

Product lineup and combinations

When a digital signal converter (terminal module) is used

Check the compliance with the overseas standards of the products to be used in combination.

Programmable controller module IPC	Network interface module		Digital signal converter (terminal module)								
	Product	Model	Control method			Terminal block type	Model				
CC-Link IE TSN master station · MELSEC IQ-R · MELSEC IQ-F CC-Link IE Field master station · MELIPC · MELSEC IQ-R · MELSEC IQ-F · MELSEC-Q · MELSEC-L · MELSEC-F CC-Link IE Field Basic master station · MELIPC · MELSEC IQ-R · MELSEC IQ-F · MELSEC-Q · MELSEC-L SLMP client · MELIPC · MELSEC IQ-R · MELSEC IQ-F · MELSEC-Q · MELSEC-L · MELSEC-F MODBUS/TCP · MELSEC IQ-R · MELSEC-Q · MELSEC-L CC-Link master station · MELSEC IQ-R · MELSEC IQ-F · MELSEC-Q · MELSEC-L · MELSEC-F General-purpose controller (standard Ethernet)	Digital signal converter for input signals	With a dedicated cable FA3-TH1□16XC-01C Without a dedicated cable FA3-TH1□16XC	Installation base unit (module selectable type)		4 points, independent	Spring clamp	FA1-TH4X2SC20S1E				
					8 points, independent		FA1-TH8X2SC20S1E				
			Module pre-mounted type	24VDC (N/O contact)	4 points, independent (positive)	Spring clamp	FA1-TH4X24RA1L20S1E				
					4 points, independent (negative)		FA1-TH4X24RA1H20S1E				
					8 points, independent (positive)	Spring clamp	FA1-TH8X24RA1L20S1E				
					8 points, independent (negative)		FA1-TH8X24RA1H20S1E				
					16 points, independent (positive)	Spring clamp	FA1-TH16X24RA1L20S1E				
					16 points, independent (negative)		FA1-TH16X24RA1H20S1E				
					16 points, independent	Screw (M3)	FA-TH16XRA20S				
					Module built-in type	24VDC	16 points/common, 2-wire type	Screw (M3)	FA-TH16X24D31		
			48VDC	Screw (M3.5)			FA-TH16X24D31L				
			100VDC	Screw (M3.5)			FA-TH16X48D31L				
			100VAC	Screw (M3.5)			FA-TH16X100D31L				
			200VAC	Screw (M3)			FA-TH16X100A31				
				Screw (M3.5)			FA-TH16X100A31L				
			200VAC	16 points/common, 2-wire type	Screw (M3)	FA-TH16X200A31					
				Screw (M3.5)	FA-TH16X200A31L						
			Digital signal converter for output signals (sink)	With a dedicated cable FA3-TH1□16Y-01C Without a dedicated cable FA3-TH1□16Y	Installation base unit (module selectable type)	4 points, independent (sink)		Spring clamp	FA1-TH4Y2SC20S1E		
									8 points, independent (sink)	FA1-TH8Y2SC20S1E	
									16 points, independent (sink)	FA1-TH16Y2SC20S1E	
						Module pre-mounted type	N/O contact relay	16 points, independent		Screw (M3)	FA-TH16YRA20S
										Screw (M3.5)	FA-TH16YRA20
										16 points/common, 1-wire type	Screw (M3)
16 points/common, 2-wire type	Screw (M3)	FA-TH16YRA11									
	Screw (M3)	FA-TH16YRA21S									
N/C contact relay	Screw (M3.5)	FA-TH16YRA21									
	C/O contact relay	Screw (M3)						FA-TH16YRAB20SL			
Triac		16 points, independent						Screw (M3)	FA-TH16YRAC20S		
	16 points, independent	Screw (M3)						FA-TH16YRAC20S			
	16 points, independent	Screw (M3)						FA-TH16YRAC20S			
	16 points/common, 1-wire type	Screw (M3)					FA-TH16YRAC20S				
	16 points/common, 2-wire type	Screw (M3)					FA-TH16YRAC20S				
	16 points, independent (sink)	Screw (M3)					FA-TH16YRAC20S				
Transistor (sink)	16 points, independent (sink)	Screw (M3)					FA-TH16YRAC20S				
	16 points/common, 1-wire type (sink)	Screw (M3)				FA-TH16YRAC20S					
	16 points/common, 2-wire type (sink)	Screw (M3)				FA-TH16YRAC20S					
	16 points/common, 1-wire type (source)	Screw (M3)				FA-TH16YRAC20S					
	16 points, independent (sink/source shared type)	Screw (M3)				FA-TH16YRAC20S					
	16 points, independent (sink/source shared type)	Screw (M3)				FA-TH16YRAC20S					
	16 points, independent (sink/source shared type)	Screw (M3)				FA-TH16YRAC20S					
	16 points, independent (sink/source shared type)	Screw (M3)				FA-TH16YRAC20S					
	16 points, independent (sink/source shared type)	Screw (M3)				FA-TH16YRAC20S					
	16 points, independent (sink/source shared type)	Screw (M3)				FA-TH16YRAC20S					
Module built-in type	16 points, independent, 2A (sink/source shared type)	Screw (M3)				FA-TH16YRAC20S					
Digital signal converter for output signals (source)	With a dedicated cable FA3-TH1□16YE-01C Without a dedicated cable FA3-TH1□16YE	Installation base unit (module selectable type)				4 points, independent (sink)		Spring clamp	FA1-TH1E4Y2SC20S1E		
									8 points, independent (sink)	FA1-TH1E8Y2SC20S1E	
									16 points, independent (source)	FA1-TH1E16Y2SC20S1E	
						Module pre-mounted type	N/O contact relay	16 points, independent (source)	Screw (M3)	FA1-TH1E16Y2RA20S1E	
			16 points, independent (source)	Screw (M3)	FA1-TH1E16Y2RA20S						
			16 points, independent (source)	Screw (M3)	FA1-TH1E16Y2RA20S						
			16 points, independent (source)	Screw (M3)	FA1-TH1E16Y2RA20S						
			16 points, independent (source)	Screw (M3)	FA1-TH1E16Y2RA20S						
			Triac	16 points, independent (source)	Screw (M3)		FA1-TH1E16Y2RA20S				
				16 points, independent (source)	Screw (M3)		FA1-TH1E16Y2RA20S				
				16 points, independent (source)	Screw (M3)		FA1-TH1E16Y2RA20S				
				16 points, independent (source)	Screw (M3)		FA1-TH1E16Y2RA20S				
				16 points, independent (source)	Screw (M3)		FA1-TH1E16Y2RA20S				
			Transistor (source)	16 points, independent (sink/source shared type)	Screw (M3)	FA1-TH1E16Y2RA20S					
16 points, independent (sink/source shared type)	Screw (M3)	FA1-TH1E16Y2RA20S									
16 points, independent (sink/source shared type)	Screw (M3)	FA1-TH1E16Y2RA20S									
16 points, independent (sink/source shared type)	Screw (M3)	FA1-TH1E16Y2RA20S									
16 points/common, 1-wire type (source)	Screw (M3)	FA1-TH1E16Y2RA20S									
	Screw (M3)	FA1-TH1E16Y2RA20S									

Supported network

□ = M	CC-Link IE TSN, CC-Link IE Field, CC-Link IE Field Basic, SLMP (standard Ethernet), MODBUS/TCP
□ = T	CC-Link IE TSN, CC-Link IE Field, CC-Link IE Field Basic, SLMP (standard Ethernet)
□ = C	CC-Link

Module						
Specifications (Signal pass-through modules cannot be used.)					Model	
Functional module	Input		24VDC relay isolation (navy blue)		Quantity: 1 Quantity: 2 Quantity: 4	FA1-TM1X24RA-*
			24VDC photocoupler isolation (black)			FA1-TM1X24D-*
			48VDC photocoupler isolation (sky blue)			FA1-TM1X48D-*
			100VDC photocoupler isolation (purple)			FA1-TM1X100D-*
			100VAC photocoupler isolation (orange)			FA1-TM1X100A-*
			200VAC photocoupler isolation (red)			FA1-TM1X200A-*
			Dummy (for dustproof) (green)			Quantity: 4
Slim module	Input/output		N/O contact relay (beige)	Input: 24VDC	Quantity: 2	FA-NYP24WK*
	N/C contact relay (sky blue)		Output: 24VDC, 100 to 240VAC, 2A	Quantity: 4	FA-NYBP24WK*	
	C/O contact relay (white)		24VDC, 100 to 240VAC, 6A	Quantity: 4	FA-LYCA024VSK4	
	Triac (black)		30 to 240VAC, 1A	Quantity: 2	FA-SN24A01FS*	
	Transistor (red)		3 to 30VDC, 1A	Quantity: 4	FA-SN24D01HZS*	

The asterisk in the model name is replaced by a number indicating the quantity.
It is replaced by "2" when the quantity is two, or "4" when the quantity is four.



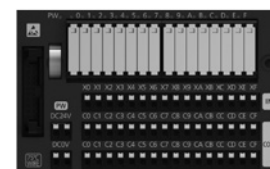
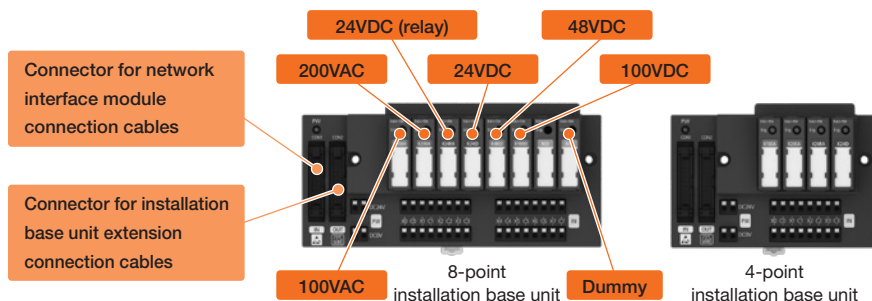
Related products

Digital signal converter (terminal module)

Digital signals will be converted between devices such as the network interface module and sensor.
For terminal blocks, the spring clamp terminal block type and screw terminal block type are available.

● Input Spring clamp terminal block Screw terminal block

Modules for different input voltage loads (24VDC, 48VDC, 100VDC, 100VAC, 200VAC) can be selected and mixed per point depending on the connected device.



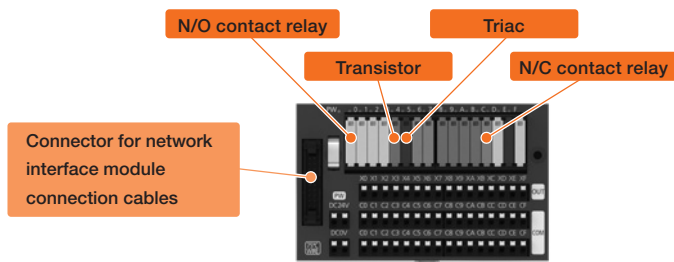
Unit with a 16-point relay module

New

Unit with a 8-point relay module
Unit with a 4-point relay module

● Output Spring clamp terminal block Screw terminal block

Modules for different control methods (relay, triac, transistor) can be selected and mixed per point depending on the connected device.



Unit with a 16-point relay module selectable type (installation base unit)
Unit with a 16-point relay module

New

Unit with a 8-point relay module selectable type (installation base unit)
Unit with a 4-point relay module selectable type (installation base unit)

When an analog signal converter is used

Check the compliance with the overseas standards of the products to be used in combination.

Programmable controller module IPC	Network interface module		Analog signal converter						
	Product	Model	Installation base unit	+	Mountable module (Pass-through modules cannot be used.)				
			Model		Specifications		Model		
CC-Link IE TSN master station · MELSEC iQ-R · MELSEC iQ-F CC-Link IE Field master station · MELIPC · MELSEC iQ-R · MELSEC iQ-F · MELSEC-Q · MELSEC-L · MELSEC-F CC-Link IE Field Basic master station · MELIPC · MELSEC iQ-R · MELSEC iQ-F · MELSEC-Q · MELSEC-L SLMP client · MELIPC · MELSEC iQ-R · MELSEC iQ-F · MELSEC-Q · MELSEC-L · MELSEC-F MODBUS/TCP · MELSEC iQ-R · MELSEC-Q · MELSEC-L	Analog signal converter for input signals	With a dedicated cable FA3-AT1□8X-01C Without a dedicated cable FA3-AT1□8X	4-channel spring clamp terminal block FA1-AT1B4X1TE 4-channel screw terminal block FA1-AT1B4X1TB 8-channel screw terminal block FA-ATB8XTB	+	Voltage input	0 to 5V		FA-ATSVM1XV05	
						1 to 5V		FA-ATSVM1XV15	
						-10 to 10V		FA-ATSVM1XV1010	
						Current input		4 to 20mA	FA-ATSVM1XA420
						Distributor (2-wire transmitter)		4 to 20mA	FA-ATSVM1XD
						RTD input	Pt100	-200 to +650°C	FA-ATSVM1XRPT
							Pt100	0 to +100°C	FA-ATSVM1XRPT0010
							Pt100	0 to +200°C	FA-ATSVM1XRPT0020
							JPt100	-200 to +600°C	FA-ATSVM1XRJPT
						Thermocouple input	Type B thermocouple	+600 to +1700°C	FA-ATSVM1XTB
							Type R thermocouple	0 to +1600°C	FA-ATSVM1XTR
							Type S thermocouple	0 to +1600°C	FA-ATSVM1XTS
							Type K thermocouple	-200 to +1200°C	FA-ATSVM1XTK
								0 to +400°C	FA-ATSVM1XTK0040
								0 to +600°C	FA-ATSVM1XTK0060
								0 to +800°C	FA-ATSVM1XTK0080
							Type E thermocouple	-200 to +900°C	FA-ATSVM1XTE
Type J thermocouple	-40 to +750°C	FA-ATSVM1XTJ							
Type T thermocouple	-200 to +350°C	FA-ATSVM1XTT							
Type N thermocouple	-200 to +1250°C	FA-ATSVM1XTN							
Dummy	Quantity: 5		FA-ATNDM5						
CC-Link master station · MELSEC iQ-R · MELSEC iQ-F · MELSEC-Q · MELSEC-L · MELSEC-F General-purpose controller (standard Ethernet)	Analog signal converter for output signals	With a dedicated cable FA3-AT1□8Y-01C Without a dedicated cable FA3-AT1□8Y	4-channel spring clamp terminal block FA1-AT1B4Y1TE 4-channel screw terminal block FA1-AT1B4Y1TB 8-channel screw terminal block FA-ATB8YTB	+	Voltage output	0 to 5V		FA-ATSVM1YV05	
						1 to 5V		FA-ATSVM1YV15	
						0 to 10V		FA-ATSVM1YV010	
						-10 to 10V		FA-ATSVM1YV1010	
					Current output	0 to 20mA		FA-ATSVM1YA020	
						4 to 20mA		FA-ATSVM1YA420	
					Dummy	Quantity: 5		FA-ATNDM5	

Supported network

□ = M	CC-Link IE TSN, CC-Link IE Field, CC-Link IE Field Basic, SLMP (standard Ethernet), MODBUS/TCP
□ = T	CC-Link IE TSN, CC-Link IE Field, CC-Link IE Field Basic, SLMP (standard Ethernet)
□ = C	CC-Link

Related products

Analog signal converter

Analog signals will be converted between devices such as the network interface module and temperature sensor. Isolation is implemented between channels.

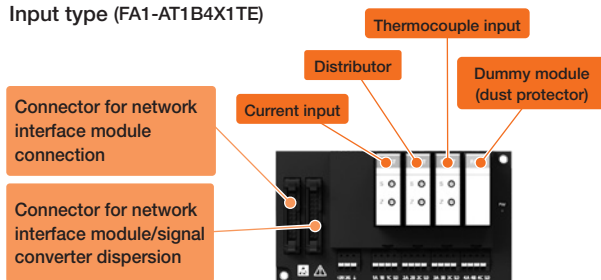
Spring clamp terminal block **New**

Screw terminal block

For input, modules for different analog inputs (voltage, current, distributor, thermocouple, RTD) can be selected and mixed per channel.

For output, modules for different analog outputs (voltage, current) can be selected and mixed per channel.

Input type (FA1-AT1B4X1TE)



Output type (FA1-AT1B4Y1TE)

