Common Terminal Block (screwless type)

■ Features

- Screwless push-in type for simple and easy connection
- No jumper bars required due to built-in common PCB
- For use as power supply expansion terminals
- Slim and compact design with 5mm terminal pitch
- 2 mounting methods (DIN rail, screw mount)

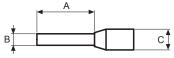




Please read "Safety Considerations" in instruction manual before using. Ordering Information

Model	Item	Terminal type	The number of terminal	Common type
ACL-20L	Common terminal block	Screwless		Left-Right common
ACL-20T			20	Up-Down common
ACL-40L			40	Left-Right common
ACL-40T			140	Up-Down common
ACL-50L				Left-Right common
ACL-50T			50	Up-Down common

Crimp Terminal Specifications



(unit: mm)

NEW

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	А	В	С	Applicable wire
End Sleeve (ferrule terminal) crimp terminal	10 to 12.0	≤ 2.0	≤ 4.1	AWG22-16 (0.30 to 1.25mm ²)

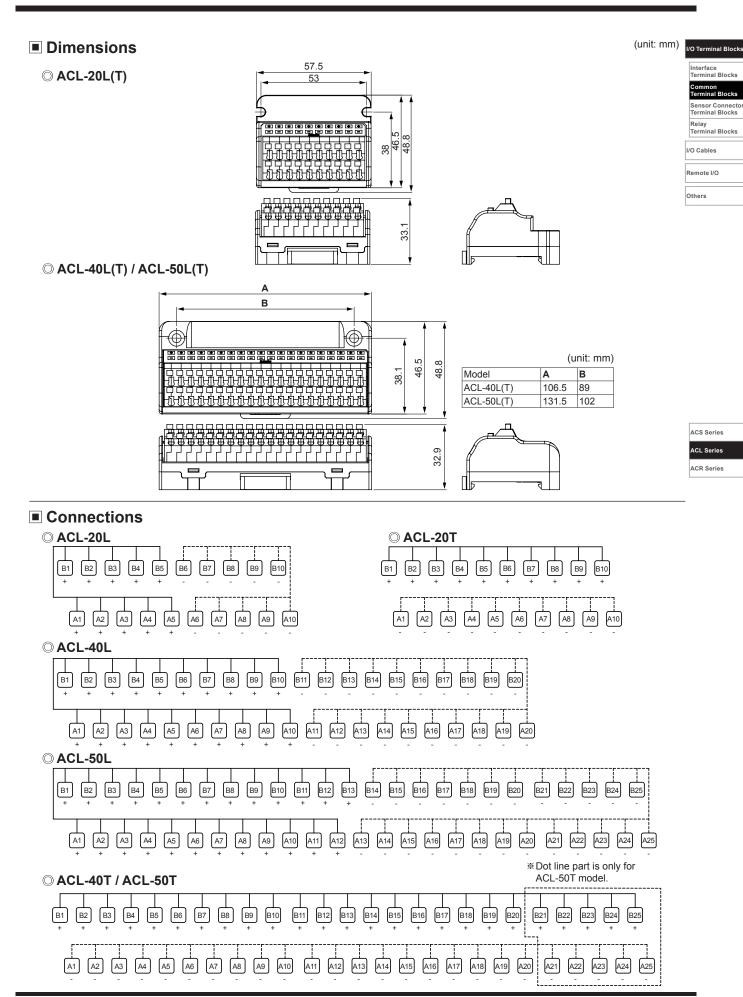
 [★]Use the UL certified crimp terminal

Specifications

Model		ACL-20L	ACL-40L	ACL-50L	ACL-20T	ACL-40T	ACL-50T		
Rated volta	age	250VDC=-, 250VAC~ 50/60Hz							
Rated curr	ent	≤10A							
Common type		Left +COM / Right -COM			Top +COM / Bottom -COM				
Terminal type		Screwless							
The number of terminal		20	40	50	20	40	50		
Terminal pitch		5.0mm							
Applicable wires	Solid wire	Ø0.6 to Ø1.25mm (60°C only)							
	Stranded wire	UL: AWG22-16 (0.30 to 1.25mm²) (60 °C only)							
Stripped w	rire length	8 to 10mm							
Insulation	resistance	≥1,000MΩ (at 500VDC megger)							
Dielectric strength		3,000VAC 50/60Hz for 1 minute (between open terminals)							
Vibration	Mechanical	0.75mm amplitude at frequency of 10 to 55Hz (for 1 min) in each X, Y, Z direction for 2 hours							
	Malfunction	0.75mm amplitude at frequency of 10 to 55Hz (for 1 min) in each X, Y, Z direction for 10 minutes							
Shock	Mechanical	1,000m/s²(approx. 100G) in each X, Y, Z direction for 3 times							
	Malfunction	100m/s²(approx. 10G) in each X, Y, Z direction for 3 times							
Environment	Ambient temp.	-15 to 55°C, storage: -25 to 65°C							
	Ambient humi.	35 to 85%RH, storage: 35 to 85%RH							
Material Terminal: polyamide 66, conductive plate: copper, tin pla			ate: copper, tin plate	d, case: polycarbona	ate, base: polycarbo	onate			
Protection structure		IP20 (IEC standard)							
Approval		C € c(\(\bar{\Psi}\) us listed							
Weight ^{※1}		Approx. 71g (approx. 42g)	Approx. 146g (approx. 79g)	Approx. 164g (approx. 97g)	Approx. 71g (approx. 42g)	Approx. 146g (approx. 79g)	Approx. 164g (approx. 97g)		

[%]1: The weight includes packaging. The weight in parenthesis is for unit only. %Environment resistance is rated at no freezing or condensation.

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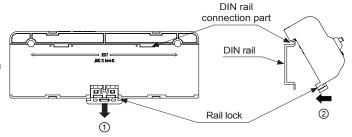
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Installation

Mounting and Removing from DIN rail

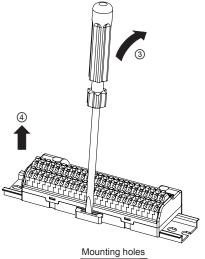
Mounting

- 1)Pull the rail lock towards direction ①.
- 2)Attach the DIN rail connection part onto the DIN rail.
- 3)Push the unit towards direction ②, then push the rail lock in to lock into position.



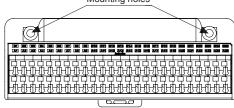
Removal

- 1)Insert a screwdriver into the rail lock hole and pull it towards direction ③.
- 2) Remove the unit by pulling the unit towards direction ④.



Mounting with screws

- 1)The unit can be mounted on panels using the mounting holes next to the hirose connector.
- 2)M4×25mm spring washer screws are recommended for installation. When using flat washers, use Ø8mm diameter washers. The tightening torque should be from 0.7 to 1.0N·m



Connecting Crimp Terminals

Connecting and removing end sleeve (ferrule terminal) crimp terminal at screwless type terminal block

Connection

1) Push the end sleeve (ferrule terminal) crimp terminal towards direction ① to complete the connection.

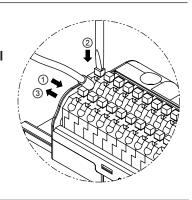
Removal

- 1) Press and hold the catch above the terminal in direction ② with a flat-head screwdriver.
- 2) Pull and remove the end sleeve (ferrule terminal) crimp terminal towards direction 3.

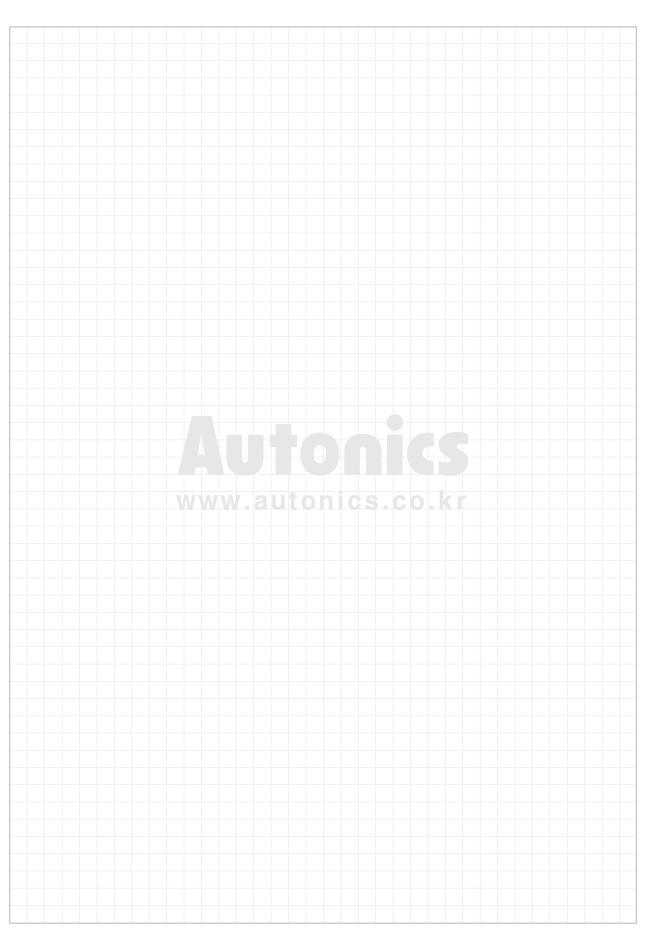
Cautions during Use

- 1. Follow instructions in 'Cautions during Use'. Otherwise, it may cause unexpected accidents.
- 2. Keep away from high voltage lines or power lines to prevent inductive noise. In case installing power line and input signal line closely, use line filter or varistor at power line and shielded wire at input signal line. Do not use near the equipment which generates strong magnetic force or high frequency noise.
- 3. This unit may be used in the following environments.
 - ①Indoors (in the environment condition rated in 'Specifications')
 - ②Altitude max. 2,000m
 - ③Pollution degree 2
 - 4 Installation category II

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Common Terminal Block



I/O Terminal Blocks

Interface Terminal Blocks

Common

Sensor Connecto Terminal Blocks

Relay Terminal Blocks

I/O Cables

Remote I/O

Others

ACS Series

ACL Series

ACR Series

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