Sensor & Wire-saving Link System

S-LINK

FIBER SENSORS Related Information

Related Information General terms and conditions...... F-17

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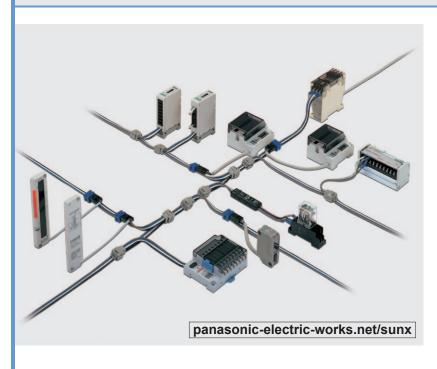
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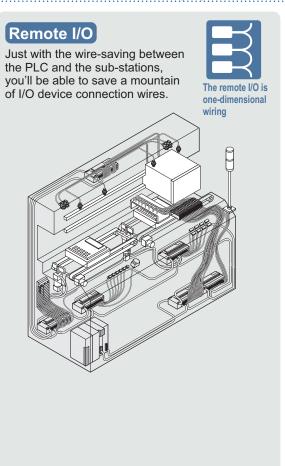


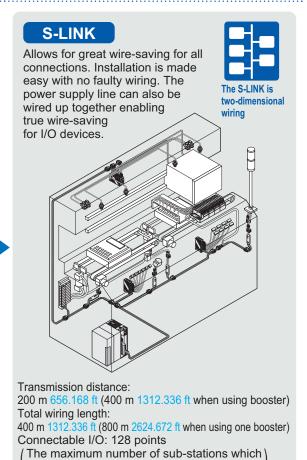
Conforming to EMC Directive (Excluding some models)

This product is introduced to only limited countries. Please contact our office for details.

S-LINK transmits 128 points on two signal lines, and "T"-branch multi-drop system enabling flexible cable layout

We've realized a wire-saving system that's easy to use





can be connected: 128 nodes

High noise immunity

Large voltage amplitude (24 V) and wide pulse width (35 µs) signal transmissions make for units less prone to impulse noise effects with no code errors.

This high level of noise proofing enables them to be used even in worksites with conventional, high-priced optical communication remote I/O units.

Specifies malfunctioning S-LINK I/O devices

In the event that verification cannot be obtained from an **S-LINK** I/O unit, such as if the main cable is cutoff, the address of the particular unverifiable **S-LINK** I/O unit is specified and displayed allowing equipment recovery time to be greatly reduced.

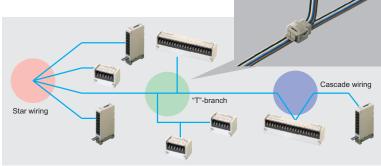


"T"-branch

Address display

Alleviates the burden laid on engineer for designing and wiring

Labor-saving hook-up connectors are used enabling multiple "T"-branch hookups. It goes without saying that cascade wiring (bus wiring) as well as multiple branch wiring (star wiring) is also possible.



Simple and reliable connections

We've provided all types of hook-up connectors. Connections from **S-LINK** I/O devices to the main cable and from sensors and other devices to **S-LINK** I/O devices are all realized with one-touch hook-up connectors. They can be connected anywhere guickly and maintenance is easy.

Branch cable to main cable connection and S-LINK I/O device to main cable connection

*The values in () represent conductor cross-section areas.

SL-J1A

SL-CP2 (0.3 mm²)
SL-CP3 (0.5 mm²)
SL-JK (For cable end)
SL-JK1 (For "T"-branch)

In addition, to enhance the reliability of the crimping, **S-LINK** exclusive pliers are made available so that anyone can do it with ease.



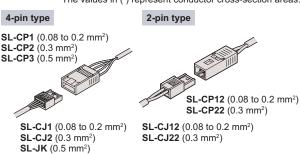
Connection from various connected units to S-LINK I/O devices

*The values in () represent conductor cross-section areas.

SL-CP1 (0.08 to 0.2 mm²)
SL-CP2 (0.3 mm²)
SL-CJ2 (0.3 mm²)
SL-CJ2 (0.3 mm²)
SL-CJ3 (0.5 mm²)

Connected device extensions

*The values in () represent conductor cross-section areas.



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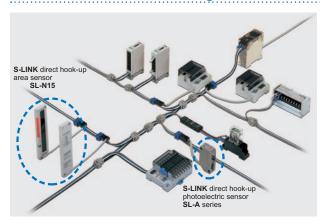
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Direct main cable connecting of sensors and actuators possible



All types of transmission line direct-connecting type sensors are made available. Even partner makers are putting on the market manifold electromagnetic valves and limit switches that can be directly connected with the S-LINK system making wire-saving and labor-saving a

Items offered by partner makers

Manifold electromagnetic valve manufactured by Koganei Corp

Manifold Manifold electromagnetic electromagnetic alve manufactured valve manufactured by SMC Pneumatics

by CKD Corp

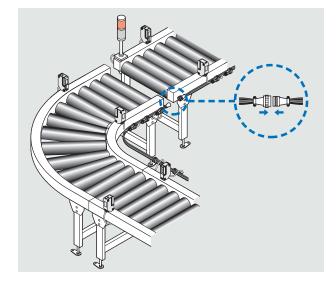
Component indicator lamp manufactured by Yazaki Industrial Chemical Co., Ltd.



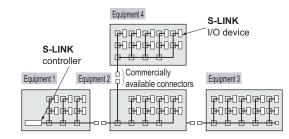
Mid-system main / branch cable installation and removal possible

For conveyors or other large scale equipment, transport can also be done after dividing the whole into units of several meters in length right at the factory. Then, reassembly and wiring can be effectuated onsite afterwards. Because the S-LINK can be easily divided even from mid-system main / branch cables with the help of commercially available connectors and terminals, the segmented equipment can be wired up prior to transport. Once onsite, assembly work is all but complete with just the connecting of the individual units to each other.

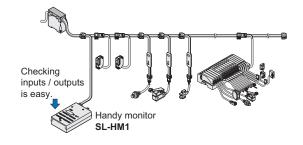
In addition, when assembling the equipment, the S-LINK can work even disconnected from the PLC enabling software (PLC programming) and hardware (machine assembly, I/O check) work to be done concurrently, which results in quick delivery time. With the handy monitor, I/O devices can be checked for each piece of equipment separately enabling subcontractors to conduct check work on delivery. This results in a total delivery deadline reduction and clearly defined subcontractor responsibilities. Also, checking can be performed even without programming so you'll know immediately if malfunctions are coming from the PLC or the S-LINK.



Dividing equipment into subunits possible



Individual equipment subunits can be checked separately

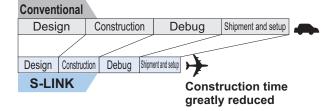


Total cost reductions and great savings in setup time

By introducing the **S-LINK**, you can reduce the total cost of system construction to one-fifth. Total costs including for materials go down dramatically and, by decreasing the workload, construction time is lessened which means you can easily meet that tough deadline.

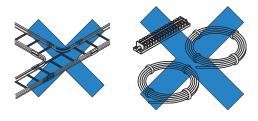
The S-LINK system:

- A hardware-only construction makes layout design simple
- With hook-up connectors, construction time is greatly reduced
- Layout modifications made easy
- Equipment divided into separate segments make for easy debugging
- Segmented equipment can be easily interlinked with commercially available connectors



Auxiliary materials reduced

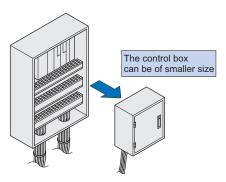
Great reductions in auxiliary materials such as cable racks, cable ducts, intermediate terminal blocks, and cables. This system also contributes greatly to the reduction waste caused by cutting cable ends.



Space-saving

Because of great reductions in the amount of intermediate terminal blocks and cables needed, you can save space and minimize the size of your control board and machines.

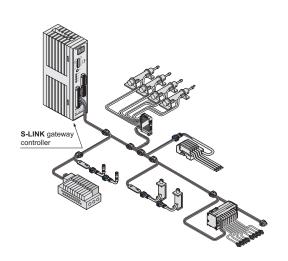
This will finally let you put all that wasted space to good use.



Upper-level network connection possible

Because it can be connected to any main open network, long-distance and multi-point transmission networks can be constructed enabling a greatly enhanced network upgrade. Also, by wiring up scattered bit-oriented I/O devices that include mostly connected sensors and switches, an efficient wire-saving layout can be realized. If exporting equipment that was setup with any open network, it can be made to correspond to different networks just by installing an **S-LINK** gateway controller with the entire **S-LINK** system left as it is.





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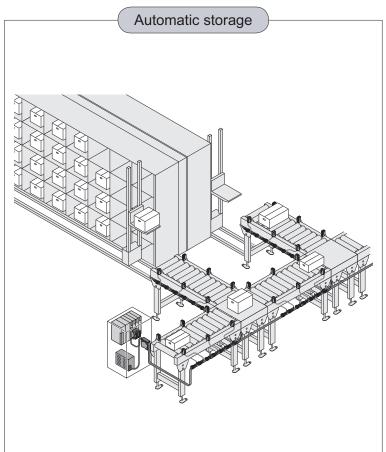
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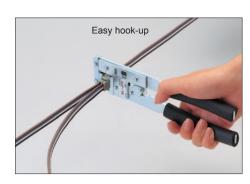
APPLICATIONS

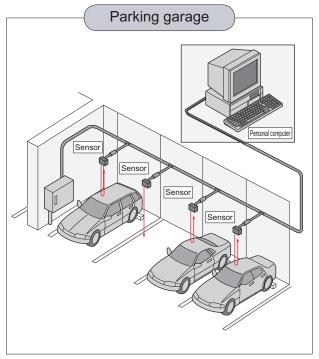
Distributed installation



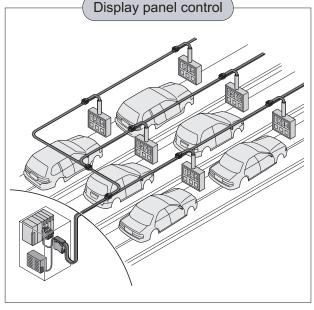
Because conveyors have multiple I/O device points, wire-saving and construction efficiency are the key to lowering overall costs. Other systems may be wire-saving but if they can't prove useful for long-distance distribution lines and be reliable, then they are useless. On this point, the **S-LINK** system offers a total wiring length of 400 m 1312 ft, 800 m 2625 ft when using booster, with reliable T-branch I/O device connections that can be mounted in any desired location.

Because T-branching renders layout designing simple, not only is it a wire-saving and construction efficient system, but you can even save time in the actual design stage. In addition, you can divide main and branch cables in mid-system with commercially available connectors and terminals so the time it takes to setup your conveyor decreases greatly.





The **S-LINK** system is very suitable to wire up car detection sensors in a large parking garage. It reduces wires and installation time.



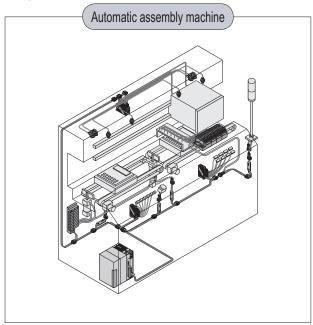
Display equipment can be mounted in automobile production lines to notify operators when malfunctions occur or just to keep a reliable count of units in each line.

Because each type of display equipment shows variegated data, they necessitate a great amount of wiring. This wiring must be conducted in very large factories requiring a substantial amount of cables and wires. A wire-saving system in this situation would be most effective.

Using the **S-LINK** system means that even display equipment can be wired up with just one flat cable, and clearing up all the bulky wiring inside the display panels themselves and realizing great material cost savings as well as a reduced workload.

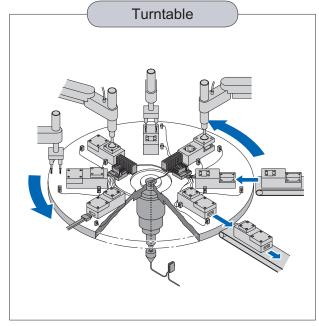
APPLICATIONS

Integrated installation



The wire-saving system is being greatly emphasized even for assembly lines crowded with multiple I/O devices. Also, to enhance productivity, using a wire-saving system is the key to reliability and avoiding the occurrence of troubles. In the S-LINK loop wiring, the system maintains signal transmission even when the loop may break at any one place. Also, the controller displays disconnected unit address. Further, when excess current flows or short-circuit occurs in the signal transmission lines, the signal transmission is stopped to protect the system.

S-LIŃK is a wire-saving system optimal for the automatic assembly machinery.



The wiring of I/O devices mounted on a rotating board (turntable) used to be quite a difficult task. Because a slip ring with the same number of terminals as wires had to be used. Therefore, there have been difficulties such as employing a large slip ring or reduction of I/O point count.

S-LINK enables the connection of up to 128 I/O points on a 4-pole slip ring. A compact slip ring can be used without worrying about I/O points.

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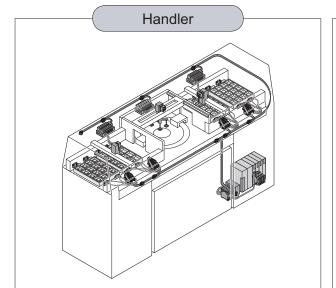
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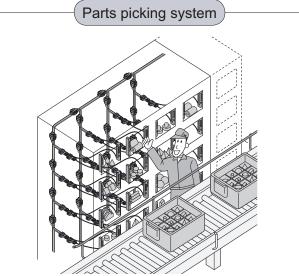
For Large Scale Systems For Medium

S-LINK



"The handler" as the IC test equipment uses multiple sensors. Cost reduction or downsizing depends on how to reduce these wires and to save space.

S-LINK realizes wire-saving and space-saving; hence these problems are solved all at once.



Many small picking sensors are employed in the parts picking system in order to verify the correct selection of components. The number of input points is required as much as the number of shelves, the number of output points is also required to be the same in adopting the operational indicators.

S-LINK system greatly contributes to wire-saving both in I/O points and in space. Also, extra shelves can be added easily.

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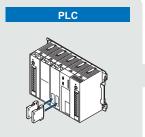
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SYSTEM LAYOUT

Upper-level control devices



S-LINK control components



FPΣ

Multi-core cable PLC I/O units (for screw-on terminal type PLC) SL-S, SL-SP, SL-P, SL-PP

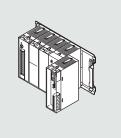


S-LINK controller SL-CU1A









S-LINK unit FPG-SL



FP0 S-LINK Control unit FP0-SL1



FP2SH S-LINK unit FP2-SL2

S-LINK controller for direct connection to PLC bus / S-LINK control boards

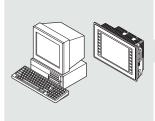


For Yokogawa Electric Corp. PLC FA-M3 series For Mitsubishi Electric Corp. PLC MELSEC-Q series SL-MEL-Q SL-FAM3



Items offered by partner makers Controllers manufactured by JTEKT Corp. THU-5291





For ISA bus SL-PCAT



For PC/104 bus **SL-PC104**











SYSTEM LAYOUT

S-LINK I/O devices

Analog I/O arrayed terminal unit SL-TBAD4, SL-TBDA1



4 inputs 1 output

16 channel MIL connector I/O unit SL-T16C1(-PN), SL-TP16C1(-PN)



Snap-connector sensor block **SL-BMJ**, **SL-BXJ**



1 • 2 channel I/O unit SL-CH□(-PN)



8-branch connector tap



Plug-in unit sensor block **SL-BM**, **SL-BX**



8 channel snap-connector I/O unit SL-T8J(-PN), SL-TP8J(-PN)



I/O arrayed terminal unit SL-TB□(-PN), SL-TBP□(-PN) SL-TBP□-TY



4, 8 or 16 inputs 4, 8 or 16 outputs





For e-con 8 channel snap-connector I/O unit SL-T8E(-PN), SL-TP8E(-PN)



Relay output terminal unit SL-TPR4, SL-TPR8



S-LINK direct hook-up picking sensor SL-N15



Items offered by partner makers

Manifold electromagnetic valve manufactured by Koganei Corp.



Manifold electromagnetic valve manufactured by SMC Pneumatics



Manifold electromagnetic valve manufactured by CKD Corp.



Component indicator lamp manufactured by Yazaki Industrial Chemical Co., Ltd.



Plug-in units (for SL-BM, SL-BX)



Input terminal unit



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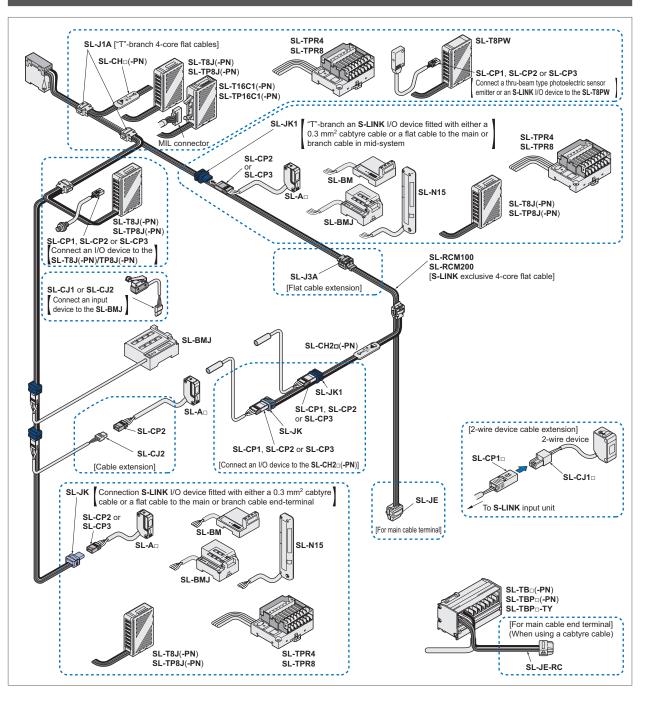
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SYSTEM LAYOUT

Connectors and cables



Other S-LINK devices

I/O modules SL-M□, SL-M□F 8 or 16 inputs 8 or 16 outputs 4 inputs and 4 outputs





Handy monitor SL-HM1



S-LINK control units

Designation	Appearance (Note)	Model No.	Description
S-LINK controller	(€	SL-CU1A	It supplies the synchronization signal to the complete system to send and receive I/O data from external devices correctly. It also monitors the signal transmission line, and specifies the addresses of the disconnected devices if the line breaks, etc.
FPΣ S-LINK unit		FPG-SL (AFPG780)	It controls the S-LINK system by directly connecting to the FPΣ series.
FP0 S-LINK Control unit		FP0-SL1 (AFP02700)	It controls the S-LINK system by directly connecting to the FP0 series.
FP2SH S-LINK unit		FP2-SL2 (AFP2780)	It controls the S-LINK system by directly connecting to the FP2SH series.
Mitsubishi Electric PLC bus S-LINK controller	(6	SL-MEL-Q	It can be directly connected to the bus line of the MELSEC-Q series PLC manufactured by Mitsubishi Electric Corp. (Has S-LINK controller as well as PLC input and output connector functions so you don't have to prepare for these items. Also, it doesn't need a PLC input or output module.
Yokogawa Electric PLC bus S-LINK controller	(E	SL-FAM3	It can be directly connected to the bus line of the FA-M3 series PLC manufactured by Yokogawa Electric Corp. (Has S-LINK controller as well as PLC input and output connector functions so you don't have to prepare for these items. Also, it doesn't need a PLC input or output module.
PC/AT S-LINK control board	(6	SL-PCAT	It can be fitted into the expansion slot (ISA bus) of PC/AT series or compatible to control the S-LINK system. (Has S-LINK controller as well as PLC input and output connector functions so you don't have to prepare for these items.
PC/104 bus S-LINK control board	(6	SL-PC104	Controls the S-LINK system by directly coupling (stack) the PC/104 bus line to a PC/104 bus compatible PC board or panel computer. (Has S-LINK controller as well as PLC input and output connector functions so you don't have to prepare for these items.

Note: Components with " (mark conform to the CE marking EMC Directive. The following condition must be met to conform to EN 61000-6-2.

① Cable length between the main power supply and the **S-LINK** control unit should be less than 10 m 32.808 ft.
② When the power is supplied from **S-LINK** control unit to **S-LINK** I/O devices at a cable distance of more than 10 m 32.808 ft add a surge absorber between 24 V and 0 V at a cable distance of less than 10 m 32.808 ft, or use a local power supply at a cable distance of less than 10 m 32.808 ft from each **S-LINK** I/O device.

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ORDER GUIDE

Products for open network

Designation	Appearance (Note)	Model No.	Description
S-LINK gateway controller for CC-Link	CE	SL-GU1-C	S-LINK gateway controller for connection to open network CC-Link, promoted by Mitsubishi Electric Corp.
S-LINK gateway controller for DeviceNet	C E	SL-GU1-D	S-LINK gateway controller for connection to open network DeviceNet.

Note: Components with " < €" mark conform to the CE marking EMC Directive.

The following condition must be met to conform to EN 61000-6-2.

Conditions

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PLC related units

Dooignoti	on	Appearance (Note 1)		Model No.		Description	
Designation	OH			For input	For output		Description
Multi-core				SL-S	SL-P	This is the Multi-core cable PLC I/O unit for connecting the screw on terminal type PLC with the S-LINK system. Interfaces I/O data between the S-LINK controller and PLC. It includes the I/O data conversion circuit for serial to parallel or	
I/O unit	PNP type	PLC Multi-core cable	(€	SL-SP	SL-PP		
Multi-core ca	Multi-core cable PLC I/O unit			SL-L2000F		Length: 2 m 6.562 ft	The multi-core cable attached with an MIL connector on one end links the multi-core cable PLC I/O unit to a screw-on terminal type PLC I/O module.

Notes: 1) Components with " ("mark conform to the CE marking EMC Directive.

However, note that for the multi-core cable PLC I/O units to conform to CE marking EMC Directive, it is necessary to use cascade cable SL-F70, SL-F150 or SL-F250, control cable SL-C2000F and multi-core cable SL-L2000F.

- 2) In case the output circuit of the PLC output module contains capacitive components for improving the noise characteristics, since it is possible that the multi-core cable PLC output units SL-P, SL-PP may not be able to receive the signal correctly, please use output modules which have an output circuit capacitance of 0.01 μF or less.
- 3) Since the multi-core cable PLC output units SL-P, SL-PP are high input impedance, time division input type devices, please use PLC output modules whose output circuit can operate at a load current of even 0.1 mA.

PLC related units

Designation	Annogranco	(Note 1)	Mode	l No.	Description			
Designation	Appearance	(Note 1)	For input	For output	Manufacturer	PLC	PLC input module (Note 4)	PLC output module (Note 4)
			SL-S1	SL-P1	Panasonic Electric Works SUNX Co.,Ltd.	FPΣ (Excluding the FPG-C32T) FP2	FPG-XY64D2T (X side) FP2-X32D2	FPG-XY64D2T (Y side) FP2-Y32T
					Toshiba Machine Co., Ltd.	TC200	TC64DI NS-X64-1	TC64DON NS-Y64-T1
						NS series F55		NS-XY64-1 (Y side) NV1Y32T05P1
			SL-S2	SL-P2	Fuji Electric FA Components & Systems Co., Ltd.	F70	NC1X3204 NC1X3204-3 NC1X3206 NC1X6404 NC1X6406 NC1W6406T (X side)	NC1Y32T05P1 NC1Y64T05P1-1 NC1W6406T (Y side)
		Fujitsu Component connector specs. MIL connector				F80H, F120H F120S F140S F15XS	FTU125A FTU126A FTU127C FTU612A (X side)	FTU222A FTU227C FTU612A (Y side)
		specs.			Fuji Electric FA Components & Systems Co., Ltd.	SX series SPH	NP1X3206-W NP1X6406-W	NP1Y32T09P1 NP1Y64T09P1
						AnS	A1SX41 A1SX42 A1SH42 (X side)	A1SY41 A1SY42 A1SH42 (Y side)
		PLC input connectors PLC output connectors (same shape) (Note 2) The listed PLC I/O modules (NPN I/O type) allow the mating PLC I/O connector to be plugged on them for signal transmission between the PLC and the S-LINK controller. The PLC I/O connector converts I/O data from serial to parallel, and vice versa. I/O points: 32 points per connector	SL-S3	SL-P3	Mitsubishi Electric Corp.	AnN, AnA AnU, QnA QnAs	AX42 AH42 (X side)	AY42 AH42 (Y side)
PLC input	PLC input connectors PLC output connectors (Note 3) Max. four PLC I/O connectors can be cascaded with one S-LINK controller.					Q A2CJ	QX41, QX42 AJ35TC1-32D	QY41P, QY42P AJ35TC1-32T
connector					Sharp	JW20, JW20H	JW-234N	JW-232S
PLC output			SL-S4	SL-P4	Manufacturing	JW30H	JW-264N JW-34NC	JW-262S JW-32SC
connector			SL-S5		Systems Corp. Omron Corp.	JW50H CJ1	JW-64NC CJ1W-ID231 CJ1W-ID261	JW-62SC CJ1W-OD231 CJ1W-OD261
						CS1		CJ1W-MD261 (Y side) CS1W-OD231 CS1W-OD261
				SL-P5		CVM1, CV C500 C1000H C2000H	C500-ID219	C500-OD213
						C200H series	C200H-ID216 C200H-ID217	C200H-OD218 C200H-OD219
	Cascade cable					CQM1	CQM1-ID213	CQM1-OD213
					Hitachi Ltd.	EH-150	EH-XD32	EH-YT32
					Yokogawa	FA500	XD64-6N WD64-6N (X side)	YD64-1A WD64-6N (Y side)
					Electric Corp.	FA-M3	F3XD32-3N F3XD64-3N	F3YD32-1A F3YD64-1A
					Toshiba Corp.	Т3	DI-335 DI-335H	DO-335
					Yasukawa Electric Corp.	GL20, GL40S GL60S, GL60H GL70H		B2604
			SL-S6	SL-P6	Hitachi Ltd.	H series	XDC24D2H	YTR24DH
			SL-S7		Yasukawa Electric Corp.	GL20, GL40S GL60S, GL60H GL70H	B2605	
End connector			SL-E		It must be conn	ected at the end	of the last PLC I	/O connector.
			SL-F7		Length: 70 mn			
Cascade cable			SL-F1		Length: 150 m		It links PLC inpo connectors.	ut / PLC output
cable			SL-F250 SL-F1000		Length: 250 mm 9.843 in Length: 1,000 mm 39.370 in		COINECTOIS.	
			SL-F		Length: 1,000			
Control			SL-C		Length: 2 m 6		It links the S-LII	
cable			SL-C		Length: 5 m 10		and the first PL	C I/O
		<i>∞</i> .	SL-C2		Length: 2 m 6.562 ft connector.			

Notes: 1) Components with " < €" mark conform to the CE marking EMC Directive. However, note that for the PLC I/O connectors to conform to CE marking EMC Directive, it is necessary to use cascade cable SL-F70, SL-F150 or SL-F250 and control cable SL-C2000F.

- 2) The PLC I/O connectors use Fujitsu connectors. However, SL-S1, SL-S6, SL-P1 and SL-P6 connectors use MIL connectors.
- 3) PLC I/O connectors are connectable to S-LINK controller SL-CU1A only.
- 4) X side and Y side indicate the input and the output connectors, respectively, of the compound input / output module.

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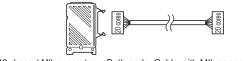
S-LINK

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S-LINK I/O devices

D	esignation	Appearance (Note 1)	Model No.	Description							
1 cl	hannel		SL-CH1	NPN type	It can be used as either an input unit or an output unit by switch selection. Signals, such as from the sensor and limit switch, can be transmitted						
I/O	unit	CE	SL-CH1-PN	PNP type	by the signal transmission line. These signals from the signal transmission line can turn ON / OFF the transistor output.						
2 cl	hannel		SL-CH21	NPN type	1 input and 1 output are equipped. 1 input device and 1 output						
I/O	mixed unit	CE	SL-CH21-PN	PNP type	device are connectable.						
2 cl	hannel		SL-CH20	NPN type	2 input devices are connectable.						
inp	ut unit	CE	SL-CH20-PN	PNP type	2 input devices are connectable.						
2 cl	hannel		SL-CH22	NPN type	2 output devices are connectable.						
out	put unit	(E	SL-CH22-PN	PNP type	2 output devices are connectable.						
	8 channel snap-		SL-T8J	8 NPN inputs							
	connector input unit		SL-T8J-PN 8 PNP inputs co	8 input or 8 output devices are connectable with snap male connectors.							
mit	8 channel snap-									SL-TP8J	8 NPN outputs
r 1/0	connector output unit	(€	SL-TP8J-PN	8 PNP outputs	uarismission line.						
Connector I/O unit	16 channel MIL		SL-T16C1	16 NPN inputs							
S	connector input unit		SL-T16C1-PN	16 PNP inputs	Since connection can be made with an MIL connector, 16 input or 16 output devices can be connected to this slim I/O unit.						
	16 channel MIL			SL-TP16C1 16 NPN outputs w	The output unit is incorporated with an output signal hold function, which retains the output state just prior to an error on the signal						
	connector output unit	(Note 2) (€	SL-TP16C1-PN	16 PNP outputs	transmission line.						
unit	8 channel snap-		SL-T8E	8 NPN inputs	Up to 8 input or output devices can be easily connected via e-CON.						
r 1/0	connector input unit		SL-T8E-PN	8 PNP inputs	Also, when there is an abnormality in the signal communication line, the output status just before the abnormality can be preserved since						
nnector I/O unit	8 channel snap-		SL-TP8E	8 NPN outputs	the output unit is equipped with an output hold function. *For the connector, please separately purchase a commercial						
රි	connector output unit	CE	SL-TP8E-PN	8 PNP outputs	product which supports e-CON standards.						
Analog I/O arrayed terminal unit	Input terminal	C E	SL-TBAD4	4 inputs	This is an analog input terminal unit which can connect 4 devices having an analog output. Since power supply terminals have been provided for each input channel, neat wiring is possible.						
Analog I/O array	Output terminal	CE	SL-TBDA1	1 output	This is an analog output terminal unit which can connect one device requiring an analog input. It is incorporated with an output signal hold function, which retains the output state just prior to an error on the signal transmission line.						

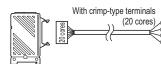
2) It is convenient to use a MIL connector cable made by Panasonic Electric Works Co., Ltd. when connecting to a device. Connect the 20-core connector side to a 16 channel unit when using it. Contact our office for details.



16 channel MIL connector input / output unit

Both ends: Cable with MIL connector (20 cores) Panasonic Electric Works Co., Ltd.:

AY15840 and others Cables for use with cascading PC relay terminals / PC terminals



16 channel MIL connector input / output unit

One end: Cable with MIL connector (20 cores) Panasonic Electric Works Co., Ltd.:

AY15853 and others Cables with individual line crimp-type terminals for use with relay terminals

¹⁶ channnel MIL connector input / output unit give support for the Panasonic Electric Works Co., Ltd. MIL connector relay terminal pin arrangement. Contact our office for details.

S-LINK I/O devices

D	esignation	Appearance (Note 1)	Model No.		Description		
			SL-TB4	4 NPN inputs			
			SL-TB4-PN	4 PNP inputs			
	Input		SL-TB8	8 NPN inputs	They are screw-on terminal units to which 4, 8 or 16 input devices		
	terminal		SL-TB8-PN	8 PNP inputs	are connectable. Since power supply terminals have been provide for every two input channel, neat wiring is possible.		
		-	SL-TB16	16 NPN inputs			
ni		7777	SL-TB16-PN	16 PNP inputs			
ninal u	Output		SL-TBP4	4 NPN outputs			
ed terr		THE STATE OF THE S	SL-TBP4-PN	4 PNP outputs			
I/O arrayed terminal unit		(E	SL-TBP8	8 NPN outputs	They are screw-on terminal units to which 4, 8 or 16 output device are connectable. The output unit is incorporated with an output		
2	terminal		SL-TBP8-PN	8 PNP outputs	signal hold function, which retains the output state just prior to a error on the signal transmission line.		
			SL-TBP16	16 NPN outputs			
			SL-TBP16-PN	16 PNP outputs			
			SL-TBP4-TY	4 NPN outputs	In the case that a malfunction occurs to the output device that is		
	Separate load power supply type		SL-TBP8-TY	8 NPN outputs	being connected, they enable forced turning OFF of the output device connected to the output terminal without halting the complete S-LINK system, by switching off the load power		
	ѕирріу туре		SL-TBP16-TY	16 NPN outputs	supply.		
Relay output terminal unit	4 relay output		SL-TPR4	4 outputs (Note 2)	They are terminal units to which 4 or 8 output devices can be connected by slim socket relays that can be easily replaced.		
Relay output	8 relay output		SL-TPR8	8 outputs (Note 2)	 They are incorporated with an output signal hold function which retains the output state just prior to an error on the signal transmission line. 		

Notes: 1) Components with " (6" mark conform to the CE marking EMC Directive.

2) Relay output is "Contact a" only. Further, when replacing the relay, use PA relay (APA3312) manufactured by Panasonic Electric Works Co., Ltd.

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S-LINK

S-LINK I/O devices

D	Designation		Appearance (Note)	Model No.		Description		
	Sensor main block			SL-BMJ	inductive proximity sensors, limit sw connectors. Changes signals from i the signal transmission line. One SI up to 16 input points.	s of input devices, such as, photoelectric sensors, vitches, and push buttons with the snap female nput devices into serial signals and transmits them to L-BMJ can be extended by one SL-BXJ or two SL-BXs, gnosis output of all the connected devices.		
Sensor block	Snap	Extension block		SL-BXJ	It can follow either main block, and	allows connection of 8 input devices.		
Sensc	Sensor main block SL-BM		into serial signals and transmits the One SL-BM can be extended by the input points.	s of plug-in units and changes signals from plug-in units m to the signal transmission line. ree SL-BXs or one SL-BX plus one SL-BXJ, up to 16				
	For plug-in unit		C€		case, the first channel gets occupied.			
	For	Extension block	(E	SL-BX It can follow either main block, and allows connection				
Plug-in unit	sep	plifier- arated toelectric sor	(E	SU-7J	Its thickness is merely 10 mm 0.394 kinds of sensor heads are suitable (For details, refer to the SU-7/SH se			
-Blug-	Inpi	ut ninal unit	(6	SL-TJ1	It allows connection of 1 No. of various kinds of input devices, such as, a photoelectric sensor, an inductive proximity sensor or a limit switch.			
			Retroreflective type with polarizing filters	SL-A11	Thru-beam type 10 m 32.808 ft			
	.INK ok-up	direct		SL-A13	Thru-beam type 30 m 98.425 ft	These can be hooked up to the S-LINK cable, at any		
	otoele nsor	ectric		SL-A19	Retroreflective type with polarizing filters 0.1 to 5 m 0.328 to 16.404 ft	place, without any interface.		
			Thru-beam type Diffuse reflective type	SL-A12	Diffuse reflective type 700 mm 27.559 in			
hoo	S-LINK direct hook-up picking sensor			SL-N15	Sensing range: 0.2 to 3 m 0.656 to 9.843 ft (0.05 to 1 m 0.164 to 3.281 ft when the switch is set to SHORT) Beam pitch: 25 mm 0.984 in Sensing height: 100 mm 3.937 in Sensing object: ø35 mm ø1.378 in or	It is a parts-taking verification sensor with five sensing beams and can be hooked up to the S-LINK cable without any interface. Both the emitter and the receiver are incorporated with bright orange LED job indicators that are easily visible to the operator.		

Note: Components with " \ref{G} " mark conform to the CE marking EMC Directive.

Connectors

Designation	Appearance	Model No.	Description				
Hook-up connector	(Note)	SL-J1A 10 pcs. per set	It creates a "T"-branch connection b For 0.5 mm² flat cable to 0.5 mm² fl Applicable hook-up pliers: SL-JPS ,				
Cable extension hook-up connector	(Note)	SL-J3A 10 pcs. per set	It can extend the S-LINK exclusive For 0.5 mm² flat cable to 0.5 mm² flat Applicable hook-up pliers: SL-JPS ,	at cable connection (Black)			
End hook-up connector	(Note)	SL-JE 5 pcs. per set	It must be connected at the end of For 0.5 mm² flat cable (Gray) Applicable hook-up pliers: SL-JPS ,				
Cable attached end connector		SL-JE-RC 1 pc.	When cabtyre cable is used as the main cable, it must be connected at the end of the main cable.				
Cable end socket- branch hook-up connector	(Note)	SL-JK 10 pcs. per set	It enables one I/O device to be connected at the S-LINK exclusive 0.5 mm² flat cable (4-core) end with the snap male connector (SL-CP _□). (Light blue) Applicable hook-up pliers: SL-JPS , SL-JPD				
"T"-branch hook-up connector		SL-JK1 10 pcs. per set	It enables one I/O device to be branched off in the middle of the S-LINK exclusive 0.5 mm ² flat cable (4-core) with the snap male connector (SL-CP _□). (Blue) Applicable hook-up pliers: SL-JPS , SL-JPD				
4-pin type snap	(Note)	SL-CJ1 (White) 10 pcs. per set	For 0.08 to 0.2 mm ² (Conductor cross-section area) Wire dia.: ø0.7 to ø1.2 mm ø0.028 to ø0.047 in	This snap female connector is used for plugging into the socket of SL-BMJ or SL-BXJ to connect an input			
female connector	(Note)	SL-CJ2 (Black) 10 pcs. per set	For 0.3 mm² (Conductor cross-section area) Wire dia.: ø1.1 to ø1.6 mm ø0.043 to ø 0.063 in	device, or into the snap male connector SL-CP1 or SL-CP2. Applicable hook-up pliers: SL-JPC			
	(Note)	SL-CP1 (White) 10 pcs. per set	For 0.08 to 0.2 mm ² (Conductor cross-section area) Wire dia.: Ø0.7 to Ø1.2 mm Ø0.028 to Ø0.047 in	This snap male connector is used for connecting			
4-pin type snap male connector	(Note)	SL-CP2 (Black) 10 pcs. per set	For 0.3 mm ² (Conductor cross-section area) Wire dia.: ø1.1 to ø1.6 mm ø0.043 to ø 0.063 in	S-LINK I/O devices to SL-T8J(-PN) and SL-TP3J(-PN) 8-channel snap-connector I/O units as well as to SL-JK and SL-JK1 hook-up connectors. Applicable hook-up pliers: SL-JPC (for the SL-CP1 and SL-CP2)			
	(Note)	SL-CP3 (Greenish blue) 10 pcs. per set	For 0.5 mm ² (Conductor cross-section area) Wire dia.: ø1.7 to ø2.5 mm ø0.067 to ø0.098 in	SL-JPE (for the SL-CP3)			

Note: For UL compatibility, please contact our office.

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Basic units

D	esig	nation	Appearance	Model No.		Description										
	Input	Input		SL-M8	8 inputs											
		module		SL-M16	16 inputs											
	Vertical type	I/O mixed module	200	SL-M4P4	4 inputs and 4 outputs											
		Output	THE PROPERTY OF THE PARTY OF TH	THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NA	THE PROPERTY OF	Transport of the Control of the Cont	The state of the s	The state of the s	The state of the s	The state of the s	Transferred to	THE PROPERTY OF	THE PROPERTY OF THE PARTY OF TH	SL-MP8	8 outputs	
I/O module		module		SL-MP16		These are IC type modules which enable external connection of										
m 0/I		Input		SL-M8F	8 inputs	address setting switches and operation indicators. They increase the design flexibility.										
		module		SL-M16F	16 inputs											
	Horizontal type	I/O mixed module	The state of the s	SL-M4P4F	4 inputs and 4 outputs											
		Output	"THING	SL-MP8F	8 outputs											
	module			SL-MP16F	16 outputs											

Optional units

Designation	Appearance Model No.		Description	
Booster	SL-BS1A		It can extend the signal transmission distance by 200 m 656.168 ft. A maximum of seven boosters can be connected for one S-LINK control unit. However, one booster can never be followed by another booster in series.	
Handy monitor		SL-HM1	It can be connected at any place on the signal transmission line and the I/O states can be checked in batches of 16. The handy monitor is also incorporated with the S-LINK control functions, so that, for example, it can perform an I/O check on conveyor system segments, still under assembly, even without the S-LINK controller.	

Note: Components with " < €" mark conform to the CE marking EMC Directive.

Others

Designation	Appearance	Model No.	Description					
8-branch connector tap		SL-T8PW		s easily to up to 8 thru-bear es with snap male connect	n type photoelectric sensor emitters or S-LINK ors.			
2-pin type snap female	(Note)	SL-CJ12 (White) 10 pcs. per set	(Conduct	to 0.2 mm ² or cross-section area) : ø0.7 to ø1.2 mm ø0.028 to ø0.047 in	It can be used for cable extension of 2-wire I/O devices by combining with a 2-pin type snap male			
connector	(Note)	SL-CJ22 (Black) 10 pcs. per set		nm² or cross-section area) : ø1.1 to ø1.6 mm ø0.043 to ø 0.063 in	connector SL-CP□2. Applicable hook-up pliers: SL-JPC			
2-pin type	(Note)	SL-CP12 (White) 10 pcs. per set	(Conduct	to 0.2 mm ² or cross-section area) : ø0.7 to ø1.2 mm ø0.028 to ø0.047 in	It can be used for cable extension of 2-wire I/O devices by combining with a 2-pin type snap female			
snap male connector	(Note)	SL-CP22 (Black) 10 pcs. per set		nm² or cross-section area) : ø1.1 to ø1.6 mm ø0.043 to ø 0.063 in	connector SL-CJ□2. Applicable hook-up pliers: SL-JPC			
Exclusive flat cable (4-core)	16 2	SL-RCM100 SL-RCM100-PK SL-RCM100-GN SL-RCM100-GY	Length: 100 m 328.084 ft	D line: White ① D line: White with pink stripe ② D line: White with green stripe ③ D line: White with gray stripe ④	S-LINK / S-LINK V exclusive flat cable (4-core) Conductor cross-section area: 0.5 mm² Outer diameter: ø2.5 mm ø0.098 in × 4			
	(Note)	SL-RCM200	-	O m 656.168 ft, D line: White (5)	S-LINK / S-LINK V exclusive cabtyre cable (4-core)			
Exclusive cabtyre cable (4-core)		SL-CBM100 SL-CBM200	-	200 m 656.168 ft	Conductor cross-section area: 0.5 mm ² Outer diameter: ø7.4 mm ø0.291 in (Hook-up connector cannot be used)			
Exclusive pliers		SL-JPS	Hook-up	connector (SL-J□) can be	connected in one grip.			
SL-CP3 exclusive pliers		SL-JPE	4-pin typ	e snap male connector (SL	-CP3) can be connected in one grip.			
Male / female connector exclusive bliers		SL-JPC	Snap female connector (SL-CJ1/CJ2, SL-CJ11/CJ12) and snap male connector (SL-CP1/CP2, SL-CP11/CP12) can be connected in one grip.					
Address label		SL-MA1-SET 4 sheets. per set	By sticking the labels on the respective S-LINK devices, the set addresses can be confirmed at one glance. SL-MA1-SET is available in white, pink, green and gray colors, as a 4-sheet set, and is convenient when used by matching the color with that of the S-LINK exclusive flat cable (100 m 328.084 ft type).					
DIN rail mounting pracket for SL-CH□		MS-CH×10 10 pcs. per set	Mounting bracket enabling the SL-CH □(-PN) I/O units to be mounted onto a 35 mm 1.378 in width DIN rail. They can also be affixed with screws. (When affixing with screws, arrange two M4 pan-head screws separately.)					
I/O unit holder for SL-CH □		MS-SLH 5 pcs. per set			It is used to mount the SL-CH □(-PN) unit. (Please arrange two M4 pan-head screws separately.)			

Note: For UL compatibility, please contact our office.

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Accessories

• NPS-CV

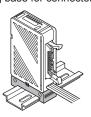
Protective cover for the SL-CU1A, SL-BS1A or SL-CU1-485



• RF-230 (Reflector for the SL-A19)



 MS-SL-2 (Mounting base for connector I/O units)

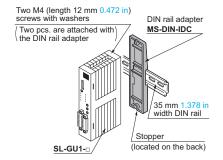


OPTIONS

Designation	Model No.	Description		
Sensor	MS-NX5-1	Foot angled mounting bracket (The thru-beam type sensor needs two brackets.)		
mounting bracket for	MS-NX5-2	Foot biangled mounting bracket (sensor protection bracket) (The thru-beam type sensor needs two brackets.)		
SL-A□	MS-NX5-3	Back angled mounting bracket (The thru-beam type sensor needs two brackets.)		
Sensor mounting	MS-NA1-1	Four bracket set Four M4 (length 15 mm 0.591 in) screws with washers, eight nuts, four hooks, four spacers		
bracket for SL-N15	MS-NA2-1	and eight M4 (length 18 mm 0.709 in) screws with washers are attached. (Spacers are not attached with MS-NA1-1.)		
Sensor protection	MS-NA3	It protects the sensor body. Two bracket set (Silver) Four M4 (length 15 mm 0.591 in) screws with washers, and four nuts are attached.		
bracket for SL-N15	MS-NA3-BK	It protects the sensor body. Two bracket set (Black) Four M4 (length 15 mm 0.591 in) screws with washers, and four nuts are attached.		
Reflector mounting bracket	MS-RF23	Reflector mounting bracket for RF-230		
Slit mask for SL-N15	OS-NA1-5 10 sheets. per set	The seal type slit mask restrains the amount of beam emitted or received. (Take care that the sensing range will be reduced when the slit mask is used.		
Connector I/O unit mounting bracket, 8-branch connector tap mounting bracket	MS-DIN-3	It is a DIN rail mounting bracket which can be fitted on the mounting base of SL-T8J, SL-TP8J, SL-T16C1, SL-TP16C1 and SL-T8PW.		
DIN rail adapter	MS-DIN-IDC	This adapter is used when mounting the SL-GU1-□ to the 35 mm 1.378 in width DIN rail.		

DIN rail adapter

• MS-DIN-IDC



Sensor mounting bracket for SL-An

• MS-NX5-1





Two M4 (length 25 mm 0.984 in) screws with washers and two M4 nuts are attached are

• MS-NX5-3



Two M4 (length 25 mm 0.984 in) screws with washers and two M4 nuts are attached are attached are attached are attached as a standard are attached as a stand

Sensor mounting bracket for SL-N15

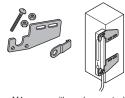
• MS-NA1-1





M4 screws with washers, nuts and hooks are attached.

• MS-NA2-1



M4 screws with washers, nuts, hooks and spacers are attached.

Sensor protection bracket for SL-N15

- MS-NA3
- MS-NA3-BK





M4 screws with washers and nuts

Reflector mounting bracket

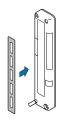
• MS-RF23



Two M4 (length 10 mm 0.394 in) screws with washers are attached.

Slit mask for SL-N15

• OS-NA1-5



Connector I/O unit mounting bracket, 8-branch connector tap mounting bracket

• MS-DIN-3



PRECAUTIONS FOR PROPER USE

Never use this product in a device for personal protection.



- · In case of using sensing devices for personnel protection, use products which meet laws and standards, such as OSHA, ANSI or IEC etc., for personnel protection applicable in each region or country.
- · Handle safety related or emergency stop signals without passing them through the S-LINK system due to failsafe considerations.
- Before touching this product, remove any electrostatic charge that may be present on your body. There is a danger of this product getting damaged due to the electrostatic charge.

The sensor & wire-saving link system S-LINK are not mutually interchangeable with the flexible wire-saving system S-LINK V and cannot be mixed or matched. Please exercise caution.

Nevertheless, any of the exclusive 4-core flat cable, connectors, hook-up pliers, or SL-T8PW 8-branch connector taps can be used.

Information about S-LINK partner makers

Refer directly to our partner makers for more details pertaining to the S-LINK compatible devices introduced here.

[Controllers suitable for S-LINK]

JTEKT Corp.



[S-LINK direct hook-up I/O devices]

Component indicator lamp Yazaki Industrial Chemical Co., Ltd.



Manifold electromagnetic valves Koganei Corp.



Manifold electromagnetic valves **SMC Pneumatics**



Manifold electromagnetic valves

CKD Corp.



Information about the "Design Manual" and "Construction Manual" for the S-LINK sensor & wire-saving link system

We have two manuals available with more detailed information pertaining to the S-LINK sensor & wire-saving link system. Please contact our office for details.



S-LINK Design Manual

Holds information necessary when designing the layout for the S-LINK system.

Refer to it for specifications and for illustration showing exterior dimensions.



S-LINK Construction Manual

Holds information necessary when introducing, constructing, and activating the S-LINK system. Refer to it for construction or startup cautionary items.

FIBER SENSORS

MICRO PHOTO-ELECTRIC SENSORS

LIGHT

PRESSURE FLOW SENSORS

INDUCTIVE PROXIMITY SENSORS

PARTICULAR USE SENSORS

SENSOR OPTIONS

MEASURE-MENT SENSORS

CONTROL

ENDOSCOPE

LASER MARKERS

PLC / TERMINALS

HUMAN MACHINE INTERFACES

VISUALIZATION COMPONENTS

FA COMPONENTS

MACHINE VISION SYSTEMS