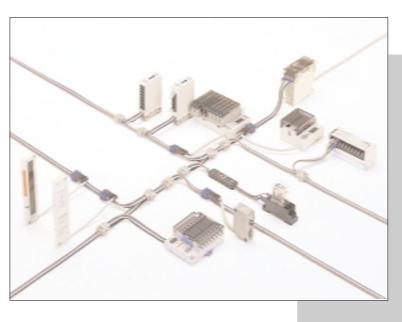
Sensor & Wire-saving Link System

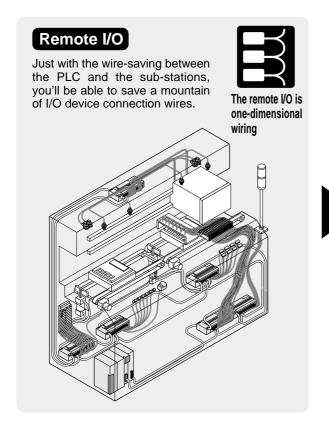


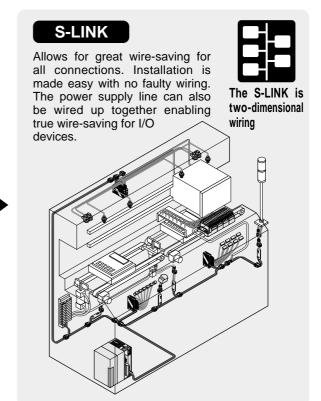
S-LINK transmits 128 points on two signal lines, and 'T'-branch multi-drop system enabling flexible cable layout

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





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.

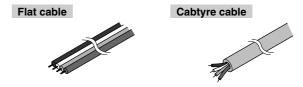
Refer to 'SYSTEM LAYOUT' on p.1038~ or the S-LINK partner maker information page on p.1051 for more details.

Programming unnecessary

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

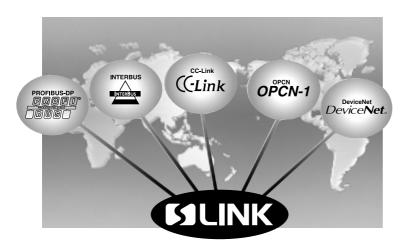
Commercially available cables can also be used

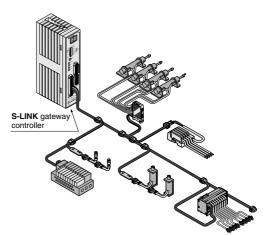
You can use, apart from specially made 4-core cables, commercially available cables such as flexible, heat-resistant, or fluorine resin sheath cables singly or in combination (conductor cross-section area 0.5 to 1.25 mm², the SL-TW series has a conductor cross-section area of 0.5 to 0.75 mm²).



Upper-level network connection possible

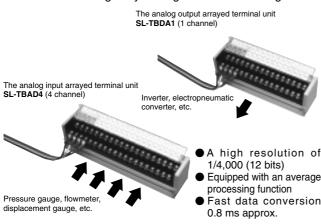
Because it can be connected to any main open network, long-distance and multi-point transmission networks can be constructed enabling a greatly enhanced network upgrade. Also, by wiring up scattered bit-oriented I/O devices that include mostly connected sensors and switches, an efficient wire-saving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

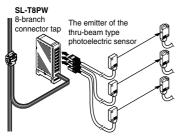
Also available is the A/D conversion function equipped SL-TBAD4 and the D/A conversion function equipped SL-TBDA1 enabling easy analog device wire-saving.



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.

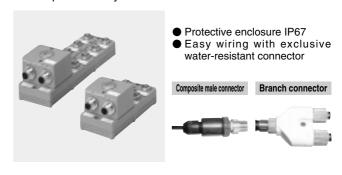
We've realized the industry's highest level of noise proofing enabling them to be used even in worksites with conventional, high-priced optical communication remote I/O units.

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.



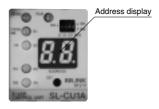
Conforms to CE marking

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

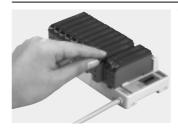
The transmission line connection is realized via T-branch multi-drop wiring with hook-up connectors. Adding devices is rendered easy and maintenance is easy.

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.

S-LINK

Plug-in units

Fiber sensor

Amplifier-separated photoelectric sensor Amplifier-separated inductive proximity

Input terminal unit

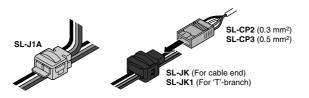


We've provided all types of hook-up connectors. Connections from S-LINK I/O devices to the main cable and from sensors and other devices to S-LINK I/O devices are all realized with one-touch hook-up connectors. They can be connected anywhere quickly and maintenance is easy.

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

Simple and reliable connections

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

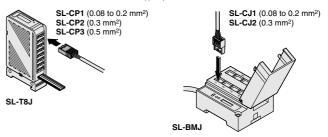


In addition, to enhance the reliability of the crimping, S-LINK exclusive pliers are made available so that anyone can do it with ease.



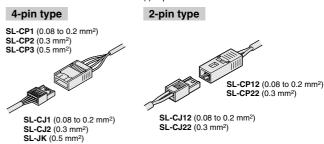
Connection from various connected units to S-LINK I/O devices

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

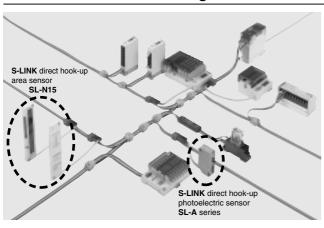


Connected device extensions

*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 Matsi manufactured by Matsushita valve manufactured by Electric Works, Ltd. Electric Works, Ltd. Koganei Corp. SMC Pneumatics









manufactured by Yazaki Industrial Chemical Co., Ltd

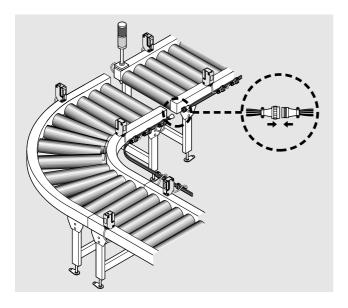




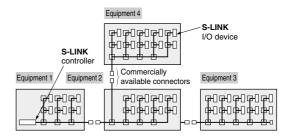
Mid-system main / branch cable installation and removal possible

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.

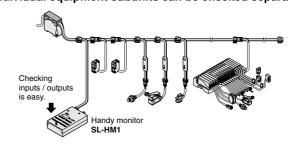
In addition, when assembling the equipment, the S-LINK can work even disconnected from the PLC enabling software (PLC programming) and hardware (machine assembly, I/O check) work to be done concurrently, which results in guick delivery time. With the handy monitor, I/O devices can be checked for each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

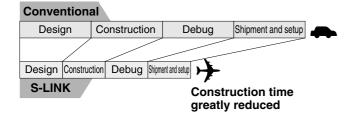


Total cost reductions and great savings in setup time

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.

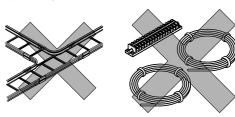
The S-LINK system:

- 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

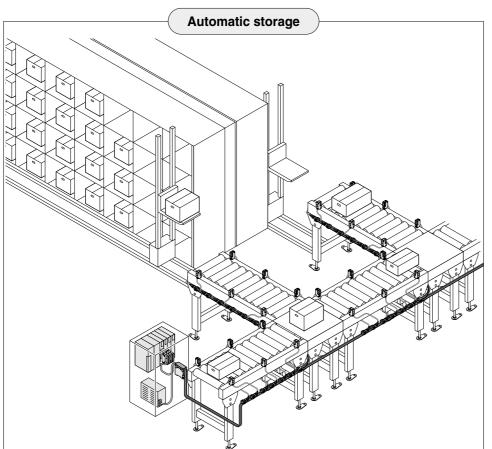
Because of great reductions in the amount of intermediate terminal blocks and cables needed, you can save space and minimize the size of your control board and machines. This will finally let you put all that wasted space to good use.

The control box

can be of smaller size

APPLICATIONS

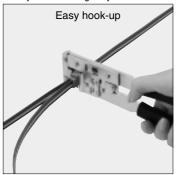
Distributed installation

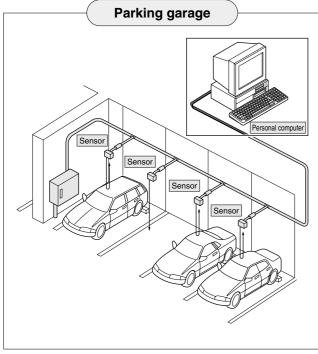


Because conveyors have multiple I/O device points, wire-saving and construction efficiency are the key to lowering overall costs. Other systems may be wire-saving but if they can't prove useful for longdistance distribution lines or be reliable, then they are useless. On this point, the S-LINK system 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.

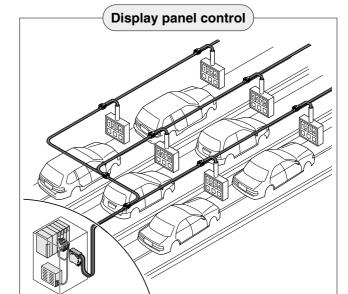
Because T-branching renders layout designing simple, not only is it a wiresaving and construction efficient system, but you can even save time in the actual design stage.

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.



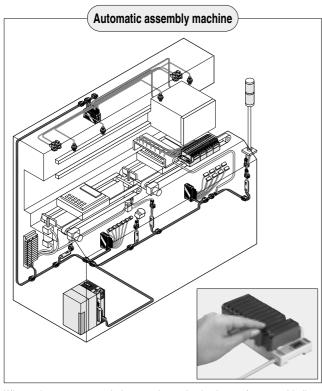
Display equipment can be mounted in automobile production lines to notify operators when malfunctions occur or just to keep a reliable count of units in each line.

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

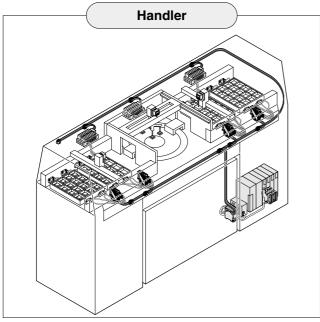


Wire-saving systems are being greatly emphasized even for assembly lines peppered with multiple I/O devices.

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

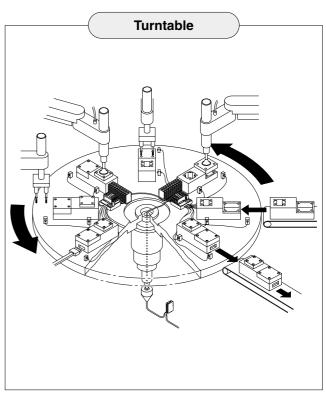
In the S-LINK loop wiring, the system maintains signal transmission even when the loop may break at any one place. In the S-LINK standard wiring, the controller reveals disconnected device addresses when the signal transmission line may break. Further, even if excess current may flow by a short-circuit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

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



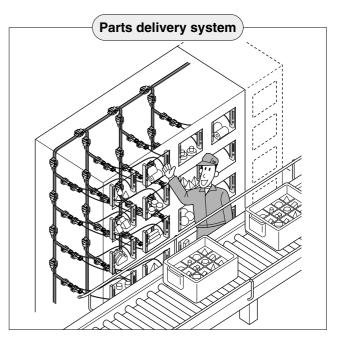
The handler in IC test equipment uses multiple sensors. For this reason, reducing wires or making them more compact as well as lowering cost or minimizing equipment are lingering issues.

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.

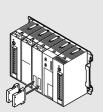
The S-LINK system wires up all the picking sensors with effective space and wire saving. Also, adding more boxes is made easy.

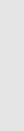
SYSTEM LAYOUT

Upper-level control devices

S-LINK control components









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Multi-core cable PLC I/O units



For C bus SL-PC98

S-LINK controller



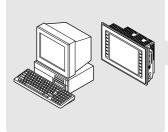
PLC













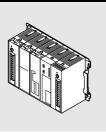
For PCI bus SL-PCI







Open network compatible PLC













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



Master board for PC/AT SL-PCAT-485







Master board for PC/104 bus SL-PC104-485



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

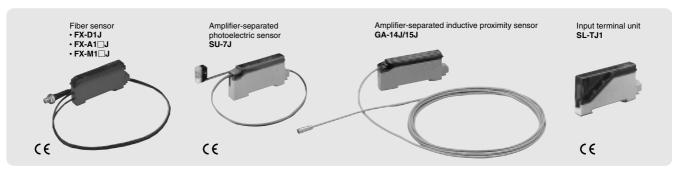


SYSTEM LAYOUT

S-LINK I/O devices

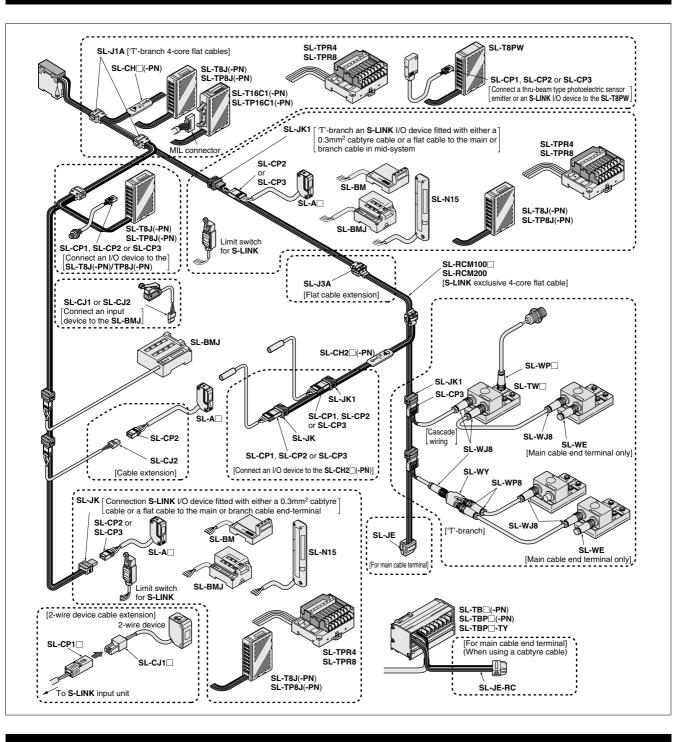


Plug-in units (for SL-BM, SL-BX)



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	€ C€	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	î ce	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	CE CE	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	(6	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	CE CE	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	The same	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 (€	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 C E	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 ' (f' 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 ft. 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.

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	(6	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)		Model No.		Description			
Designation	Appearance (i	For input For		For output		Description		
Multi-core cable			SL-S	SL-P	This is the Multi-core cable PLC I/O unit for connecting 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 para			
PLC I/O unit ed type		← (€	SL-SP	SL-PP	I/O points: 33 Connection	erial conversion. 2 points per unit to screw-on terminal type PLC is by an optional able attached with an MIL connector on one end.		
Multi-core cable	Multi-core cable PLC I/O unit	lulti-core cable		2000F	Length: 2 m 6.562 ft			

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 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.

ORDER GUIDE

PLC related units

Docionation	Annograno	(Note 1)	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,	FP2	FP2-X32D2	FP2-Y32T	
					Ltd.	FP3, FP10S FP10SH	AFP33027	AFP33487	
					Toshiba Machine Co., Ltd.	TC200	TC64DI	TC64DON	
						NS series	NS-X64-1 NS-XY64-1 (X side)	NS-Y64-T1	
						F55	NV1X3204 NV1X3204-W NV1X3206		
		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	FTU125A FTU126A FTU127C FTU612A (X side)	FTU222A FTU227C FTU612A (Y side)	
					Fuji Electric Co., Ltd.	SX series SPH	NP1X3206-W NP1X6406-W		
					Co., Liu.		A1SX41	A1SY41	
	PLC input connectors PLC output connectors (same shape) PLC I/O connectors Max. four PLC I/O connectors can be cascaded with one cascade	PLC output connectors (same shape)	SL-S3	SL-P3		AnS	A1SX42 A1SH42 (X side)	A1SY42 A1SH42 (Y side	
_C input onnector				3L-F3	Mitsubishi Electric Corp.	AnN, AnA AnU, QnA QnAs	AX42 AH42 (X side)		
.C output					Q A2CJ	QX41, QX42 AJ35TC1-32D			
nnector ote 2, 3)	S-LINK controller.	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-S4 SL-		SharpP4 Manufacturing	JW20 JW20H	JW-234N	JW-232S	
, ,				SL-P4		JW30H	JW-264N	JW-262S	
	PLC End connector Cascade cable			0214	Systems Corp.	JW50H	JW-34NC JW-64NC	JW-32SC JW-62SC	
				SL-P5	Omron Corp.	CS1	CS1W-ID231 CS1W-ID261 CS1W-MD261 (X side)	CS1W-OD261	
						CVM1, CV C500 C1000H C2000H		C500-OD213	
						C200H series	C200H-ID216 C200H-ID217		
			SL-S5			CQM1	CQM1-ID213		
					Hitachi Ltd.	EH-150	EH-XD32 XD64-6N	EH-YT32 YD64-1A	
					Yokogawa Electric Corp.	FA500	WD64-6N (X side) F3XD32-3N	WD64-6N (Y side	
					•	FA-M3	F3XD64-3N DI-335	F3YD64-1A	
					Toshiba Corp.	Т3	DI-335H	DO-335	
					Yasukawa Electric	GL20, GL40S GL60S, GL60H		B2604	
					Corp.	GL70H		D2004	
			SL-S6	SL-P6	Hitachi Ltd.	H series	XDC24D2H	YTR24DH	
			SL-S7		Yasukawa Electric Corp.	GL20, GL40S GL60S, GL60H GL70H			
nd connector		O O	SL-E		It must be con connector.		e end of the	last PLC I/O	
		~ ~	SL-F7	70	Length: 70 mm	2.756 in			
ascade			SL-F		Length: 150 mm	5.906 in		o PLC I/O	
able			SL-F2		Length: 250 mm		connectors.		
			SL-F1		Length: 1,000 m				
			SL-C		Length: 1 m 3.2		It links th	ne S-LINK	
			SL-C	といいい	cor			s the S-LINK ler and the first	
control cable			SL-C		Length: 5 m 16.		controller a		

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 C	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 daying are connectable
uni	t	(€	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.
0.5	hannal innut unit		SL-CH20	NPN type	Q input do igno are connectable
2 C	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.
20	namer 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.
nj.	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	
Š	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	C€	SL-TP16C1-PN	16 PNP outputs	
ed terminal unit	Input terminal	(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 arrayed terminal unit	Output terminal	CE 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 ' $\mathbf{C}\,\mathbf{C}$ ' 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.
O 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
		2272	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	
ninal u			SL-TBP4	4 NPN outputs	
ed terr		DEPT.	SL-TBP4-PN	4 PNP outputs	
/O arrayed terminal unit	Output terminal	Divinos	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	
	Corrects		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
			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 to	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	ve proximity s nectors. Chan em to the sign or two SL-BX erate the ORe	rious kinds of input devices, such as, photoelectric sen- ensors, limit switches, and push buttons with the snap ges signals from input devices into serial signals and all transmission line. One SL-BMJ can be extended by ts, up to 16 input points. ad self-diagnosis output of all the connected devices. Innel gets occupied.		
· 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 into serial signals and One SL-BM can be extended by the up to 16 input 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	either main bl	ock, and allows connection of four plug-in units.		
	fibe	ital setting r sensor te 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.)		
		Auto-setting liber sensor		FX-A1J FX-A1GJ	Red LED Green LED	Its thickness is merely 10 mm 0.394 in. The sensitivity settir simple by using the jog switch. Level indicators, comprising of LEDs, which enable confirmation of the set sensitivity at a glahave been incorporated. (For details, please contact our office.)			
	Max	avally oot	(€	FX-M1J	Red LED	,	thickness is merely 10 mm 0.394 in. Since the sensitivity setting		
Plug-in unit		nually set r sensor				one by a 12-turn potentiometer, fine setting is possible. r details, please contact our office.)			
-blug-	sep	plifier- arated toelectric sor	(E	SU-7J	ease.12 kind	is is merely 10 mm 0.394 in. The sensitivity is automatically sets of sensor heads are suitable with it. refer to p.386 \sim for the SU-7 series.)			
	sepa	lifier- trated Clamping type		GA-14J		ss is merely 10 mm 0.394 in. The sensitivity is so precisely set with the juster that the sensor is suitable for sophisticated applications with			
		scrive simity sor sor sor street stre		GA-15J	high repeata	high repeatability of 1 μ m 0.039 mil or less. (For details, refer to p.754 \sim 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

ctors							
ignation	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 (4- For 0.5 mm² flat cable to 0.5 mm² flat cable connection (Gray) Applicable hook-up pliers: SL-JPS, SL-JPD				
connector		(Note)	SL-J3A 10 pcs. per set	For 0.5 mm ² flat cable to 0.5 mm ² flat ca	ble connection (Black)		
k-up or		(Note)	SL-JE 5 pcs. per set	For 0.5 mm ² flat cable (Gray)			
tached end			SL-JE-RC	When cabtyre cable is used as the mai connected.	n cable, the end connector can be easily		
nd socket- connector		(Note)	SL-JK 10 pcs. per set	cable (4-core) end with the snap male co			
ch hook-up or			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)		
e 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		(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		
/pe snap onnector (Note)	(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.: ϕ 3 to ϕ 4 mm ϕ 0.118 to ϕ 0.157 in			
nposite male nector		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			
		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\(\text{-}\text{CPN}\), 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			
nposite ale nector			SL-WJ8 10 pcs. per set	For 0.3 to 0.75 mm² (Conductor cross-section area) Wire dia.: \$\phi 6\$ 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		
nch nector			SL-WY 5 pcs. per set		main / branch cable and for connection of or to the environment resistant I/O unit		
ironment stant end nector			SL-WE	It is connected when the environment resistant I/O unit SL-TW [-(-PN) is used the end of the main cable.			
r M12 male			SL-WPK 10 pcs. per set	Make sure to put it on the unused main cable side connectors of the environmen resistant I/O unit SL-TW□(-PN).			
r M12 onnector			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		
	gnation connector tension connector c-up ir ached end ir d socket- connector h hook-up ir e snap onnector apposite male nector connector connector	gnation Appearance connector tension connector c-up or ached end or d socket- connector h hook-up or e snap onnector apposite male nector ached end or manual end	gnation Appearance connector tension connector (Note) coup or (Note) ached end or d socket- connector (Note) h hook-up or e snap onnector (Note) e snap onnector (Note) apposite male elector connector (Note) (Note) (Note)	gnation Appearance Model No. connector connector (Note) SL-J1A 10 pcs. per set SL-JB 5 pcs. per set SL-JE-RC d socket- connector (Note) SL-JK1 10 pcs. per set SL-JK1 10 pcs. per set SL-JK1 10 pcs. per set SL-CJ1 (White) 10 pcs. per set SL-CJ2 (Black) 10 pcs. per set SL-CP1 (White) 10 pcs. per set SL-CP2 (Black) 10 pcs. per set SL-CP3 (Greenish blue) 10 pcs. per set SL-WP4 10 pcs. per set SL-WP5 10 pcs. per set SL-WP6 10 pcs. per set SL-WP8 10 pcs. per set	SL-J1A SL-J1A It creates a T'-branch connection between For 0.5 mm² flat cable to 0.5 mm² flat cable (flav) Applicable hook-up pilers: SL-JPS,		

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	
	Vertical type	I/O mixed module	100	SL-M4P4	4 inputs and 4 outputs	
	>	Output module		SL-MP8	8 outputs	
I/O module				SL-MP16	16 outputs	These are IC type modules which enable external connection of address setting switches and operation indicators.
m 0/I		Input	Internal	SL-M8F	8 inputs	They increase the design flexibility.
	,be	module		SL-M16F	16 inputs	
	Horizontal type	I/O mixed module		HIMMIN	SL-M4P4F	4 inputs and 4 outputs
	운	Output	,	SL-MP8F	8 outputs	
		module		SL-MP16F	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€' mark conform to the CE marking EMC Directive.

OPTIONS

Others

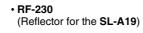
Others					
Designation	Appearance	Model No.		Desc	cription
8-branch connector tap	New	SL-T8PW		to up to 8 thru-bear	n type photoelectric sensor emitters or nectors.
2-pin type snap female connector		SL-CJ12 (White) 10 pcs. per set SL-CJ22 (Black)	Wire dia.: $\phi 0.7$ to $\phi 1$	Conductor cross-section area) 1.2 mm ϕ 0.028 to ϕ 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
Terriale confidencion	(Note)	10 pcs. per set		ductor cross-section area) 1.6 mm ϕ 0.043 to ϕ 0.063 in	SL-CP22.
2-pin type snap		SL-CP12 (White) 10 pcs. per set		Conductor cross-section area) 1.2 mm ϕ 0.028 to ϕ 0.047 in	It can used for cable extension of 2-wire I/O devices by combining with a snap
male connector	(Note)	SL-CP22 (Black) 10 pcs. per set		ductor cross-section area) 1.6 mm ϕ 0.043 to ϕ 0.063 in	female connector SL-CJ12 or SL-CJ22.
		SL-RCM100		D line: White	
		SL-RCM100-PK	Length: 100 m	D line: White with pink stripe	S-LINK / S-LINK V exclusive flat cable
Exclusive flat cable (4-core)		SL-RCM100-GN	328.084 ft	D line: White with green stripe	(4-core) Conductor cross-section area: 0.5 mm ²
		SL-RCM100-GY		D line: White with gray stripe	Outer diameter:
	(Note)	SL-RCM200	Length: 200 m 65	56.168 ft, D line: White	
Exclusive cabtyre	X /	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 65	56.168 ft	Conductor cross-section area: 0.5 mm ² Outer diameter: ϕ 7.4 mm ϕ 0.291 in (Hook-up connector cannot be used)
Exclusive pliers		SL-JPS	Hook-up connect	tor (SL-J □) can be con	nected in one grip.
Exclusive ratchet pliers		SL-JPD	Because of the connected in one		ook-up connector (SL-J □) can be simply
SL-CP3 exclusive pliers		SL-JPE	4-pin type snap r	male connector (SL-CP	3) can be connected in one grip.
Male / female connector exclusive pliers		SL-JPC		nnector (SL-CJ□) and s nd SL-CP11/CP12) can	snap male connector be connected in one grip.
Address label		SL-MA1-SET 4 sheets per set	be confirmed at gray colors, as a	one glance. SL-MA1-S 4-sheet set, and is cor	e S-LINK devices, the set addresses can SET is available in white, pink, green and evenient when used by matching the color ble (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	35 mm 1.378 in v	Mounting bracket enabling the SL-CH (-PN) I/O units to be mounted ont 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		nt the SL-CH □(- PN) ur two M4 pan-head screv	

Note: For UL compatibility, please contact our office.

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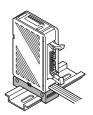
Accessories

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



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

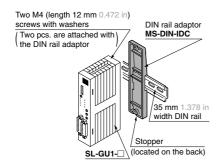




OPTION

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	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	
bracket for SL-N15	MS-NA2-1	(length 18 mm 0.709 in) screws with washers are attached. (Spacers are not attached with MS-NA1-1.)	
Sensor protection bracket for	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



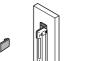
• MS-NX5-3

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

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Sensor mounting bracket for SL-N15 • MS-NA1-1 • MS-NA2-1



M4 screws with washers, nuts and hooks are attached.



Sensor protection bracket for SL-N15

- · MS-NA3
- · MS-NA3-BK



M4 screws with washers and

• MS-RF23

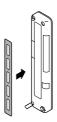
Reflector mounting bracket



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

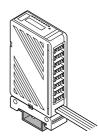
Slit mask for SL-N15

• OS-NA1-5



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

• MS-DIN-3



PRECAUTIONS FOR PROPER USE



- 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