Sensor & Wire-saving Link System

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HUMAN MACHINE INTERFACES

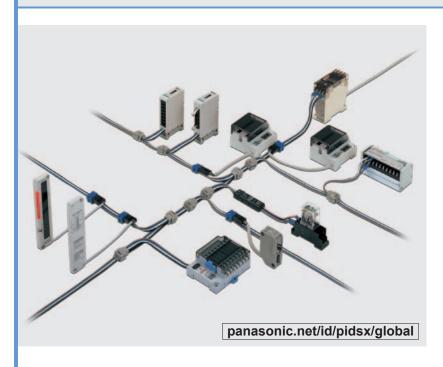
ENERGY CONSUMPTION VISUALIZATION COMPONENTS

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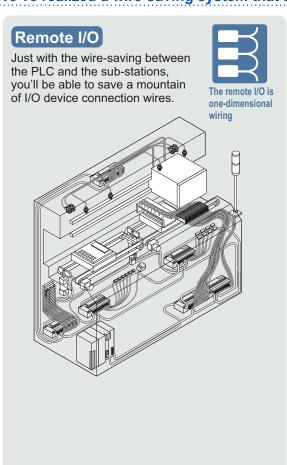
S-LINK

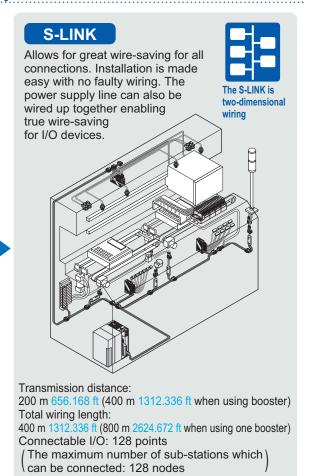


This product is introduced to only limited countries. Please contact our office for details.

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

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





High noise immunity

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

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

Specifies malfunctioning S-LINK I/O devices

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

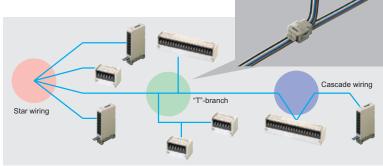


"T"-branch

Address display

Alleviates the burden laid on engineer for designing and wiring

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



Simple and reliable connections

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

SL-J1A

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

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



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

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

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

Connected device extensions

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

	The values in () rep	present cond	uctor cross-section areas.
4-pin type		2-pin type	
SL-CP1 (0.03 SL-CP2 (0.3 SL-CP3 (0.5			
	•		L-CP12 (0.08 to 0.2 mm ²) L-CP22 (0.3 mm ²)
SL-CJ2	'	SL-CJ12 (0.0 SL-CJ22 (0.0	08 to 0.2 mm ²) 3 mm ²)

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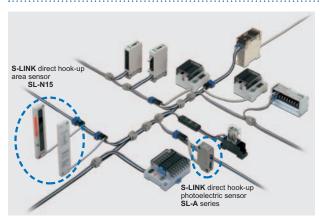
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S-LINK

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

Manifold electromagnetic valve manufactured by Koganei Corp.

by SM

Manifold electromagnetic valve manufactured by SMC Pneumatics

by CKD Corp.

electromagnetic

valve manufactured

Manifold

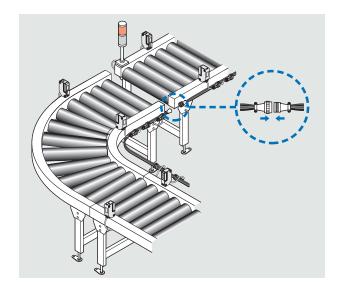
Component indicator lamp manufactured by Yazaki Industrial Chemical Co., Ltd.



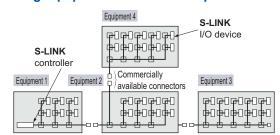
Mid-system main / branch cable installation and removal possible

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

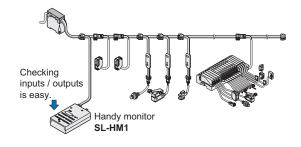
In addition, when assembling the equipment, the **S-LINK** can work even disconnected from the PLC enabling software (PLC programming) and hardware (machine assembly, I/O check) work to be done concurrently, which results in quick delivery time. With the handy monitor, I/O devices can be checked for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



Dividing equipment into subunits possible



Individual equipment subunits can be checked separately

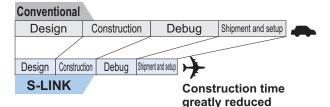


Total cost reductions and great savings in setup time

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

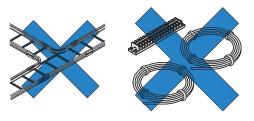
The S-LINK system:

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



Auxiliary materials reduced

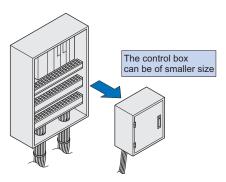
Great reductions in auxiliary materials such as cable racks, cable ducts, intermediate terminal blocks, and cables. This system also contributes greatly to the reduction waste caused by cutting cable ends.



Space-saving

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

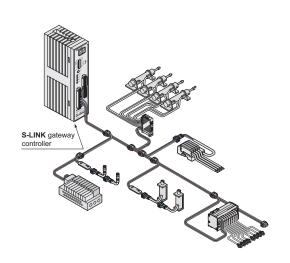
This will finally let you put all that wasted space to good use.



Upper-level network connection possible

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





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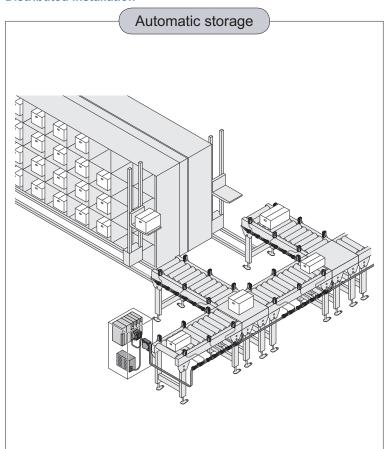
UV CURING SYSTEMS

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S-LINK

APPLICATIONS

Distributed installation



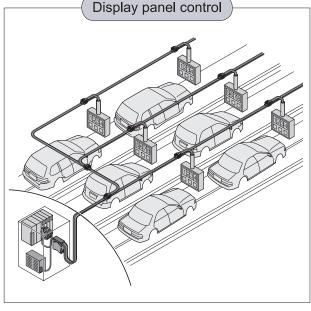
Because conveyors have multiple I/O device points, wire-saving and construction efficiency are the key to lowering overall costs. Other systems may be wire-saving but if they can't prove useful for long-distance distribution lines and be reliable, then they are useless. On this point, the **S-LINK**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

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



Parking garage Personal computer Sensor Sensor

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



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

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

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

LASER SENSORS

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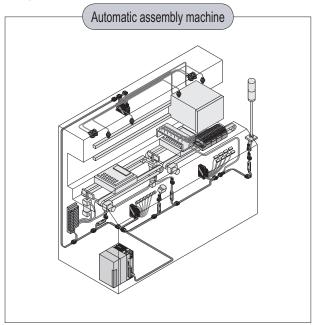
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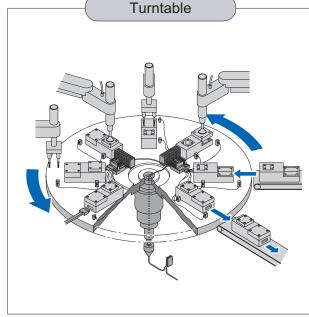
APPLICATIONS

Integrated installation



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

 $\mbox{\bf S-LINK}$ is a wire-saving system optimal for the automatic assembly machinery.



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

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

SIMPLE WIRE-SAVING UNITS

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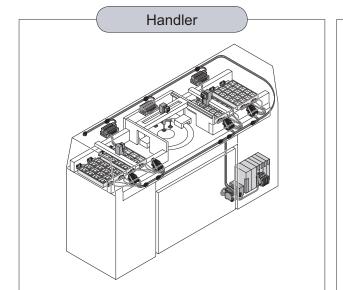
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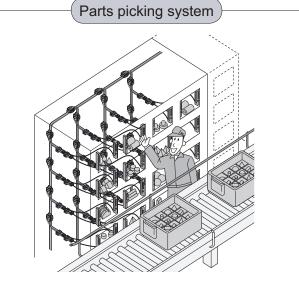
For Large Scale Systems For Medium

S-LINK



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

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



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

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

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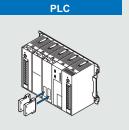
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SYSTEM LAYOUT

Upper-level control devices



S-LINK control components

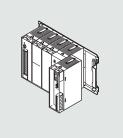


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S-LINK controller SL-CU1A



PLC (Direct connection to PLC bus)



S-LINK controller for direct connection to PLC bus / S-LINK control boards FP0 S-LINK FPΣ



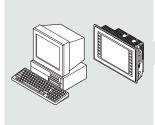
FP2SH S-LINK unit FP2-SL2

For Mitsubishi Electric Corp. PLC MELSEC-Q series SL-MEL-Q

For Yokogawa Electric Corp. PLC FA-M3 series SL-FAM3







For ISA bus SL-PCAT



For CC-Link

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



For Large Scale Systems For Medium







SYSTEM LAYOUT

S-LINK I/O devices





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Items offered by partner makers

Manifold electromagnetic valve manufactured by Koganei Corp.



Manifold electromagnetic valve manufactured by SMC Pneumatics



Manifold electromagnetic valve manufactured by CKD Corp.



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



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



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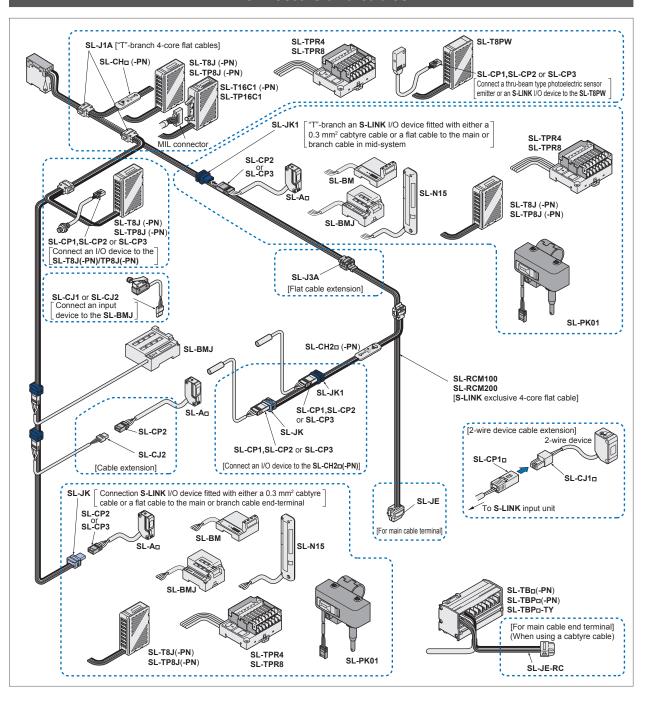
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SYSTEM LAYOUT

Connectors and cables



Other S-LINK devices

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





Handy monitor SL-HM1



S-LINK control units

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

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

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

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ORDER GUIDE

Products for open network

Designation	Appearance (Note)	Model No.	Description
S-LINK gateway controller for CC-Link	(E	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	(E	SL-GU1-D	S-LINK gateway controller for connection to open network DeviceNet. * The SL-GU1-D will be discontinued at the end of September, 2015.

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

PLC related units

	Dooignotic	A no constitution		(Note 1)	Mode	l No.		Description
	Designation	ווע	Appearance	(Note 1)	For input F			Description
	Multi-core cable PLC I/O unit	NPN type			SL-S	SL-P	on terminal type Interfaces I/O da	-core cable PLC I/O unit for connecting the screw- PLC with the S-LINK system. tat between the S-LINK controller and PLC. O data conversion circuit for serial to parallel or
		PNP type	Multi-core cable	Cable		SL-PP		
	Multi-core cable		Multi-core cable PLC I/O unit	Multi-core cable		000F	Length: 2 m 6.562 ft	The multi-core cable attached with an MIL connector on one end links the multi-core cable PLC I/O unit to a screw-on terminal type PLC I/O module.

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

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

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

PLC related units

Decignation	A	(Note 1)	Mode	el No.		Desci	ription	
Designation	Appearance	(Note 1)	For input	For output	Manufacturer PLC PLC input module (Note 4) PLC output module (Note 4)			
				-	Panasonic	FPΣ	FPG-XY64D2T	FPG-XY64D2
			SL-S1	SL-P1	Industrial Devices	(Excluding the FPG-C32T)	(X side)	(Y side)
	1		3L-31	SL-F1	SUNX Co., Ltd.	FP2	FP2-X32D2	FP2-Y32T
	1				Toshiba Machine Co., Ltd.	TC200	TC64DI	TC64DON
						NS series	NS-X64-1 NS-XY64-1 (X side)	NS-Y64-T1 NS-XY64-1 (Y sic
						F55	NV1X3204 NV1X3204-W NV1X3206	NV1Y32T05P
			SL-S2	SL-P2	Fuji Electric FA Components & Systems Co., Ltd.	F70	NC1X3204 NC1X3204-3 NC1X3206 NC1X6404 NC1X6406 NC1W6406T (X side)	NC1Y32T05P NC1Y64T05P1 NC1W6406T (Y sid
		Fujitsu Component connector specs.				F80H, F120H F120S F140S F15XS	FTU125A FTU126A FTU127C FTU612A (X side)	FTU222A FTU227C FTU612A (Y sid
		specs.			Fuji Electric FA Components & Systems Co., Ltd.	SX series SPH		NP1Y32T09P NP1Y64T09P
			SL-S3	SL-P3				A1SY41 A1SY42 A1SH42 (Y side
		PLC input connectors PLC output connectors	3L-33	SL-P3	Mitsubishi Electric Corp.	AnN, AnA AnU, QnA QnAs	AX42 AH42 (X side)	AY42 AH42 (Y side
		(same shape) (Note 2) The listed PLC I/O modules (NPN I/O type) allow the mating PLC I/O connector to be plugged on them for signal transmission between the PLC and the S-LINK controller. The PLC I/O connector converts I/O data from serial to parallel, and vice versa.				Q	QX41, QX42	QY41P, QY42
PLC input connector	PLC input connectors PLC output connectors (Note 3)					A2CJ	AJ35TC1-32D	AJ35TC1-32
LC output	(Note 3) Max. four PLC I/O connectors can be cascaded with one S-LINK controller.		SL-S4	SL-P4	Sharp Manufacturing	JW20, JW20H JW30H	JW-234N JW-264N	JW-232S JW-262S
connector					Systems Corp.	JW50H	JW-34NC JW-64NC	JW-32SC JW-62SC
					Omron Corp.	CJ1	CJ1W-ID231 CJ1W-ID261 CJ1W-MD261 (X side)	
						CS1	CS1W-ID231 CS1W-ID261 CS1W-MD261 (X side)	CS1W-OD231 CS1W-OD261 CS1W-MD261 (Y sid
			SL-S5			CVM1, CV C500 C1000H C2000H	C500-ID219	C500-OD213
		\ I/O points: 32 points \		SL-P5		C200H series	C200H-ID216 C200H-ID217	C200H-OD21 C200H-OD21
	Cascade cable	\ per connector /				CQM1	CQM1-ID213	CQM1-OD21
					Hitachi Ltd.	EH-150	EH-XD32	EH-YT32
							XD64-6N	YD64-1A
					Yokogawa Electric Corp.	FA500	WD64-6N (X side)	WD64-6N (Y sid
					Electric Corp.	FA-M3	F3XD32-3N F3XD64-3N	F3YD32-1A F3YD64-1A
					Toshiba Corp.	T3	DI-335 DI-335H	DO-335
					Yasukawa Electric Corp.	GL20, GL40S GL60S, GL60H GL70H		B2604
			SL-S6	SL-P6	Hitachi Ltd.	H series	XDC24D2H	YTR24DH
			SL-S7		Yasukawa Electric Corp.	GL20, GL40S GL60S, GL60H GL70H	B2605	
		o o	SL-E		It must be conn	ected at the end	of the last PLC I	/O connector.
End connector			SL-F70		Length: 70 mm 2.756 in			
		~	SL-F7	0	Length: 70 mm 2.756 in Length: 150 mm 5.906 in		Himle DI Oine 1/DI O	
onnector	_		SL-F7 SL-F1				It links PLC inpu	ut / PLC outpu
connector Cascade		Tawar Tawar		50		m 5.906 in	It links PLC input	ut / PLC outpu
connector Cascade			SL-F1	50 250	Length: 150 m	m 5.906 in m 9.843 in		ut / PLC outpu
			SL-F1 SL-F2 SL-F1	250 1000	Length: 150 m Length: 250 m Length: 1,000	m 5.906 in m 9.843 in mm 39.370 in		ut / PLC outpu
Cascade cable			SL-F1 SL-F2 SL-F1 SL-C1	150 250 1000 1000	Length: 150 m Length: 250 m Length: 1,000 Length: 1 m 3	m 5.906 in m 9.843 in mm 39.370 in 281 ft	connectors. It links the S-LII	NK controller
connector Cascade			SL-F1 SL-F2 SL-F1	250 250 1000 1000 2000	Length: 150 m Length: 250 m Length: 1,000	m 5.906 in m 9.843 in mm 39.370 in 281 ft 562 ft	connectors.	NK controller

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

However, note that for the PLC I/O connectors to conform to CE marking EMC Directive, it is necessary to use cascade cable SL-F70,

SL-F150 or SL-F250 and control cable SL-C2000F.

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

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S-LINK I/O devices

D	esignation	Appearance (Note)	Model No.	Description		
1 c	hannel		SL-CH1	NPN type	It can be used as either an input unit or an output unit by switch selection.	
	unit	(€	SL-CH1-PN	PNP type	 Signals, such as from the sensor and limit switch, can be transmitted by the signal transmission line. These signals from the signal transmission line can turn ON / OFF the transistor output. 	
2 c	hannel		SL-CH21	NPN type	1 input and 1 output are equipped. 1 input device and 1 output	
I/O	mixed unit	CE	SL-CH21-PN	PNP type	device are connectable.	
	hannel		SL-CH20	NPN type	2 input devices are connectable.	
inp	ut unit	CE	SL-CH20-PN	PNP type	2 input devices are connectable.	
	hannel		SL-CH22	NPN type	2 output devices are connectable.	
out	put unit	CE	SL-CH22-PN	PNP type	2 output devices are conficulation	
	8 channel snap-	ector	SL-T8J	8 NPN inputs		
	connector input unit		SL-T8J-PN	8 PNP inputs	8 input or 8 output devices are connectable with snap male connectors.	
unit	8 channel snap-		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.	
or 1/0	connector output unit	(€	SL-TP8J-PN	8 PNP outputs	uaromission inte.	
Connector I/O unit	16 channel MIL		SL-T16C1	16 NPN inputs		
So	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. The output unit is incorporated with an output single held function.	
	16 channel MIL		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.	
	connector output unit	(€	SL-TP16C1-PN	16 PNP outputs	adismosion inc.	
unit	8 channel snap-		SL-T8E	8 NPN inputs	Up to 8 input or output devices can be easily connected via e-CON.	
or 1/0	connector input unit		SL-T8E-PN	8 PNP inputs	Also, when there is an abnormality in the signal communication line, the output status just before the abnormality can be preserved since	
Connector I/O unit	8 channel snap-		SL-TP8E	8 NPN outputs	the output unit is equipped with an output hold function. *For the connector, please separately purchase a commercial	
S	connector output unit	€	SL-TP8E-PN	8 PNP outputs	product which supports e-CON standards.	

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

S-LINK I/O devices

D	esignation	Appearance (Note 1)	Model No.	Description			
			SL-TB4	4 NPN inputs			
					SL-TB4-PN	4 PNP inputs	
	Input		SL-TB8	8 NPN inputs	They are screw-on terminal units to which 4, 8 or 16 input devices		
	terminal		SL-TB8-PN	8 PNP inputs	are connectable. Since power supply terminals have been provided for every two input channel, neat wiring is possible.		
			SL-TB16	16 NPN inputs			
nit		11111	SL-TB16-PN	16 PNP inputs			
ninal u		C E	SL-TBP4	4 NPN outputs			
I/O arrayed terminal unit				SL-TBP4-PN	4 PNP outputs		
array	Output			manne	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 an output
2	terminal		SL-TBP8-PN	8 PNP outputs	signal hold function, which retains the output state just prior to an error on the signal transmission line.		
			SL-TBP16	16 NPN outputs			
			SL-TBP16-PN	16 PNP outputs			
			SL-TBP4-TY	4 NPN outputs	In the case that a malfunction occurs to the output device that is		
	Separate load power supply type		SL-TBP8-TY	8 NPN outputs	being connected, they enable forced turning OFF of the output device connected to the output terminal without halting the complete S-LINK system, by switching off the load power		
	очьы турс		SL-TBP16-TY	16 NPN outputs	supply.		
Relay output terminal unit	4 relay output		SL-TPR4	4 outputs (Note 2)	They are terminal units to which 4 or 8 output devices can be connected by slim socket relays that can be easily replaced.		
Relay output	8 relay output		SL-TPR8	8 outputs (Note 2)	They are incorporated with an output signal hold function which retains the output state just prior to an error on the signal transmission line.		

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

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

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D	esig	nation	Appearance (Note)	Model No.		Description		
	ector	Sensor main block	Test	SL-BMJ	It allows connection of various kinds of input devices, such as, photoelectric sensors, inductive proximity sensors, limit switches, and push buttons with the snap female connectors. Changes signals from input devices into serial signals and transmits them to the signal transmission line. One SL-BMJ can be extended by one SL-BXJ or two SL-BXS , up to 16 input points.			
	Snap-connector				It can generate the ORed self-diagent in this case, the first channel gets	gnosis output of all the connected devices.		
Sensor block	Snap	Extension block		SL-BXJ	It can follow either main block, and	allows connection of 8 input devices.		
Senso	ınit	Sensor main block		SL-BM	into serial signals and transmits the	s of plug-in units and changes signals from plug-in units m to the signal transmission line. ree SL-BXs or one SL-BX plus one SL-BXJ, up to 16		
	For plug-in unit	DIOCK	CE		It can generate the ORed self-diag case, the first channel gets occupi	gnosis output of all connected units. In this) led.		
	For p	Extension block	3	SL-BX	It can follow either main block, and	allows connection of four plug-in units.		
Plug-in unit	sepa	olifier- arated toelectric sor	(6	SU-7J	Its thickness is merely 10 mm 0.394 kinds of sensor heads are suitable (For details, refer to the SU-7/SH se			
-Blug-	Inpi	ut ninal unit	(€	SL-TJ1	It allows connection of 1 No. of various kinds of input devices, such as, a photoelectric sensor, an inductive proximity sensor or a limit switch.			
			Retroreflective type with polarizing filters	SL-A11	Thru-beam type 10 m 32.808 ft			
	INK k-up	direct		SL-A13	Thru-beam type 30 m 98.425 ft	These can be hooked up to the S-LINK cable, at any		
	toele	ectric		SL-A19	Retroreflective type with polarizing filters 0.1 to 5 m 0.328 to 16.404 ft	place, without any interface.		
			Thru-beam type Diffuse reflective type	SL-A12	Diffuse reflective type 700 mm 27.559 in			
hoc	S-LINK direct hook-up picking sensor		(E	SL-N15	Sensing range: 0.2 to 3 m 0.656 to 9.843 ft 0.05 to 1 m 0.164 to 3.281 ft when the switch is set to SHORT Beam pitch: 25 mm 0.984 in Sensing height: 100 mm 3.937 in Sensing object: ø35 mm ø1.378 in or more opaque object	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.		
	Picking switch		s with " (E" mark conform t	SL-PK01	allows it to be installed on small-siz with integrated connector and magi installation and provide freedom in and vertically). Up to 64 units can b	on pipes. Its compact size (just 90 mm 3.543 in wide) ed shelving used with compact parts, while its cable netic (Hall element) contactless switch simplify terms of switch operation (back and forth, left and right, e connected to a single S-LINK control unit.		

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

Connectors

Designation	Appearance	Model No.	Description		
Hook-up connector	(Note)	SL-J1A 10 pcs. per set	It creates a "T"-branch connection between two S-LINK exclusive flat cables (4-core). For 0.5 mm² flat cable to 0.5 mm² flat cable connection (Gray) Applicable hook-up pliers: SL-JPS , SL-JPD		
Cable extension hook-up connector	(Note)	SL-J3A 10 pcs. per set	It can extend the S-LINK exclusive For 0.5 mm² flat cable to 0.5 mm² flat Applicable hook-up pliers: SL-JPS ,	at cable connection (Black)	
End hook-up connector	(Note)	SL-JE 5 pcs. per set	It must be connected at the end of For 0.5 mm² flat cable (Gray) Applicable hook-up pliers: SL-JPS ,		
Cable attached end connector		SL-JE-RC 1 pc.	When cabtyre cable is used as the cable.	main cable, it must be connected at the end of the main	
Cable end socket- branch hook-up connector	(Note)	SL-JK 10 pcs. per set	It enables one I/O device to be con (4-core) end with the snap male con Applicable hook-up pliers: SL-JPS,		
"T"-branch hook-up connector		SL-JK1 10 pcs. per set	It enables one I/O device to be branched off in the middle of the S-LINK exclusive 0.5 mm ² flat cable (4-core) with the snap male connector (SL-CP _□). (Blue) Applicable hook-up pliers: SL-JPS , SL-JPD		
4-pin type snap	(Note)	SL-CJ1 (White) 10 pcs. per set	For 0.08 to 0.2 mm ² (Conductor cross-section area) Wire dia.: ø0.7 to ø1.2 mm ø0.028 to ø0.047 in	This snap female connector is used for plugging into the socket of SL-BMJ or SL-BXJ to connect an input	
female connector	(Note)	SL-CJ2 (Black) 10 pcs. per set	For 0.3 mm² (Conductor cross-section area) Wire dia.: ø1.1 to ø1.6 mm ø0.043 to ø 0.063 in	device, or into the snap male connector SL-CP1 or SL-CP2. Applicable hook-up pliers: SL-JPC	
	(Note)	SL-CP1 (White) 10 pcs. per set	For 0.08 to 0.2 mm ² (Conductor cross-section area) Wire dia.: ø0.7 to ø1.2 mm ø0.028 to ø0.047 in	This snap male connector is used for connecting	
4-pin type snap male connector	(Note)	SL-CP2 (Black) 10 pcs. per set	For 0.3 mm ² (Conductor cross-section area) Wire dia.: ø1.1 to ø1.6 mm ø0.043 to ø 0.063 in	S-LINK I/O devices to SL-T8J(-PN) and SL-TP8J(-PN) 8-channel snap-connector I/O units as well as to SL-JK and SL-JK1 hook-up connectors. Applicable hook-up pliers: SL-JPC (for the SL-CP1 and SL-CP2)	
	(Note)	SL-CP3 (Greenish blue) 10 pcs. per set	For 0.5 mm ² (Conductor cross-section area) Wire dia.: ø1.7 to ø2.5 mm ø0.067 to ø0.098 in	SL-JPE (for the SL-CP3)	

Note: For UL compatibility, please contact our office.

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Basic units

D	Designation Appearance Model		Model No.	Description			
		Input		SL-M8	8 inputs		
		module		SL-M16	16 inputs		
	Vertical type	I/O mixed module	200	SL-M4P4	4 inputs and 4 outputs		
		Output	Output SL-MP8	The Part of the Pa	SL-MP8	8 outputs	
I/O module	modulo		SL-MP16	16 outputs	These are IC type modules which enable external connection of		
m 0/I		Input		SL-M8F	8 inputs	address setting switches and operation indicators. They increase the design flexibility.	
	ype	module		SL-M16F	16 inputs		
	Horizon and the first state of t	In the second second	SL-M4P4F	4 inputs and 4 outputs			
		Output	"m _m	SL-MP8F	8 outputs		
				SL-MP16F	16 outputs		

Optional units

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

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

Others

Others		Г	I	
Designation	Appearance	Model No.		Description
8-branch connector tap		SL-T8PW	Connects easily to up to 8 thru-bear I/O devices with snap male connect	m type photoelectric sensor emitters or S-LINK tors.
2-pin type snap female connector	(Note)	SL-CJ12 (White) 10 pcs. per set SL-CJ22 (Black)	For 0.08 to 0.2 mm² (Conductor cross-section area) Wire dia.: Ø0.7 to Ø1.2 mm Ø0.028 to Ø0.047 in For 0.3 mm² (Conductor cross-section area) Wire dia.: Ø1.1 to Ø1.6 mm	It can be used for cable extension of 2-wire I/O devices by combining with a 2-pin type snap male connector SL-CP=2. Applicable hook-up pliers: SL-JPC
2-pin type snap male connector	(Note)	SL-CP12 (White) 10 pcs. per set	© 0.043 to Ø 0.063 in For 0.08 to 0.2 mm² (Conductor cross-section area) Wire dia.: Ø0.7 to Ø1.2 mm Ø0.028 to Ø0.047 in	It can be used for cable extension of 2-wire I/O devices by combining with a 2-pin type snap female connector SL-CJ _2. Applicable hook-up pliers: SL-JPC
	(Note)	SL-CP22 (Black) 10 pcs. per set	For 0.3 mm² (Conductor cross-section area) Wire dia.: Ø1.1 to Ø1.6 mm Ø0.043 to Ø 0.063 in	
Exclusive flat cable (4-core)	16 2	SL-RCM100-PK SL-RCM100-PK SL-RCM100-GN SL-RCM100-GY	Length: 100 m 328.084 ft D line: White with pink stripe ② D line: White with green stripe ③ D line: White with gray stripe ④	S-LINK / S-LINK V exclusive flat cable (4-core) Conductor cross-section area: 0.5 mm ² Outer diameter: ø2.5 mm ø0.098 in × 4
F 1 2 2	(Note)	SL-RCM200 SL-CBM100	Length: 200 m 656.168 ft, D line: White (5) Length: 100 m 328.084ft	S-LINK / S-LINK V exclusive cabtyre cable (4-core)
Exclusive cabtyre cable (4-core)		SL-CBM200	Length: 200 m 656.168 ft	Conductor cross-section area: 0.5 mm ² Outer diameter: Ø7.4 mm Ø0.291 in (Hook-up connector cannot be used)
Exclusive pliers		SL-JPS	Hook-up connector (SL-J □) can be	
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-CJ1/CJ2, SL-CJ11/CJ12) and snap male connector (SL-CP1/CP2, SL-CP11/CP12) can be connected in one grip.	
Address label		SL-MA1-SET 4 sheets. per set	oormined at one glanes. SE mixt SET is available in write, plink, green and gray colors, as	
DIN rail mounting bracket for SL-CH		MS-CH×10 10 pcs. per set	Mounting bracket enabling the SL-CH □(-PN) I/O units to be mounted onto a 35 mm 1.378 in width DIN rail. They can also be affixed with screws. (When affixing with screws, arrange two M4 pan-head screws separately.)	
I/O unit holder for SL-CH □		MS-SLH 5 pcs. per set	It is used to mount the SL-CH□(-PN) unit. (Please arrange two M4 pan-head screws separately.)	

Note: For UL compatibility, please contact our office.

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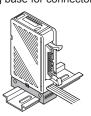
Protective cover for the SL-CU1A, SL-BS1A or SL-CU1-485



• RF-230 (Reflector for the SL-A19)



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

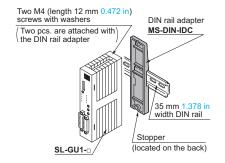


OPTIONS

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

DIN rail adapter

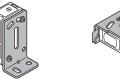
• MS-DIN-IDC



Sensor mounting bracket for SL-An

• MS-NX5-1

• MS-NX5-2



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



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

• MS-NX5-3



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

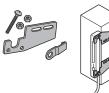
Sensor mounting bracket for SL-N15

• MS-NA1-1



M4 screws with washers, nuts and hooks are attached.

• MS-NA2-1



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

Sensor protection bracket for SL-N15

- MS-NA3
- MS-NA3-BK





M4 screws with washers and nuts

Reflector mounting bracket

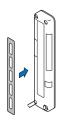
• MS-RF23



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

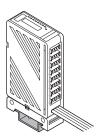
Slit mask for SL-N15

• OS-NA1-5



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

• MS-DIN-3



PRECAUTIONS FOR PROPER USE

Never use this product in a device for personal protection.



- · In case of using sensing devices for personnel protection, use products which meet laws and standards, such as OSHA, ANSI or IEC etc., for personnel protection applicable in each region or country.
- · Handle safety related or emergency stop signals without passing them through the S-LINK system due to 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 S-LINK are not mutually interchangeable with the flexible wire-saving system S-LINK V and cannot be mixed or matched. Please exercise caution.

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

Information about S-LINK partner makers

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

[Controllers suitable for S-LINK]

JTEKT Corp.



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

Component indicator lamp Yazaki Industrial Chemical Co., Ltd.



Manifold electromagnetic valves Koganei Corp.



Manifold electromagnetic valves



Manifold electromagnetic valves

CKD Corp.



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

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



S-LINK Design Manual

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

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



S-LINK Construction Manual

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

FIBER SENSORS

MICRO PHOTO-ELECTRIC SENSORS

AREA SENSORS

LIGHT CURTAINS / SAFETY COMPONENTS

PRESSURE FLOW SENSORS

INDUCTIVE PROXIMITY SENSORS

PARTICULAR USE SENSORS

SENSOR OPTIONS

MEASURE MENT SENSORS

LASER MARKERS

PLC

MACHINE INTERFACES

FA COMPONENTS VISION SYSTEMS