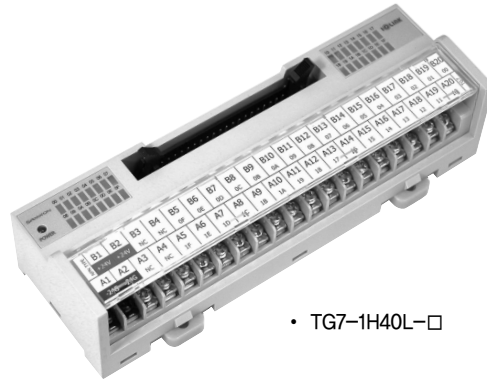


TG7-L Series Interface terminal with LED operation indicators

User's Guide



• TG7-1H20L-□



• TG7-1H40L-□

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** If you violate instructions, it can cause death, fatal injury or a considerable loss of property.
- Caution** If you violate instructions, it can cause a slight injury or a slight loss of products.

Warning

- Do Not use other voltage except appointed voltage.
It may be the cause of fire or damage of equipment.
- Use it within nominal voltage and current which are marked on load.
It may be the cause of fire or damage of equipment.
- Check COMMON polarity of using controller (PLC, etc) first, and then select proper product.
It may be the cause of fire or damage of this equipment and user's.
 - COMMON Polarity of controller is '+' (NPN TYPE) : TG7-1H20L-N□, TG7-1H40L-N□
 - COMMON Polarity of controller is '-' (PNP TYPE) : TG7-1H20L-P□, TG7-1H40L-P□
- Make controller and connection cable between relay boards after checking internal wiring of relay board and PIN (terminal or socket) array of controller if you want to make it for yourself.
It may be the cause of fire, and malfunction or damage of this equipment and user's.

※ 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

- Plug or unplug power line and/or connector for signal after making sure to shut off power so as that it is prevented to be damaged or malfunctioned.
- Read this user's guide which is attached to product, and check product's performance, specification, operation pattern, signal, and how to handle prior to use. Keep user's guide please.
- When wiring the terminal block, please tighten it with the specified torque using the appropriate tool.
If it is outside of this range torque, it may cause malfunction due to breakage or looseness of tightening surface terminal.

• Ordering information

Model		IO Point	Common	Mounting Connector Model	Cable Side Connector Model	Dimensions (W*Hmm)	Mounting Method
' Y ' Terminal	' O 'Terminal						
TG7-1H20L-N	TG7-1H20L-N-O	16Point	NPN (+COM)	HIF3BA-20PA-2.54DSA	HIF3BA-20D-2.54R	80.0*40.0	DIN Rail (Channel)
				XG4A-2031	XG4M-2030		
TG7-1H20L-P	TG7-1H20L-P-O		PNP (-COM)	HIF3BA-20PA-2.54DSA	HIF3BA-20D-2.54R		
				XG4A-2031	XG4M-2030		
TG7-1H40L-N	TG7-1H40L-N-O	32Point	NPN (+COM)	HIF3BA-40PA-2.54DSA	HIF3BA-40D-2.54R	152.3*49.5	
				XG4A-4031	XG4M-4030		
TG7-1H40L-P	TG7-1H40L-P-O		PNP (-COM)	HIF3BA-40PA-2.54DSA	HIF3BA-40D-2.54R		
				XG4A-4031	XG4M-4030		

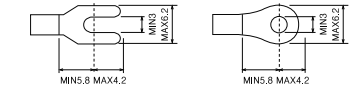
• Specifications

Rated voltage	24V DC
Rated current	1A
Operation Display	IO : LED (RED) / POWER : LED (GREEN)
LED Rating	24V DC : 100mA max. / Point
Insulation resistance	500MΩ (DC500V)
Dielectric strength	AC500V 1min
Applicable wire	AWG22~16 (MAX / 1.5mm ²)
Screw	M3 X10L
Screw torque	7~8kgf · cm (0.68~0.78 N · m)
Ambient temperature	-10℃ ~ +50℃ (No freezing)

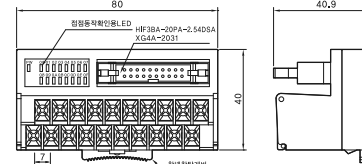
• Material

Case	Modified PPO
Protective cover	Polycarbonate
PCB	Epoxy 1.6t

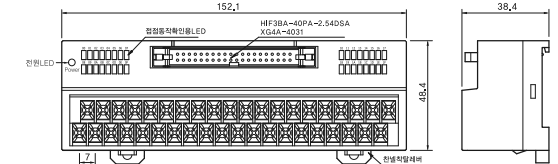
• Applicable Crimp Terminal



• Dimension • TG7-1H20L-□

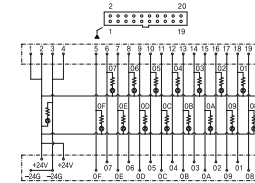


• TG7-1H40L-□

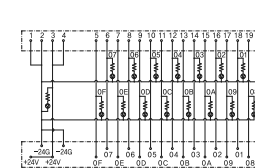


• Wiring Diagram

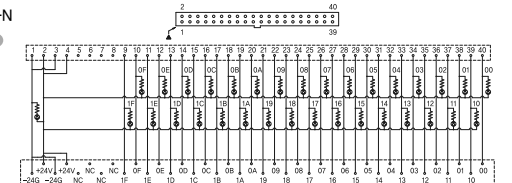
• TG7-1H20L-N (NPN) (+COM)



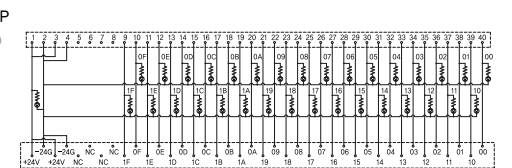
• TG7-1H20L-P (PNP) (-COM)



• TG7-1H40L-N (NPN) (+COM)



• TG7-1H40L-P (PNP) (-COM)



※ 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.