

XTB-COM Series

User's Guide



Thank you for purchasing product of SAMWON ACT.
Please check model of product that you purchase first, and read this manual prior to use it.

• Caution for safety

Warning Case that results in serious damage in human body or equipment, and fire if user handles this equipment wrongly

Caution Case that results in slight damage in human body or equipment, and fire if user handles this equipment wrongly

Warning

1. Do not open the cover while the power is on or during operation.
It may cause electric shock.
2. Be sure to shut off the power supply from the outside before mounting and wiring.
It is cause fire or electric shock.
3. Do not use if the cable sheath is damaged.
It may cause electric shock.
4. When machining and wiring the mounting hole, do not allow foreign matter such as dust or wire covering to enter the connection terminal.
Failure to do so may result in damage to the unit, heat, or ignition.

* The connection cable for PLC of various makers is provided by us. Please refer to the catalogue or contact Head or branch office if you need more detail models and specifications.

Caution

1. Use within the specified rated voltage and rated current range.
This may result in fire or damage to the product.
2. Do not use outdoors.
Electric shock and product life may be shortened.
3. Use within the specified temperature range. (-10°C ~ +50°C)
Damage to the outer case may occur.
4. Do not use water or organic solvents for cleaning.
It may cause electric shock and damage to the product.

• Use caution

1. Use in the specified temperature and humidity.
2. Please make sure to check the internal wiring diagram of the terminal block and the arrangement of the controller PIN (terminal) when making the connection cable between the controller (PLC etc.).
3. Use AWG 24 ~ 16 (1.25mm² / MAX) for the suitable wire, and check the crimp terminal after checking the "Applicable crimp terminal" specification.
4. The device is suitable for use only within an acceptable enclosure which has mechanical rigidity.
5. Can be used under the following environmental conditions.
①Indoor ②Pollution Degree 2 ③Altitude 2,000m or less ④Installation Category II

* The above specifications are subject to change without notice.
* Please contact HQ or branch office where you purchased product for A/S of this product or technique.



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NO.202311-01-ENG-XTB-COM-UL

• Model configuration

XTB - COM

20



- Common dedicated 7.0mm pitch interface terminal block
- No. of terminal poles
- Common terminal configuration

• Model selection

Model	No. of poles	Common terminal configuration	Dimensions	Mounting method
XTB-COM20	20	Upper row 10P ⊕ / Lower row 10P ⊖ Common	80.0*40.5	Screw fastening/ DIN Rail (Channel)
XTB-COM20B		Left column 10P ⊕ / Right column 10P ⊖ Common		
XTB-COM20C		Columns A-B Common		
XTB-COM40	40	Upper row 20P ⊕ / Lower row 20P ⊖ Common	149.0*40.5	
XTB-COM40B		Left column 20P ⊕ / Right column 20P ⊖ Common		
XTB-COM40C		Columns A-B Common		

• Model/Specification

Model	XTB-COM20	XTB-COM20B	XTB-COM20C	XTB-COM40	XTB-COM40B	XTB-COM40C
Rated voltage	125VAC ~ 50/60Hz, 125VDC ≡					
Rated current	10A (Total)		3A (Line)	10A (Total)		3A (Line)
Number of terminals	20ea			40ea		
Patches between terminals	7.0mm					
Suitable wire	AWG 22 ~ 16 (1.25mm ² / MAX) (Use copper conductor only)					
Insulation resistance	100MΩ or more (500VDC ≡)					
Withstand voltage	500VAC ~ 1min					
Terminal screw	M3 X 7L					
Screw torque	1.2N·m (12kgf·cm)					
Environment resistant (Note 1)	Ambient temperature	-10°C ~ +50°C				
	Ambient humidity	35 ~ 85%RH				
Material	Terminal block	Modifide PPO				
	Cover	Polycarbonate				
	Board	Epoxy 1.6t				
Weight (Note 2)	About 90g (About 75g)			About 156g (About 136g)		

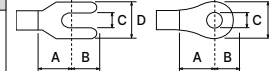
Note 1) The conditions of use are that they are not freezing or condensing.

Note 2) It is weight in packed condition, parenthesized is only the product weight.

• Applicable crimp terminal

(Unit : mm)

	A	B	C	D	Suitable wire
Y type terminal or more	5.8 or more	4.2 or less	3.0 or more	6.0 or less	AWG 22 ~ 16 (0.30 ~ 1.25mm ²)
O type terminal or more	5.8 or more	4.2 or less	3.0 or more	6.0 or less	



* Please use UL-approved crimp terminals.

• Terminal marking strips

• XTB-COM20

LINE	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	LINE
LINE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	LINE

• XTB-COM20B

LINE	+	+	+	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	LINE
LINE	+	+	+	+	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	LINE

• XTB-COM20C

B1	B2	B3	B4	B5	B6	B7	B8	B9	B10	LINE
A1	A2	A3	A4	A5	A6	A7	A8	A9	A10	LINE

• XTB-COM40

LINE	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	LINE
LINE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	LINE

• XTB-COM40B

LINE	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	LINE
LINE	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	+	LINE

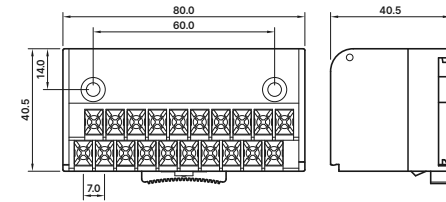
• XTB-COM40C

B1	B2	B3	B4	B5	B6	B7	B8	B9	B10	B11	B12	B13	B14	B15	B16	B17	B18	B19	B20	LINE
A1	A2	A3	A4	A5	A6	A7	A8	A9	A10	A11	A12	A13	A14	A15	A16	A17	A18	A19	A20	LINE

* It is attached to the window for user's convenience.

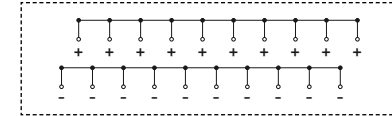
• XTB-COM20□

• Dimension

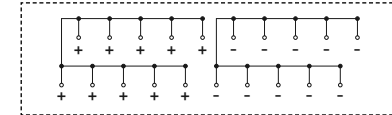


• Wiring diagram

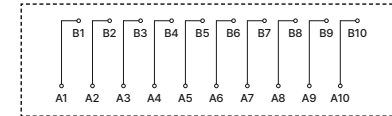
• XTB-COM20



• XTB-COM20B

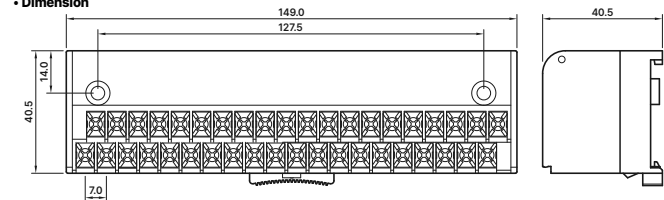


• XTB-COM20C



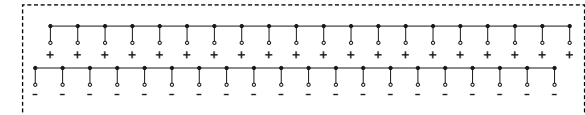
• XTB-COM40□

• Dimension

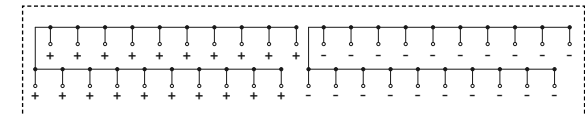


• Wiring diagram

• XTB-COM40



• XTB-COM40B



• XTB-COM40C

