And use dry cloth. It may cause electric shock or damage to the product.
- 4. Do not inflow dust or wire dregs into the unit. It may cause a fire or malfunction.

#### **Ordering information**

Model	Item	Terminal type	Number of terminals	Common type
ACS-20L	20EA Left-Right Common Top-Bottom Common	Left-Right Common		
ACS-20T  ACS-40L  ACS-40T  Comm termina block		Screw	ZUEA	Top-Bottom Common
	Common		40EA	Left-Right Common
				Top-Bottom Common
ACS-50L	5054	FOFA	Left-Right Common	
ACS-50T			50EA	Top-Bottom Common

## Applicable crimp terminal

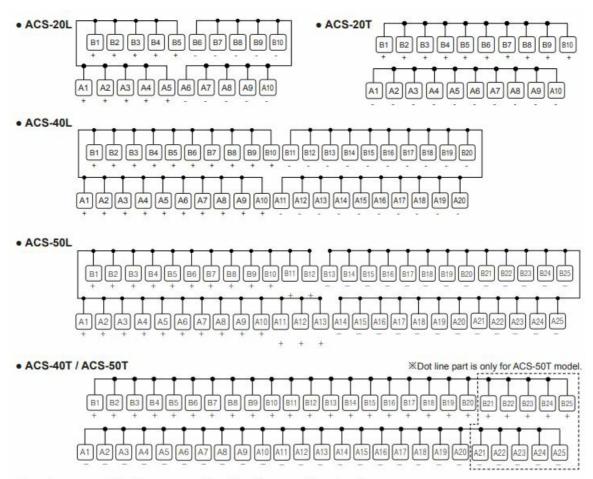


Use the UL cirtified crimpt terminal.

#### **Specifications**

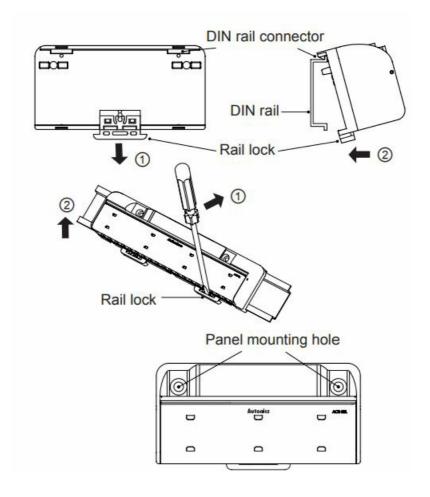
Model		ACS-20L	ACS-20T	ACS-40L	ACS-40T	ACS-50L	ACS-50T		
Rated vo	voltage Max. 125VDC, 125VAC 50/60Hz								
Rated cu	ırrent	Max. 10A			×-		94		
Commor	type	Left +COM, Right -COM	Top +COM, Bottom -COM	Left +COM, Right -COM	Top +COM, Bottom -COM	Left +COM, Right -COM	Top +COM, Bottom -COM		
Number	of terminals	20EA		40EA 50EA					
Terminal	pitch	7.0mm		*					
Applicable wires		AWG22-16 (0.30 to 1.25mm <sup>2</sup> )							
Insulation	n resistance	Min. 1,000MΩ (a	at 500VDC meg	ger)					
Dielectric strength		600VAC 50/60Hz for 1 minute							
Vibration		0.75mm amplitu	ude at frequency	of 10 to 55Hz(f	for 1 min.) in eac	h of X,Y,Z direct	tions for 2 hours		
Shock		150m/s <sup>2</sup> (15G)	in each of X, Y,	Z directions for	3 times				
Environ	Ambient temp.	-15 to 55°C, St	5 to 55°C, Storage: -25 to 65°C						
-ment	Ambient humi.	35 to 85%RH, Storage: 35 to 85%RH							
Material		CASE: MPPO,	TERMINAL PI	N: Brass					
Tightenir	ng torque	0.5 to 0.6 N·m							
Approval		C € QL usted							
Weight*	1	Approx. 92g (A	pprox. 61g)	Approx. 157g	(Approx. 115g)	Approx. 189g	(Approx. 141g)		

## Wire connections



The above specifications are subject to change without notice.

### Installation



## • 1. Mounting to and Removing from DIN rail.

- Mounting
  - 1) Push rail lock to the direction "1".
  - 2) Hook DIN rail connector onto DIN rail.
  - 3) Push the unit down to the direction "2" and then push up the rail lock to the unit body.

## Removing

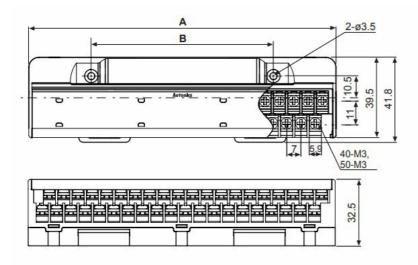
- 1) Insert a screwdriver into hole of rail lock and pull the lock out to the direction "①".
- 2) Removing the unit by pulling to the direction "2".

## 2. Mounting to panel

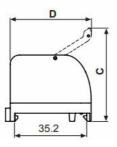
- 1) This unit is able to mount on the panel with mounting holes.
- 2) It is recommended to use M3×30mm of spring washer screws and to use flat washers which are diameter ø6.

The tightening torque should be 0.5 to 0.7N·m.

#### **Dimensions**



	ACS-40L(T)	ACS-50L(T)	
Α	150	184	
В	89	104	
С	45.8	48.9	
D	39.7	34.8	



#### Caution for using

- 1. This unit shall not be used beyond specified temperature or humidity range.
- 2. Maintain voltage fluctuations in the power supply within specified range.
- 3. When connecting PLC or other controllers, check the polarity of power and COMMON before wiring.
- 4. Use AWG 16(1.25mm2) wire and applicable crimp terminals to the terminal block.
- 5. Turn OFF the power supply before wiring.
- 6. Do not use this unit at below places.
  - ①Place where there is severe vibration or impact.
  - ②Place where strong alkalis or acids are used.
  - 3 Place where there are direct ray of the sun.
  - Place where strong magnetic field or electric noise are generated.
- 7. Installation environment.
  - 1 lt shall be used indoor
  - ②Altitude Max. 2,000m
  - 3 Pollution Degree 2
  - @Installation Category II

It may cause malfunction if above instructions are not followed.

## **Major products**

- · Photoelectric sensors
- I Fiber optic sensors
- · I Door sensors
- Door side sensors
- · Area sensors
- · I Proximity sensors
- I Pressure sensors
- · I Rotary encoders
- 1 Connector/Sockets
- · Switching mode power supplies

- Control switches/Lamps/Buzzers
- 1/0 Terminal Blocks & Cables
- Stepper motors/drivers/motion controllers
- Graphic/Logic panels
- · Field network devices
- Laser marking system(Fiber, COz, Nd: YAG)
- · Laser welding/soldering system
- Temperature controllers
- Temperature/Humidity transducer
- SSR/Power controllers
- Counters
- Timers
- · Panel meters
- Tachometer/Pulse(Rate) meters
- · Display units
- · Sensor controllers

Autonics Corporation http://ww.autonics.com Satisfiable Partner For Factory Automation

#### **HEAD QUARTERS:**

• 116, Ungbigongdan-gil, Yangsan-si, Gyeongsangnam-do, Korea

#### **OVERSEAS SALES:**

- #402-404, Bucheon Techno Park, 655, Pyeongcheon-ro, Wonmi-gu, Bucheon, Gyeonggi-do, Korea
- TEL: 82-32-610-2730 / FAX: 82-32-329-0728
- E.mail: calac@alitonice.com

The proposal of a product improvement and davalanmant.

• nroduct@autonice.com

## **Documents / Resources**



## Autonics ACS Series Common Terminal Block [pdf] User Manual

ACS-20L, ACS Series Common Terminal Block, Common Terminal Block, Terminal Block, ACS-20T, ACS-40L, ACS-50L, ACS-50T



#### Autonics ACS Series Common Terminal Block [pdf] Instruction Manual

ACS-20L, ACS Series Common Terminal Block, Common Terminal Block, Terminal Block, ACS-20T, ACS-40L, ACS-40T, ACS-50L, ACS-50T

#### References

- A autonics.com
- Manual-Hub.com Free PDF manuals!
- User Manual

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