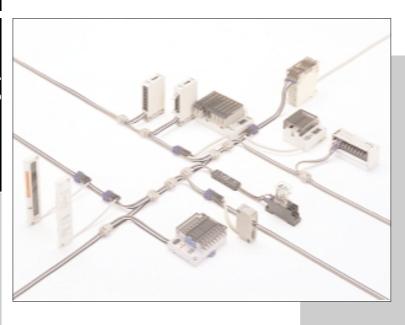
Sensor & Wire-saving Link System

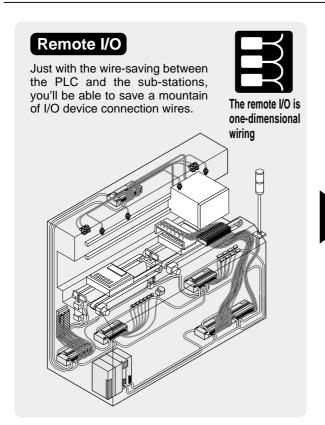


S-LINK transmits 128 points on two signal lines, and 'T'-branch multi-drop system enabling flexible cable layout

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



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

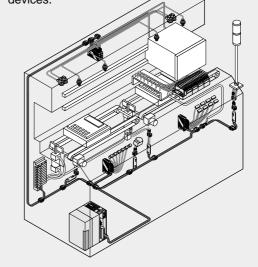




Allows for great wire-saving for all connections. Installation is made easy with no faulty wiring. The power supply line can also be wired up together enabling true wire-saving for I/O devices.



two-dimensional wiring



Various PLCs and PCs can be utilized

Via PLC I/O connectors, it can be linked to various PLCs from any maker. Also available is a control unit enabling a direct connection with any PLC bus line.

We've provided a PCI bus, ISA bus, C bus (PC/FC-98 Series), PC/104 bus, Compact PCI bus, and VME bus compatible computer control board.

Also corresponds to the open network, which is growing fast throughout the globe.

In addition, S-LINK compatible controllers made by partner makers are consistently being introduced onto the market.

Refer to 'SYSTEM LAYOUT' on p.1038~ or the S-LINK partner maker information page on p.1051 for more details.

Fully functional S-LINK I/O device lineup

About 60 types of S-LINK I/O devices are made available enabling various devices to be easily connected in any location with great wire-saving.

In addition, S-LINK compatible I/O devices made by partner makers are consistently being introduced onto the market.

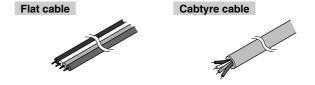
Refer to 'SYSTEM LAYOUT' on p.1038~ or the S-LINK partner maker information page on p.1051 for more details.

Programming unnecessary

The S-LINK can be setup with just hardware connections rendering specialized programming knowledge unnecessary. Anyone can use it with ease.

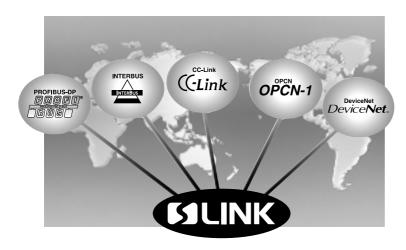
Commercially available cables can also be used

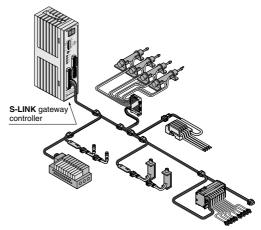
You can use, apart from specially made 4-core cables, commercially available cables such as flexible, heat-resistant, or fluorine resin sheath cables singly or in combination (conductor cross-section area 0.5 to 1.25 mm², the SL-TW series has a conductor cross-section area of 0.5 to 0.75 mm²).



Upper-level network connection possible

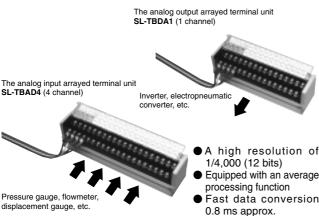
Because it can be connected to any main open network, long-distance and multi-point transmission networks can be constructed enabling a greatly enhanced network upgrade. Also, by wiring up scattered bit-oriented I/O devices that include mostly connected sensors and switches, an efficient wire-saving 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.





Wire-saving for analog devices also possible SL-TBAD4/TBDA1

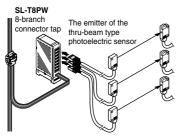
Also available is the A/D conversion function equipped SL-TBAD4 and the D/A conversion function equipped SL-TBDA1 enabling easy analog device wire-saving.



Labor-saving sensor connection to the power supply SL-T8PW

Provided are 8-branch connector tap SL-T8PW units that can link up to 8 thru-beam type photoelectric sensor emitters via snap male connectors.

Supplying power to the emitters can be done in an efficient, wire-saving manner without wasting I/O unit points or installing separate wiring. Connecting S-LINK I/O devices also possible.



High noise immunity

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

We've realized the industry's highest level of noise proofing enabling them to be used even in worksites with conventional, high-priced optical communication remote I/O units.

Highly efficient transmission

These units use a simple transmission format that covers most I/O data transmission signals enabling a delayed transmission time of approx. 11 ms for 128 points. (Of course, the fewer the point count means less delay time)

Wire-saving also possible in areas prone to water splashes SL-TW series

Available is the SL-TW series environment resistant I/O units that can be used even in areas prone to water exposure. An IP67 protective construction (IEC 60529) casing has been realized. Because they are equipped with waterproof connectors, they can be used safely even where water splashes may occur.



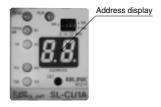
Conforms to CE marking

Because it conforms to CE marking (EMC directive), it can be used even in Europe.



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 I/O unit is specified and displayed allowing equipment recovery time to be greatly reduced.



Equipped with an output hold function

S-LINK output devices are equipped with an output hold function. When the signal transmission line is shutdown, the output status values immediately prior to the malfunction are stored greatly reducing the effect on the output devices. [Excluding SL-CH□(-PN)]

T-branch connector hookup to transmission lines

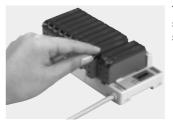
The transmission line connection is realized via T-branch multi-drop wiring with hook-up connectors. Adding devices is rendered easy and maintenance is easy.

Layout-free

Because S-LINK I/O devices can be connected to any arbitrary main cable / branch cable location, a universal layout is possible greatly decreasing the design workload.



Plug-in connection



The plug-in connection of sensors achieves wiresaving.

Plug-in units

Fiber sensor

Amplifier-separated photoelectric sensor Amplifier-separated inductive proximity

Input terminal unit

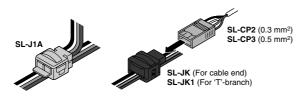


Simple and reliable connections

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 quickly 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.

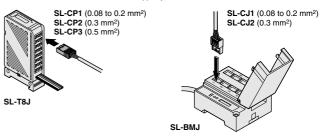


In addition, to enhance the reliability of the crimping, S-LINK exclusive pliers are made available so that anyone can do it with ease.



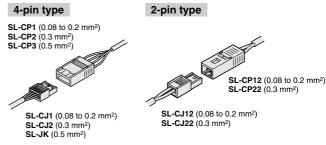
Connection from various connected units to S-LINK I/O devices

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

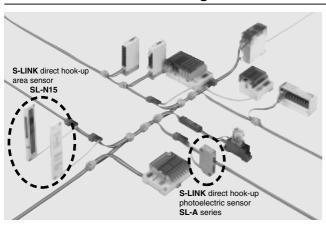


Connected device extensions

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



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 reality.

Items offered by partner makers

Limit switch Ultrasonic sensors Manifold electromagnetic Manifold electromagnetic manufactured by Matsushita manufactured by Mats valve manufactured by Electric Works, Ltd. Electric Works, Ltd. Koganei Corp. SMC Pneumatics









manufactured by Yazaki Industrial Chemical Co., Ltd

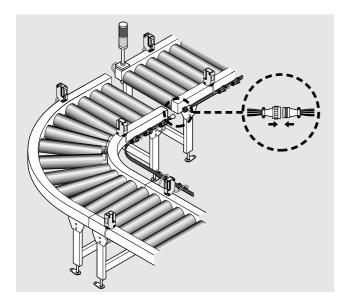




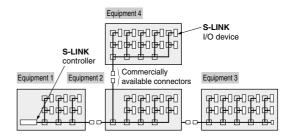
Mid-system main / branch cable installation and removal possible

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.

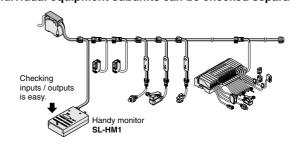
In addition, when assembling the equipment, the S-LINK can work even disconnected from the PLC enabling software (PLC programming) and hardware (machine assembly, I/O check) work to be done concurrently, which results in guick delivery time. With the handy monitor, I/O devices can be checked for each 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

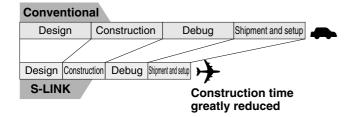


Total cost reductions and great savings in setup time

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.

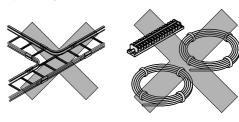
The S-LINK system:

- 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.

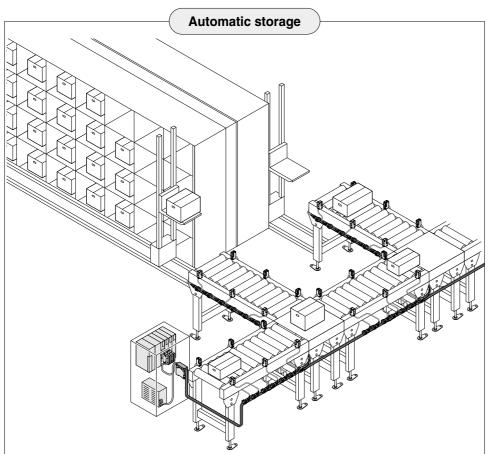
The control box

can be of smaller size

APPLICATIONS

S-LINK

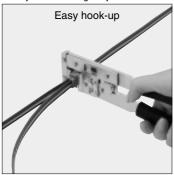
Distributed installation

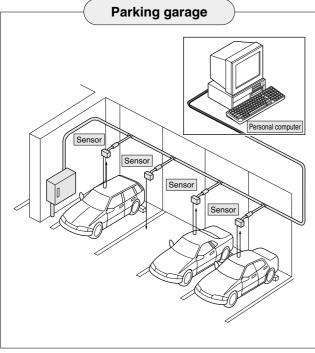


Because conveyors have multiple I/O device points, wire-saving and construction efficiency are the key to lowering overall costs. Other systems may be wire-saving but if they can't prove useful for longdistance distribution lines or be reliable, then they are useless. On this point, the S-LINK system offers a total wiring length of 400 m 1312.336 ft, 800 m 2624.672 ft when using booster, with reliable T-branch I/O device connections that can be mounted in any desired location.

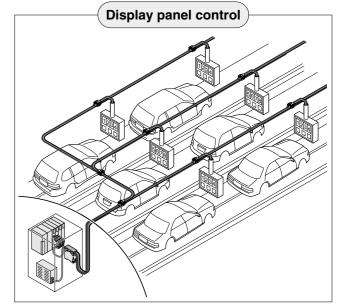
Because T-branching renders layout designing simple, not only is it a wiresaving and construction efficient system, but you can even save time in the actual design stage.

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.



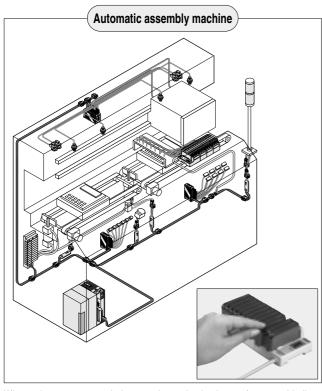
Display equipment can be mounted in automobile production lines to notify operators when malfunctions occur or just to keep a reliable count of units in each line.

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 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

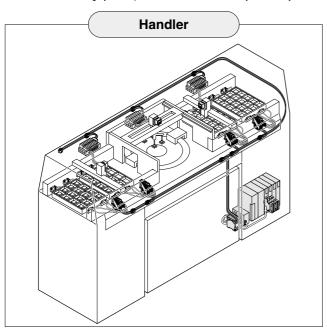


Wire-saving systems are being greatly emphasized even for assembly lines peppered with multiple I/O devices.

Also, to enhance productibility, using a wire-saving system is the key to reliability and avoiding the occurrence of troubles.

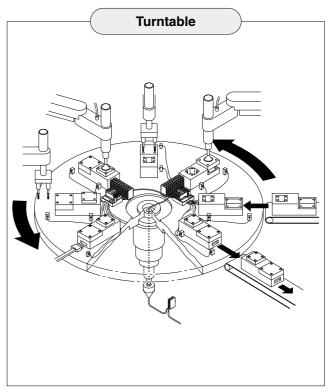
In the S-LINK loop wiring, the system maintains signal transmission even when the loop may break at any one place. In the S-LINK standard wiring, the controller reveals disconnected device addresses when the signal transmission line may break. Further, even if excess current may flow by a short-circuit between the signal transmission lines, the controller shuts down the entire system.

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



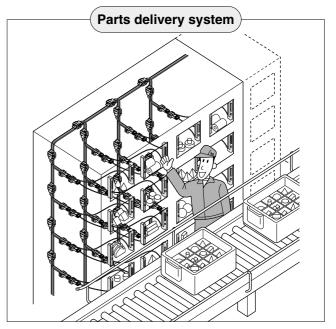
The handler in IC test equipment uses multiple sensors. For this reason, reducing wires or making them more compact as well as lowering cost or minimizing equipment are lingering issues.

S-LINK makes wire-saving and space-saving a reality and solves these problems all at once.



Wiring I/O devices mounted on a rotating board (turntable) can prove to be quite a difficult task. That's because a slip ring that has just as many terminals as wires has to be used. Therefore, developing a large-scale slip ring with a reduced I/O point count was our challenge.

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.



Parts delivery system utilize many small picking sensors that verify the selection of components by personnel.

The inputs equal the number of shelves and if job indicators are used, there are an equal number of outputs.

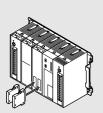
The S-LINK system wires up all the picking sensors with effective space and wire saving. Also, adding more boxes is made easy.

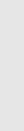
SYSTEM LAYOUT

Upper-level control devices

S-LINK control components











Multi-core cable PLC I/O units



For C bus SL-PC98



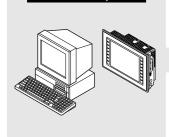
PLC (Direct connection to PLC bus)













For PCI bus SL-PCI

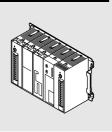


For ISA bus SL-PCAT





Open network compatible PLC











For OPCN-1 / RS-485 SL-CU1-485 OPCN-1

PC + OPCN-1 / RS-485 compatible master station board



Master board for PC/AT SL-PCAT-485









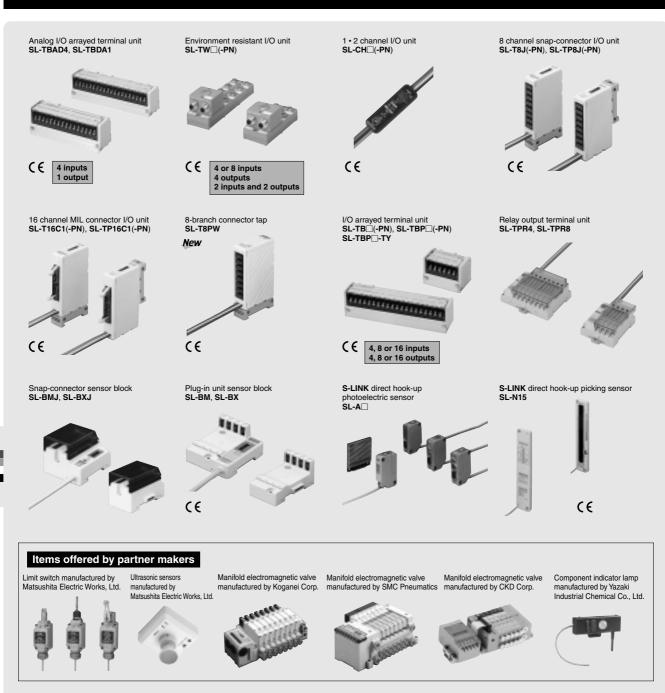


S-LINK gateway controller for OPCN-1 / RS-485 SL-CU1-485

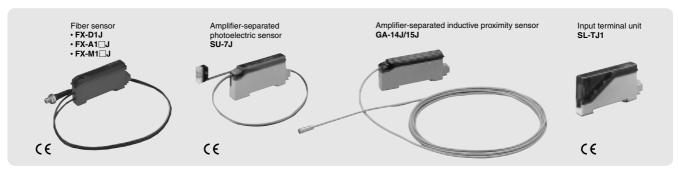


SYSTEM LAYOUT

S-LINK I/O devices

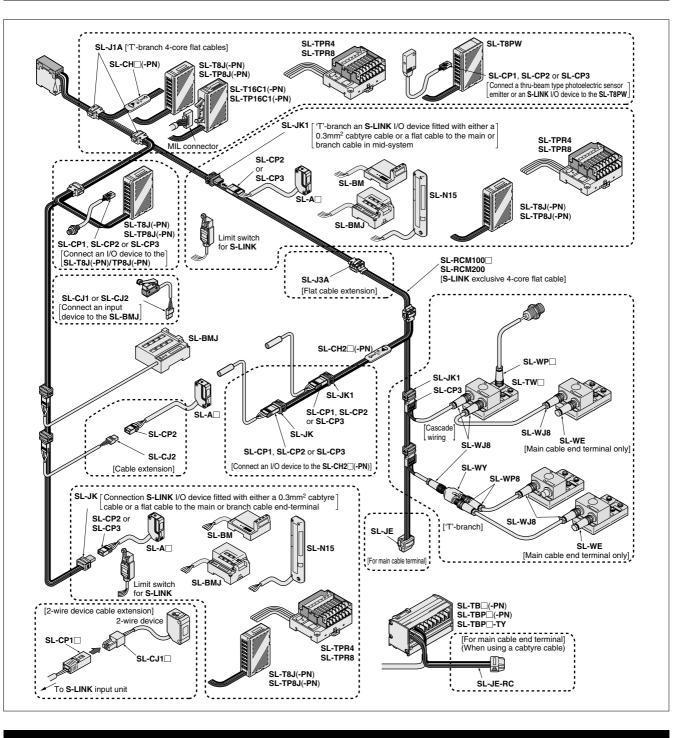


Plug-in units (for SL-BM, SL-BX)



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





ORDER GUIDE

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.
Matsushita Electric Works PLC bus S-LINK controller	1	SL-FP3	It can be directly connected to the bus line of the FP3, FP10S or FP10SH series PLCs manufactured by Matsushita Electric Works, Ltd. (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.
Mitsubishi Electric PLC bus S-LINK controller	New CE	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	1 (€	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.
Matsushita Electric Works PLC bus S-LINK control board		SL-FPC	It can be directly connected to the bus line of the FP-C board type PLC manufactured by Matsushita Electric Works, Ltd. (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.
Sharp Manufacturing Systems PLC bus S-LINK control board	A € (€	SL-Z300	It can be directly connected to the bus line of the J-board Z-300 series board type PLC manufactured by Sharp Manufacturing Systems 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.
PCI bus S-LINK control board	(E	SL-PCI	It can be fitted into the expansion slot (PCI bus) of a personal computer 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/AT S-LINK control board	(E	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/FC-98 series S-LINK control board		SL-PC98	It can be fitted into the expansion slot (C bus) of PC/FC-98 series 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.
VME bus S-LINK control board		SL-VMES2	It can be directly connected to the VME bus line to control the S-LINK system. It provides two S-LINK ports, each allowing 128 I/O points maximum, so that a total of 256 I/O points can be controlled. (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	New C €	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.
Compact PCI S-LINK control board	New CE	SL-CPCI	It can be directly connected to the Compact PCI bus line 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.

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

• Conditions

- ① Cable length between the main power supply and the controller should be less than 10 m 32.808 ft.
 ② When the power is supplied from **S-LINK** controller to 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
- 3 Use a local power supply at a cable distance of <u>less than 10 m 32.808 ft</u> from each I/O device.

ORDER GUIDE

Products for open network

Designation	Appearance (Note)	Model No.	Description
S-LINK gateway controller for CC- Link	(6	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	(6	SL-GU1-D	S-LINK gateway controller for connection to open network DeviceNet.
S-LINK gateway controller for PROFIBUS-DP	(e	SL-GU1-P	S-LINK gateway controller for connection to open network PROFIBUS-DP.
S-LINK gateway controller for INTERBUS	CE	SL-GU1-I	S-LINK gateway controller for connection to open network INTERBUS.
S-LINK gateway controller for OPCN-1 / RS-485		SL-CU1-485	It incorporates S-LINK system control functions and slave functions conforming to OPCN-1 or RS-485 so that it can connect an S-LINK system to a OPCN-1 or RS-485 communication system.
OPCN-1 / RS-485 master board for PC/AT		SL-PCAT-485	It can be installed in the extension slot (ISA bus) of a PC/AT or compatible so that the personal computer can be used as a OPCN-1 master. It incorporates the S-LINK mode (for RS-485 communication) which enables easy control of the S-LINK system and the OPCN-1 mode which enables control of OPCN-1 conforming devices.
OPCN-1 / RS-485 master board for PC/FC-98 series		SL-PC98-485	It can be installed in the extension slot (C bus) of an PC/FC-98 series so that the personal computer can be used as a OPCN-1 master. It incorporates the S-LINK mode (for RS-485 communication) which enables easy control of the S-LINK system and the OPCN-1 mode which enables control of OPCN-1 conforming devices.
OPCN-1 / RS-485 master board for PC/104 bus		SL-PC104-485	It can be installed in the personal computer or board computer of a PC/104 bus so that the personal computer or board computer can be used as a OPCN-1 master. It incorporates the S-LINK mode (for RS-485 communication) which enables easy control of the S-LINK system and the OPCN-1 mode which enables control of OPCN-1 conforming devices.

Note: Components with 'C€' mark conform to the CE marking EMC Directive.

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

Conditions

- ① Cable length between the main power supply and the controller should be less than 10 m 32.808 ft.
 ② When the power is supplied from **S-LINK** controller to 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
- ③ Use a local power supply at a cable distance of less than 10 m 32.808 ft from each I/O device.

PLC related units

Designation	Appearance (Note 1)		Mode	Model No.		Description	
Designation	Appearance (i	iole i)	For input	For output		Description	
Multi-core cable	ulti-core cable		SL-S	SL-S SL-P This is the Multi-core cable PLC I/O unit for cor screw-on terminal type PLC with the S-LINK system Interfaces I/O data between the S-LINK controller ar It includes the I/O data conversion circuit for serial			
		SL-SP	SL-PP	I/O points: 32 Connection	rial conversion. 2 points per unit to screw-on terminal type PLC is by an optional ble attached with an MIL connector on one end.		
Multi-core cable	Multi-core cable PLC I/O unit		SL-L2	2000F	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 'CC' 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 μ F 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.

ORDER GUIDE

PLC related units

			Mode	el No.	Description			
Designation	Appearance	(Note 1)	For input	For output	Manufacturer	PLC	PLC input module (Note 4)	PLC output module (Note 4)
					Matsushita	FP∑ (Excluding the FPG-C32T)	FPG-XY64D2T (X side)	FPG-XY64D2T (Y side)
			SL-S1	SL-P1	Electric Works, Ltd.	FP2 FP3, FP10S	FP2-X32D2	FP2-Y32T
						FP10SH	AFP33027	AFP33487
					Toshiba Machine Co., Ltd.	TC200	TC64DI NS-X64-1	TC64DON NS-Y64-T1
						NS series	NS-XY64-1 (X side) NV1X3204	NS-XY64-1 (Y side)
						F55	NV1X3206	NV1Y32T05P1
		Fujitsu connector specs.	SL-S2	SL-P2	Fuji Electric Co., Ltd.	F70	NC1X3204 NC1X3204-3 NC1X3206 NC1X6404 NC1X6406 NC1W6406T (X side)	NC1Y32T05P1 NC1Y64T05P1-1 NC1W6406T (Y side)
		MIL connector specs.				F80H, F120H F120S F140S F15XS	FTU126A FTU127C FTU612A (X side)	FTU222A FTU227C FTU612A (Y side)
					Fuji Electric Co., Ltd.	SX series SPH	NP1X6406-W	NP1Y32T09P1 NP1Y64T09P1
	PLC I/O connectors Max. four PLC I/O \	PLC input connectors PLC output connectors (same shape) (SL-S3	SL-P3		AnS	A1SX41 A1SX42 A1SH42 (X side)	A1SY41 A1SY42 A1SH42 (Y side)
PLC input connector			SL-33	01.0	Mitsubishi Electric Corp.	AnN, AnA AnU, QnA QnAs	` '	AY42 AH42 (Y side)
PLC output connector	connectors can be cascaded with one					Q A2CJ		QY41P, QY42P AJ35TC1-32T
(Note 2, 3)	S-LINK controller.		SL-S4		Sharp	JW20 JW20H	JW-234N	JW-232S
		connector to be plugged on them for signal		SL-P4	Manufacturing	JW30H	JW-264N JW-34NC	JW-262S JW-32SC
	Control cable Cascade cable	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-S5 SL		Systems Corp.	JW50H	JW-64NC	JW-62SC CS1W-OD231
				SI -P5	Omron Corp.	CS1	CS1W-ID261	CS1W-OD261 CS1W-MD261 (Y side)
						CVM1, CV C500 C1000H C2000H	C500-ID219	C500-OD213
						C200H series	C200H-ID217	C200H-OD218 C200H-OD219
					Hitachi Ltd.	CQM1 EH-150	EH-XD32	CQM1-OD213 EH-YT32
					Yokogawa	FA500	XD64-6N WD64-6N (Y side)	YD64-1A WD64-6N (Y side)
					Electric Corp.	FA-M3	F3XD32-3N F3XD64-3N	F3YD32-1A
					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 GL20. GL40S	XDC24D2H	YTR24DH
			SL-S7		Yasukawa Electric Corp.	GL20, GL40S GL60S, GL60H GL70H	B2605	
End connector			SL-E		It must be con connector.	nected at the	e end of the	ast PLC I/O
			SL-F7		Length: 70 mm			
Cascade cable			SL-F1		Length: 150 mm		It links tw connectors.	o PLC I/O
Cable			SL-F2 SL-F1		Length: 250 mm Length: 1,000 m		CONTINUCTORS.	
		_	SL-C1		Length: 1 m 3.2			
Control achia			SL-C2	2000	Length: 2 m 6.5			ne S-LINK
Control cable			SL-C5		Length: 5 m 16.		PLC I/O con	nd the first nector.
		•	SL-C2	2000F	Length: 2 m 6.5	62 ft	1 LO 1/O COMMECTOR.	

Notes: 1) Components with ' C E' 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.

ORDER GUIDE

S-LINK I/O devices

	Designation	Appearance (Note)	Model No.	Description		
		SL-CH1		NPN type	It can be used as either an input unit or an output unit by switch selection. Hence, a sensor, limit switch, etc., is con	
1 CI	hannel I/O unit	(€	SL-CH1-PN	PNP type	nectable when it is used as an input, and a relay, lamp, etc., is connectable when it is used as an output.	
2 cl	hannel I/O mixed		SL-CH21	NPN type	1 input and 1 output davice are consectable	
unit	t	(6	SL-CH21-PN	PNP type	1 input and 1 output device are connectable.	
	hannel isolation unit	(E	SL-CH21K	NPN type	Electrically insulates output as well as main circuits. It is suitable for power supply remote control function of NEC FA personal computer FC-9821Xa/Ka.	
0 -1			SL-CH20	NPN type		
∠ CI	hannel input unit	(€	SL-CH20-PN	PNP type	- 2 input devices are connectable.	
2 0	hannel output unit		SL-CH22	NPN type	2 output devices are connectable.	
Z ()	manner output unit	(€	SL-CH22-PN	PNP type	2 output devices are connectable.	
	8 channel		SL-T8J	8 NPN inputs		
	snap-connector input unit		SL-T8J-PN	8 PNP inputs	8 input or 8 output devices are connectable with snap male connectors.	
Ξ	8 channel		SL-TP8J	8 NPN outputs	The output unit is incorporated with an output signal hold function, which retains the output state just prior to an error on the signal transmission line.	
nnector I/O unit	snap-connector output unit	(€	SL-TP8J-PN	8 PNP outputs		
necto	16 channel		SL-T16C1	16 NPN inputs		
Ö	MIL 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		SL-TP16C1	16 NPN outputs	The output unit is incorporated with an output signal hold function, which retains the output state just prior to an error on the signal transmission line.	
	MIL connector output unit	CE	SL-TP16C1-PN	16 PNP outputs		
I/O arrayed termir	Input terminal	CE	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.	
	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.	

Note: Components with ' $\textbf{C}\,\textbf{E}$ ' mark conform to the CE marking EMC Directive.

ORDER GUIDE

S-LINK I/O devices

	Designation	Appearance (Note 1)	Model No.		Description
			SL-TW4	4 NPN inputs	
			SL-TW4-PN	4 PNP inputs	These are units which can connect 4 or 8 input devices. They feature IP67 (IEC 60529) protection, which can withstand
	Input unit		SL-TW8	8 NPN inputs	water splashes. The input devices can be easily connected by using optional composite connectors.
) unit			SL-TW8-PN	8 PNP inputs	
Environment resistant I/O unit	I/O mixed unit		SL-TW2P2	2 NPN inputs and 2 NPN outputs	These are units which can connect 2 inputs and 2 outputs. They feature IP67 (IEC 60529) protection, which can withstand water splashes.
Environmer	I/O mixed unit	CE	SL-TW2P2-PN	2 PNP inputs and 2 PNP outputs	They are incorporated with an output signal hold function, which retains the output state just prior to an error on the signal transmission line.
	Output unit		SL-TWP4	4 NPN outputs	These can connect 4 output devices. They feature IP67 (IEC 60529) protection, which can withstand water splashes.
	Output unit		SL-TWP4-PN	4 PNP outputs	They are incorporated with an output signal hold function, which retains the output state just prior to an error on the signal transmission line.
			SL-TB4	4 NPN inputs	
	Input terminal		SL-TB4-PN	4 PNP inputs	
			SL-TB8	8 NPN inputs	They are screw-on terminal units to which 4, 8 or 16 input devices are connectable. Since power supply terminals have
	input terminal		SL-TB8-PN	8 PNP inputs	been provided for two input channel, neat wiring is possible.
			SL-TB16	16 NPN inputs	
ni:			SL-TB16-PN	16 PNP inputs	
/O arrayed terminal unit			SL-TBP4	4 NPN outputs	
ed terr			SL-TBP4-PN	4 PNP outputs	
array	Output terminal	Discourse	SL-TBP8	8 NPN outputs	They are screw-on terminal units to which 4, 8 or 16 output devices are connectable. The output unit is incorporated with
2	Output terminal	The state of the s	SL-TBP8-PN	8 PNP outputs	an output signal hold function, which retains the output state just prior to an error on the signal transmission line.
		C€	SL-TBP16	16 NPN outputs	
			SL-TBP16-PN	16 PNP outputs	
	0		SL-TBP4-TY	4 NPN outputs	They enable forced turning OFF of the output device
	Separate load power supply type		SL-TBP8-TY	8 NPN outputs	connected to the output terminal without halting the complete S-LINK system, by switching off the load power
	1177777		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. They are incorporated with an output signal hold function
Relay output	8 relay output		SL-TPR8	8 outputs (Note 2)	which retains the output state just prior to an error on the signal transmission line.

Notes: 1) Components with 'CC' 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 Matsushita Electric Works, Ltd.

ORDER GUIDE

S-LINK I/O devices

	Designation		Appearance (Note 1)	Model No.			Description		
	Snap-connector	Sensor main block		SL-BMJ	sors, inducti female conr transmits the one SL-BXJ / It can gen	It allows connection of various kinds of input devices, such as, photoeles sors, inductive proximity sensors, limit switches, and push buttons with female connectors. Changes signals from input devices into serial signals transmits them to the signal transmission line. One SL-BMJ can be exone SL-BMJ or two SL-BMS, up to 16 input points. (It can generate the ORed self-diagnosis output of all the connected of the line of the signal transmission line.)			
· block	Snap	Extension block		SL-BXJ	It can follow	either main bl	ock, and allows connection of 8 input devices.		
Sensor block	plug-in unit	Sensor main block	(E	SL-BM	plug-in units One SL-BM up to 16 inpu	into serial sig can be exten ut points.	urious kinds of plug-in units and changes signals from nals and transmits them to the signal transmission line. ded by three SL-BXs or one SL-BX plus one SL-BXJ, and self-diagnosis output of all connected units. In this ts occupied.		
	For p	Extension block	CE CE	SL-BX	It can follow	can follow either main block, and allows connection of four plug-in units.			
	Digital setting fiber sensor (Note 2)			FX-D1J	Red LED	and the thre LCD. Further switch.	is merely 10 mm 0.394 in. The incident light intensity shold value can be seen at a glance from the backlight er, threshold value setting is simple by using the jog please contact our office.)		
		o-setting r sensor		FX-A1J FX-A1GJ	Red LED Green LED	simple by use LEDs, which have been in	is is merely 10 mm 0.394 in. The sensitivity setting is sing the jog switch. Level indicators, comprising of 10 n enable confirmation of the set sensitivity at a glance, ncorporated. please contact our office.)		
	Max	avally oot	(€	FX-M1J	Red LED	,	kness is merely 10 mm 0.394 in. Since the sensitivity setting		
Plug-in unit		nually set r sensor		FX-M1GJ	Green LED		12-turn potentiometer, fine setting is possible. please contact our office.)		
-blug-	sep	plifier- arated toelectric sor	(E	SU-7J	Its thickness is merely 10 mm 0.394 in. The sensitivity is automatically ease.12 kinds of sensor heads are suitable with it. (For details, refer to p.386~ for the SU-7 series.) Its thickness is merely 10 mm 0.394 in. The sensitivity is so precisely set 18-turn adjuster that the sensor is suitable for sophisticated application.		eads are suitable with it.		
	sepa	lifier- trated Clamping type		GA-14J			mm 0.394 in. The sensitivity is so precisely set with the sensor is suitable for sophisticated applications with a		
		scrive simity sor sor sor street stre		GA-15J	high repeata	bility of 1 μ m	0.039 mil or less. ∼ for the GA-10 series.)		
	Inpi	ut terminal	(€	SL-TJ1			No. of various kinds of input devices, such as, a photo- re proximity sensor or a limit switch.		
			Retroreflective type with polarizing filters	SL-A11	Thru-beam type	e 10 m 32.808 ft			
		direct photoelectric		SL-A13		e 30 m 98.425 ft	These can be hooked up to the S-LINK cable, at any		
	sensor			SL-A19		pe with polarizing 0.328 to 16.404 ft	place, without any interface.		
			Thru-beam type Diffuse reflective type	SL-A12	700 mm 27.				
hoo	S-LINK direct hook-up picking sensor		CE	SL-N15	(0.05 to 1 m 0.16 when the switch Beam pitch: 2 Sensing height: Sensing objet \$\phi 35\$ mn	64 to 3.281 ft n is set to SHORT 25 mm 0.984 in 100 mm 3.937 in	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.		

Notes: 1) Components with 'C €' mark conform to the CE marking EMC Directive.
2) Output 2 cannot be used when connection is made to the plug-in unit sensor block.

ORDER GUIDE

Connectors

ectors							
signation	Appearanc	е	Model No.	Desc	ription		
Hook-up connector (Note)		SL-J1A 10 pcs. per set	It creates a 'T'-branch connection between two S-LINK exclusive flat cables (For 0.5 mm² flat cable to 0.5 mm² flat cable connection (Gray) Applicable hook-up pliers: SL-JPS , SL-JPD				
extension p connector		(Note)	SL-J3A 10 pcs. per set	It can extend the S-LINK exclusive flat cable (4-core). For 0.5 mm ² flat cable to 0.5 mm ² flat cable connection (Black) Applicable hook-up pliers: SL-JPS . SL-JPD			
ok-up tor		(Note)	SL-JE 5 pcs. per set	For 0.5 mm ² flat cable (Gray)			
attached end tor			SL-JE-RC	When cabtyre cable is used as the mai connected.	n cable, the end connector can be easily		
end socket- p connector		(Note)	SL-JK 10 pcs. per set	cable (4-core) end with the snap male co			
nch hook-up tor			SL-JK1 10 pcs. per set	exclusive 0.5 mm ² flat cable (4-core) with	nched off in the middle of the S-LINK the snap male connector (SL-CP).(Blue)		
rpe snap			SL-CJ1 (White) 10 pcs. per set	For 0.08 to 0.2 mm² (Conductor cross-section area) Wire dia.: ϕ 0.7 to ϕ 1.2 mm ϕ 0.028 to ϕ 0.047 in	This snap female connector is used for plugging into the socket of SL-BMJ or SL-BXJ to connect an input device, or		
connector	connector	(Note)	SL-CJ2 (Black) 10 pcs. per set	For 0.3 mm² (Conductor cross-section area) Wire dia.: ϕ 1.1 to ϕ 1.6 mm ϕ 0.043 to ϕ 0.063 in	into the snap male connector SL-CP1 or SL-CP2 Applicable hook-up pliers: SL-JPC		
			SL-CP1 (White) 10 pcs. per set	For 0.08 to 0.2 mm² (Conductor cross-section area) Wire dia.: ϕ 0.7 to ϕ 1.2 mm ϕ 0.028 to ϕ 0.047 in	This snap male connector is used for connecting S-LINK I/O devices to		
rpe snap onnector		(Note)	SL-CP2 (Black) 10 pcs. per set	For 0.3 mm² (Conductor cross-section area) Wire dia.: ϕ 1.1 to ϕ 1.6 mm ϕ 0.043 to ϕ 0.063 in	SL-T8J(-PN) and SL-TP8J(-PN) 8-chan- nel snap-connector I/O units as well as to SL-JK and SL-JK1 hook-up connectors.		
		(Note)	SL-CP3 (Greenish blue) 10 pcs. per set	For 0.5 mm ² (Conductor cross-section area) Wire dia.: ϕ 1.7 to ϕ 2.5 mm ϕ 0.067 to ϕ 0.098 in	Applicable hook-up pliers: SL-JPC (for the SL-CP1 and SL-CP2) SL-JPE (for the SL-CP3)		
			SL-WP4 10 pcs. per set	For 0.18 to 0.75 mm² (Conductor cross-section area) Wire dia.: \$3 to \$\phi 4\$ mm \$\phi 0.118\$ to \$\phi 0.157\$ in			
mnosite male		SL-WP5 10 pcs. per set	For 0.18 to 0.75 mm² (Conductor cross-section area) Wire dia.: ϕ 4 to ϕ 5 mm ϕ 0.157 to ϕ 0.197 in	These are composite male connectors for connection of input or output devices to the environment resistant I/O unit			
nnector			SL-WP6 10 pcs. per set	For 0.18 to 0.75 mm² (Conductor cross-section area) Wire dia.: ϕ 5 to ϕ 6 mm ϕ 0.197 to ϕ 0.236 in	SL-TW\(-\text{PN}\), and for connection to the branch connector SL-WY or the composite female connector SL-WJ8.		
			SL-WP8 10 pcs. per set	For 0.3 to 0.75 mm² (Conductor cross-section area) Wire dia.: ϕ 6 to ϕ 8 mm ϕ 0.236 to ϕ 0.315 in			
omposite nale nnector			SL-WJ8 10 pcs. per set	For 0.3 to 0.75 mm² (Conductor cross-section area) Wire dia.: \$\psi\$ to \$\phi\$8 mm \$\phi\$0.236 to \$\phi\$0.315 in	These are composite female connectors for connection to the main cable side of the environment resistant I/O unit SL-TW_(-PN), and for connection to the branch connector SL-WY or the composite male connector SL-WP		
anch nnector			SL-WY 5 pcs. per set		main / branch cable and for connection of or to the environment resistant I/O unit		
vironment sistant end nnector			SL-WE	It is connected when the environment resistant I/O unit SL-TW _(- PN) is used the end of the main cable.			
for M12 male			SL-WPK 10 pcs. per set	Make sure to put it on the unused main cable side connectors of the environment resistant I/O unit SL-TW (-PN).			
or M12 connector	8		SL-WJK 10 pcs. per set	Make sure to put it on the unused I/resistant I/O unit SL-TW [- PN].	O side connectors of the environment		
	signation p connector extension o connector ok-up tor end socket- o connector ch hook-up tor pe snap connector mposite male nnector minector wironment sistant end nnector or M12 male tor mor M12 male more male more more male more more male more more male more more more more more more more more	signation Appearance p connector p connect	signation Appearance p connector (Note) extension occonnector (Note) extension occonnect	Appearance Model No. SL-J1A 10 pcs. per set Interception Interceptio	Model No. Desc		

Note: For UL compatibility, please contact our office.

ORDER GUIDE

Basic units

	Designation		Appearance	Model No.		Description
		Input		SL-M8	8 inputs	
	e	module		SL-M16	16 inputs	
	A l/O mixed module Output module	100	SL-M4P4	4 inputs and 4 outputs		
			SL-MP8	8 outputs		
I/O module		module		SL-MP16	16 outputs	These are IC type modules which enable external connection of address setting switches and operation indicators.
I/O m		Input	е	SL-M8F	8 inputs	They increase the design flexibility.
	/be	module		SL-M16F	16 inputs	
	ed (A) Island (A) Isla		In the latest of	SL-M4P4F	4 inputs and 4 outputs	
		Output		SL-MP8F	8 outputs	
		module			16 outputs	

Optional units

Designation	Appearance (Note)	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 'C ϵ ' mark conform to the CE marking EMC Directive.

OPTIONS

Others

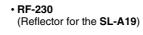
Designation	Appearance	Model No.		Desc	ription	
8-branch connector tap	New	SL-T8PW	Connects easily to up to 8 thru-beam type photoelectric sensor emitters o S-LINK I/O devices with snap male connectors.			
2-pin type snap		SL-CJ12 (White) 10 pcs. per set SL-CJ22 (Black)	Wire dia.: φ0.7 to φ1	Conductor cross-section area) 1.2 mm \$\phi 0.028\$ to \$\phi 0.047\$ in	It can be used for cable extension of 2-wire I/O devices by combining with a snap male connector SL-CP12 or	
	(Note)	10 pcs. per set SL-CP12 (White)	Wire dia.: φ1.1 to φ1	.6 mm ϕ 0.043 to ϕ 0.063 in Conductor cross-section area)	SL-CP22.	
2-pin type snap male connector		10 pcs. per set SL-CP22 (Black)	Wire dia.: $\phi 0.7$ to $\phi 1$	1.2 mm ϕ 0.028 to ϕ 0.047 in luctor cross-section area)	It can used for cable extension of 2-wire I/O devices by combining with a snap female connector SL-CJ12 or SL-CJ22.	
	(Note)	10 pcs. per set SL-RCM100		.6 mm \$\phi 0.043 to \$\phi 0.063 in \] D line: White		
	_	SL-RCM100 SL-RCM100-PK	_	D line: White with		
Exclusive flat cable		SL-RCM100-FK	Length: 100 m 328.084 ft	pink stripe D line: White with	S-LINK / S-LINK V exclusive flat cable (4-core)	
(4-core)		SL-RCM100-GY		green stripe D line: White with	Conductor cross-section area: 0.5 mm ² Outer diameter: ϕ 2.5 mm ϕ 0.098 in \times 4	
	_	SL-RCM200	Length: 200 m 65	gray stripe 56.168 ft, D line: White		
Exclusive cabtyre	(Note)	SL-CBM100	Length: 100 m 328.084ft		S-LINK / S-LINK V exclusive cabtyre cable (4-core)	
cable (4-core)		SL-CBM200	Length: 200 m 656.168 ft		Conductor cross-section area: 0.5 mm ² Outer diameter: \$\phi\$7.4 mm \$\phi\$0.291 in (Hook-up connector cannot be used)	
Exclusive pliers		SL-JPS	Hook-up connector (SL-J □) can be connected in one grip.			
Exclusive ratchet pliers		SL-JPD	Because of the connected in one		ok-up connector (SL-J □) can be simply	
SL-CP3 exclusive pliers		SL-JPE	4-pin type snap male connector (SL-CP3) can be connected in one grip.			
Male / female connector exclusive pliers		SL-JPC	Snap female connector (SL-CJ□) and snap male connector (SL-CP1/CP2 and SL-CP11/CP12) can be connected in one grip.			
Address label		SL-MA1-SET 4 sheets per set	be confirmed at gray colors, as a	By sticking the labels on the respective S-LINK devices, the set addresses be confirmed at one glance. SL-MA1-SET is available in white, pink, green gray colors, as a 4-sheet set, and is convenient when used by matching the with that of the S-LINK exclusive flat cable (100 m 328.084 ft type).		
Marking plate		SL-MA2 20 pcs. per set	It is used to write the I/O device No., address No., etc., on the environment resistant I/O unit SL-TW □(- PN).		address No., etc., on the environment	
DIN rail mounting bracket for the SL-CH□		MS-CH × 10 10 pcs. per set	Mounting bracket enabling the SL-CH \square (-PN) I/O units to be mounted on 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.)		also be affixed with screws.	
I/O unit holder for SL-CH□		MS-SLH 5 pcs. per set		nt the SL-CH □(-PN) ur two M4 pan-head screv		

Note: For UL compatibility, please contact our office.

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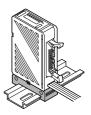
Accessories

· NPS-CV / Protective cover for the SL-CU1A,\ \SL-BS1A or SL-CU1-485



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

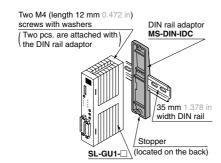




OPTION

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 bracket for SL-N15	MS-NA1-1	Four bracket set Four M4 (length 15 mm 0.591 in) screws with washers, eight nuts, four hooks, four spacers and eight M4
	MS-NA2-1	(length 18 mm 0.709 in) screws with washers are attached. (Spacers are not attached with MS-NA1-1.)
Sensor protec-	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.
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 mount- ing 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 adaptor	MS-DIN-IDC	This adaptor is used when mounting the SL-GU1-□ to the 35 mm 1.378 in DIN rail.

DIN rail adaptor • MS-DIN-IDC



Sensor mounting bracket for SL-A□ • MS-NX5-2

• MS-NX5-1





• MS-NX5-3



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



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



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

Sensor mounting bracket for SL-N15 • MS-NA1-1

• MS-NA2-1







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

Sensor protection bracket for SL-N15

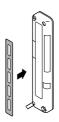
- · MS-NA3
- MS-NA3-BK



M4 screws with washers and

Slit mask for SL-N15

• OS-NA1-5



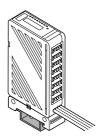
Reflector mounting bracket • MS-RF23



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

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

• MS-DIN-3



PRECAUTIONS FOR PROPER USE



- This product does not possess control functions needed for accident prevention or safety maintenance. Handle safety related or emergency stop signals without passing them through the S-LINK system due to fail-safe 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 SILINK are not mutually interchangeable with the flexible wire-saving system **ISLINK** and cannot be mixed and 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]

Matsushita Electric Works, Ltd.



Mitsubishi Electric Corp.



Toyoda Machine Works Co., Ltd.



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

Limit switches Matsushita Electric Works, Ltd.



Ultrasonic sensors Matsushita Electric Works, Ltd.



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