

FIBER  
SENSORSLASER  
SENSORSPHOTOELECTRIC  
SENSORSMICRO  
PHOTOELECTRIC  
SENSORSAREA  
SENSORSLIGHT  
CURTAINSPRESSURE/  
FLOW  
SENSORSINDUCTIVE  
PROXIMITY  
SENSORSPARTICULAR  
USE SENSORSSENSOR  
OPTIONSSIMPLE  
WIRE-  
SAVING  
UNITSWIRE-  
SAVING  
SYSTEMSMEASUREMENT  
SENSORSSTATIC CONTROL  
DEVICES

ENDOSCOPE

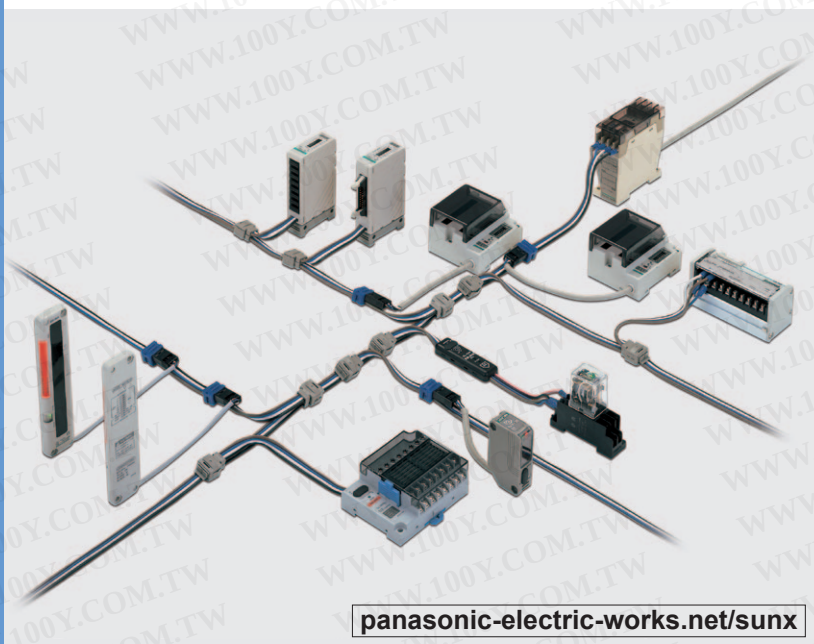
LASER  
MARKERSPLC /  
TERMINALSHUMAN MACHINE  
INTERFACESENERGY CONSUMPTION  
VISUALIZATION  
COMPONENTS

FA COMPONENTS

MACHINE VISION  
SYSTEMSUV CURING  
SYSTEMSFor Large  
Scale Systems  
For Medium  
Scale Systems

S-LINK

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


[panasonic-electric-works.net/sunx](http://panasonic-electric-works.net/sunx)

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**

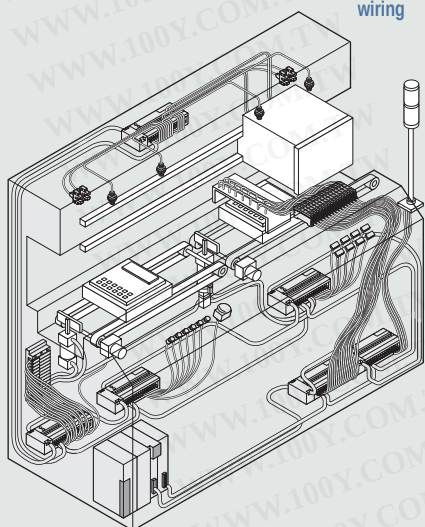
**We've realized a wire-saving system that's easy to use**

### Remote I/O

Just with the wire-saving between the PLC and the sub-stations, you'll be able to save a mountain of I/O device connection wires.



The remote I/O is one-dimensional wiring

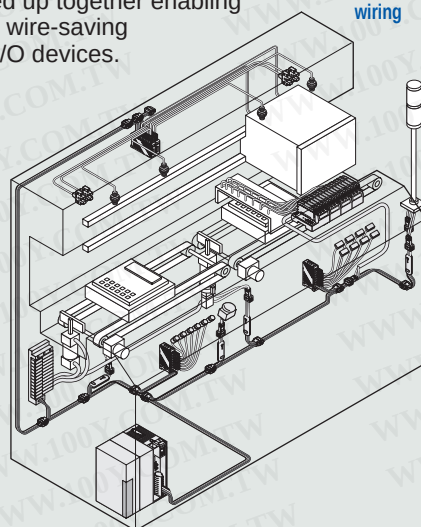


### S-LINK

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



The S-LINK is two-dimensional wiring



Transmission distance:  
 200 m **656.168 ft** (400 m **1312.336 ft** when using booster)  
 Total wiring length:  
 400 m **1312.336 ft** (800 m **2624.672 ft** when using one booster)  
 Connectable I/O: 128 points  
 (The maximum number of sub-stations which can be connected: 128 nodes)

## High noise immunity

Large voltage amplitude (24 V) and wide pulse width (35  $\mu$ s) 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.

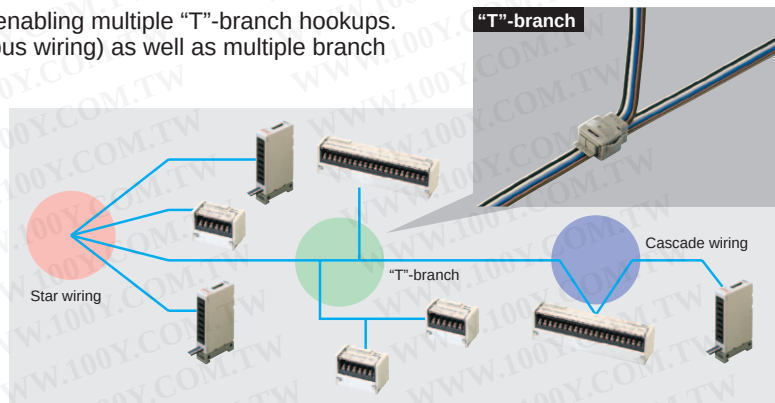
## Specifies malfunctioning S-LINK I/O devices

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.



## Alleviates the burden laid on engineer for designing and wiring

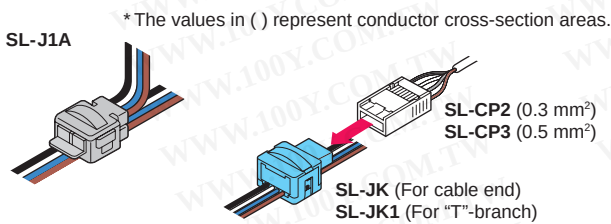
Labor-saving hook-up connectors are used enabling multiple "T"-branch hookups. It goes without saying that cascade wiring (bus wiring) as well as multiple branch wiring (star wiring) is also possible.



## 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.

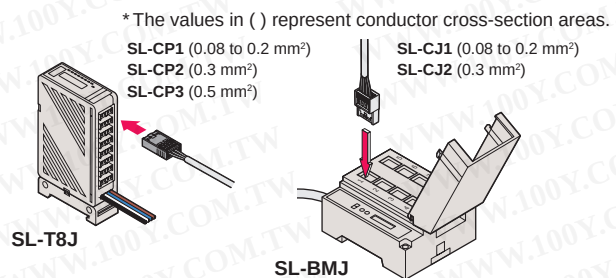
Branch cable to main cable connection and S-LINK I/O device to main cable connection



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

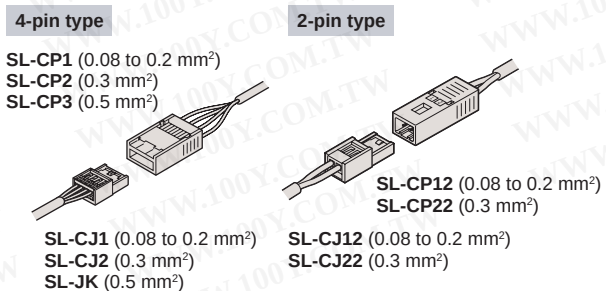


Connection from various connected units to S-LINK I/O devices



Connected device extensions

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



|                                             |
|---------------------------------------------|
| FIBER SENSORS                               |
| LASER SENSORS                               |
| PHOTOELECTRIC SENSORS                       |
| MICRO PHOTOELECTRIC SENSORS                 |
| AREA SENSORS                                |
| LIGHT CURTAINS                              |
| PRESSURE / FLOW SENSORS                     |
| INDUCTIVE PROXIMITY SENSORS                 |
| PARTICULAR USE SENSORS                      |
| SENSOR OPTIONS                              |
| SIMPLE WIRE-SAVING UNITS                    |
| WIRE-SAVING SYSTEMS                         |
| MEASUREMENT SENSORS                         |
| STATIC CONTROL DEVICES                      |
| ENDOSCOPE                                   |
| LASER MARKERS                               |
| PLC / TERMINALS                             |
| HUMAN MACHINE INTERFACES                    |
| ENERGY CONSUMPTION VISUALIZATION COMPONENTS |
| FA COMPONENTS                               |
| MACHINE VISION SYSTEMS                      |
| UV CURING SYSTEMS                           |

For Large Scale Systems  
For Medium Scale Systems

**S-LINK**

FIBER  
SENSORSLASER  
SENSORSPHOTOELECTRIC  
SENSORSMICRO  
PHOTOELECTRIC  
SENSORSAREA  
SENSORSLIGHT  
CURTAINSPRESSURE /  
FLOW  
SENSORSINDUCTIVE  
PROXIMITY  
SENSORSPARTICULAR  
USE SENSORSSENSOR  
OPTIONSSIMPLE  
WIRE- SAVING  
UNITSWIRE- SAVING  
SYSTEMSMEASUREMENT  
SENSORSSTATIC CONTROL  
DEVICES

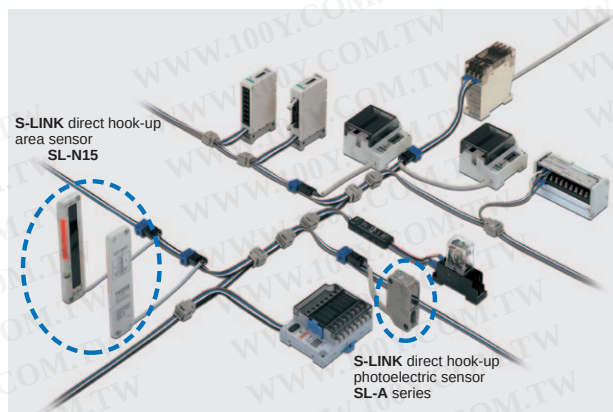
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For Medium  
Scale Systems**S-LINK**

## 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.



Manifold electromagnetic valve manufactured by SMC Pneumatics



Manifold electromagnetic valve manufactured by CKD Corp.



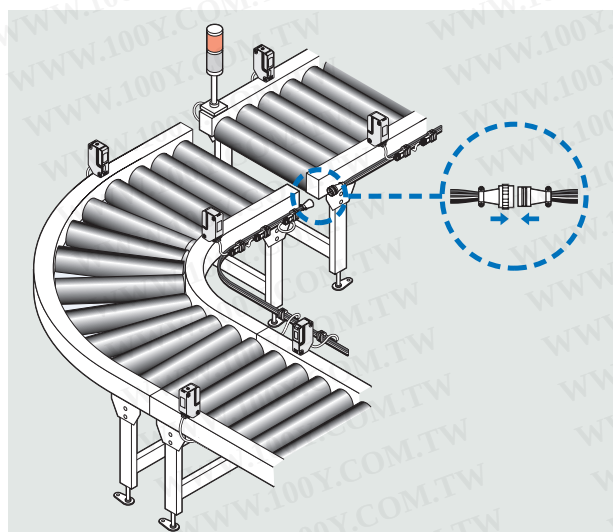
Component indicator lamp manufactured by Yazaki Industrial Chemical Co., Ltd.



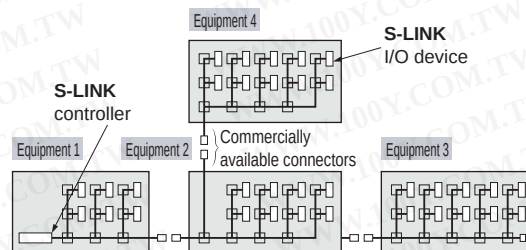
## Mid-system main / branch cable installation and removal possible

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

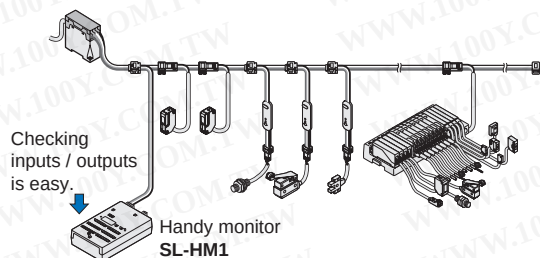
In addition, when assembling the equipment, the **S-LINK** can work even disconnected from the PLC enabling software (PLC programming) and hardware (machine assembly, I/O check) work to be done concurrently, which results in quick delivery time. With the handy monitor, I/O devices can be checked for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



## Dividing equipment into subunits possible



## Individual equipment subunits can be checked separately

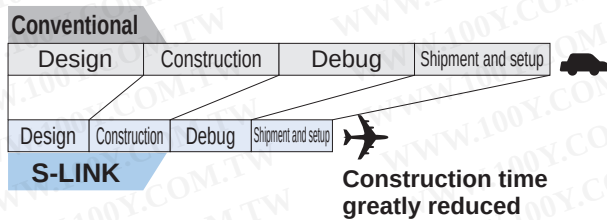


### Total cost reductions and great savings in setup time

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

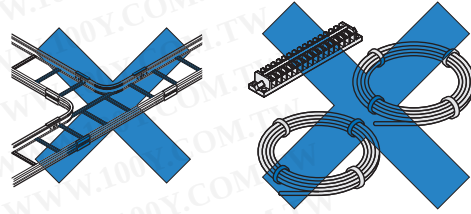
The **S-LINK** system:

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



### Auxiliary materials reduced

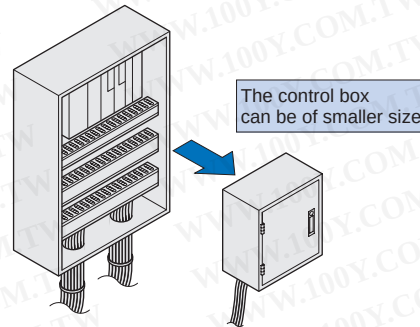
Great reductions in auxiliary materials such as cable racks, cable ducts, intermediate terminal blocks, and cables. This system also contributes greatly to the reduction waste caused by cutting cable ends.



### Space-saving

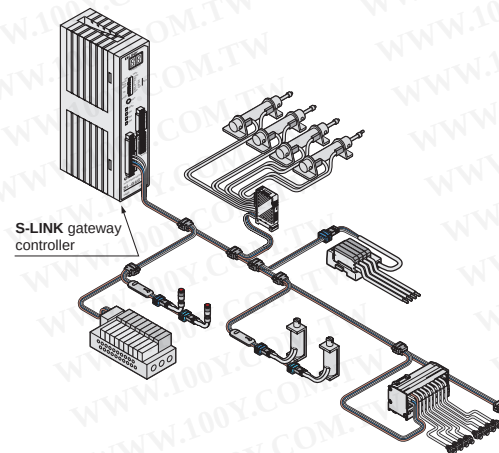
Because of great reductions in the amount of intermediate terminal blocks and cables needed, you can save space and minimize the size of your control board and machines.

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



### Upper-level network connection possible

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

FIBER  
SENSORSLASER  
SENSORSPHOTOELECTRIC  
SENSORSMICRO  
PHOTOELECTRIC  
SENSORSAREA  
SENSORSLIGHT  
CURTAINSPRESSURE /  
FLOW  
SENSORSINDUCTIVE  
PROXIMITY  
SENSORSPARTICULAR  
USE SENSORSSENSOR  
OPTIONSSIMPLE  
WIRE-SAVING  
UNITSWIRE-SAVING  
SYSTEMSMEASUREMENT  
SENSORSSTATIC CONTROL  
DEVICES

ENDOSCOPE

LASER  
MARKERSPLC /  
TERMINALSHUMAN MACHINE  
INTERFACESENERGY CONSUMPTION  
VISUALIZATION  
COMPONENTS

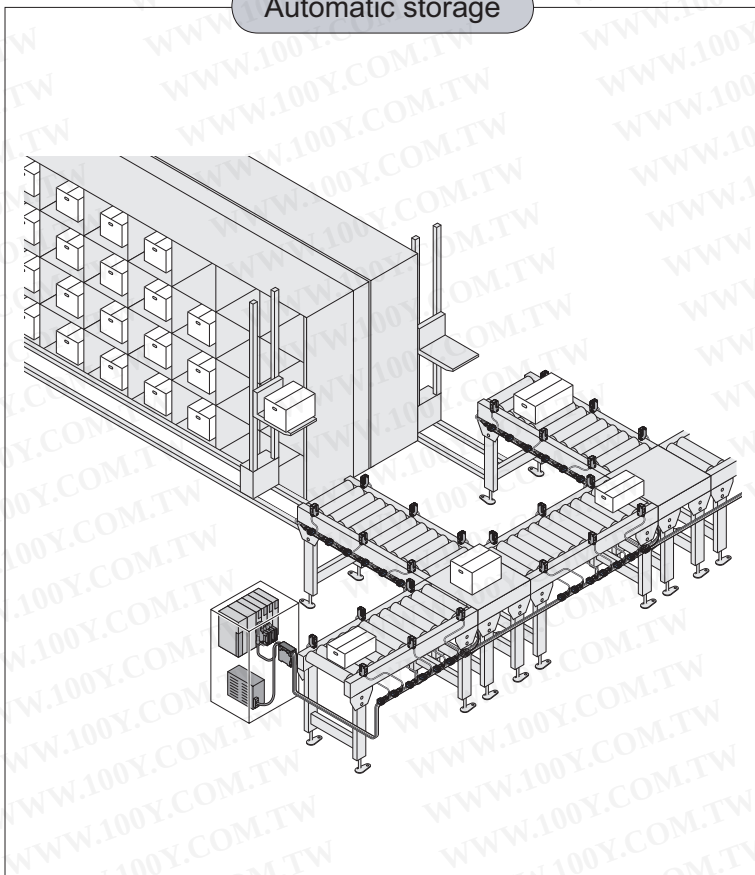
FA COMPONENTS

MACHINE VISION  
SYSTEMSUV CURING  
SYSTEMSFor Large  
Scale Systems  
For Medium  
Scale Systems**S-LINK**

## APPLICATIONS

## Distributed installation

## Automatic storage

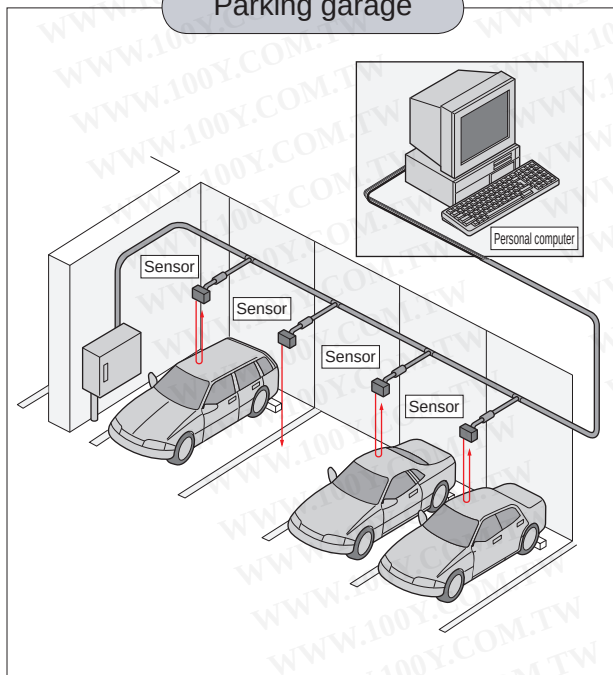


Because conveyors have multiple I/O device points, wire-saving and construction efficiency are the key to lowering overall costs. Other systems may be wire-saving but if they can't prove useful for long-distance distribution lines and be reliable, then they are useless. On this point, the **S-LINK**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

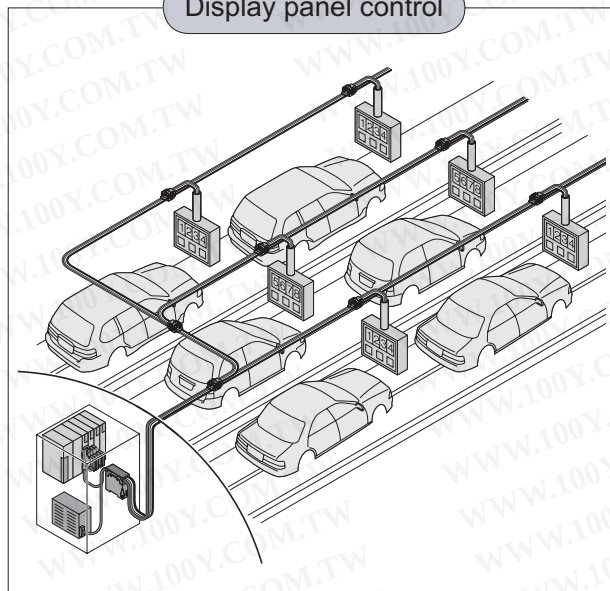


## Parking garage



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 panel control



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.

FIBER SENSORS

LASER SENSORS

PHOTOELECTRIC SENSORS

MICRO PHOTOELECTRIC SENSORS

AREA SENSORS

LIGHT CURTAINS

PRESSURE / FLOW SENSORS

INDUCTIVE PROXIMITY SENSORS

PARTICULAR USE SENSORS

SENSOR OPTIONS

SIMPLE WIRE-SAVING UNITS

WIRE-SAVING SYSTEMS

MEASUREMENT SENSORS

STATIC CONTROL DEVICES

ENDOSCOPE

LASER MARKERS

PLC / TERMINALS

HUMAN MACHINE INTERFACES

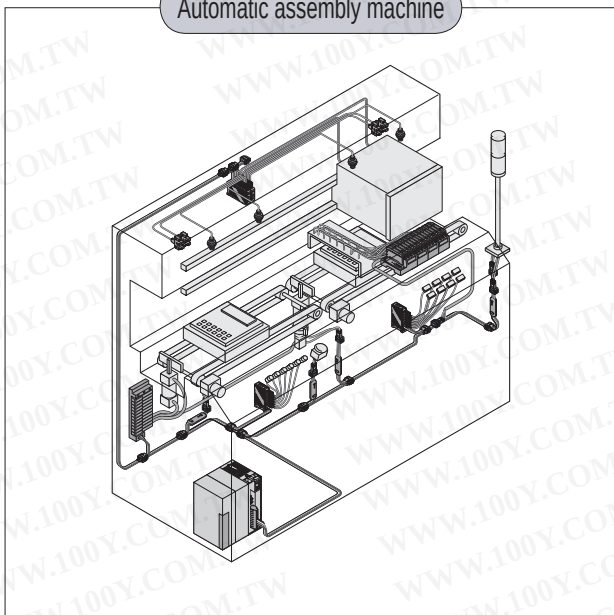
ENERGY CONSUMPTION VISUALIZATION COMPONENTS

FA COMPONENTS

MACHINE VISION SYSTEMS

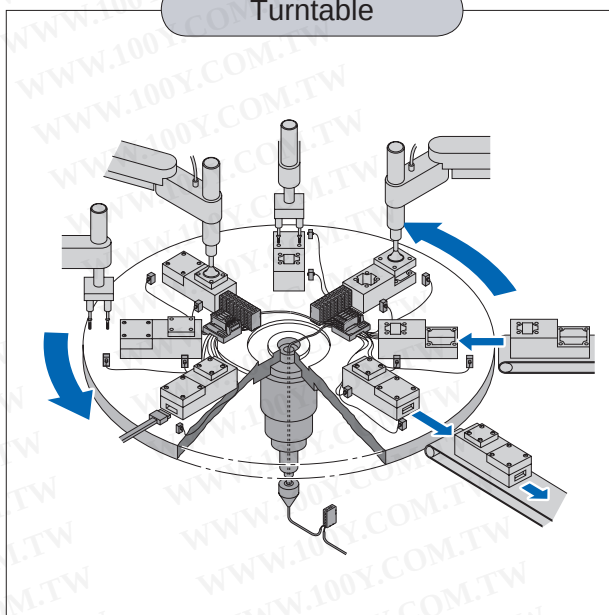
UV CURING SYSTEMS

For Large Scale Systems  
For Medium Scale Systems**S-LINK**

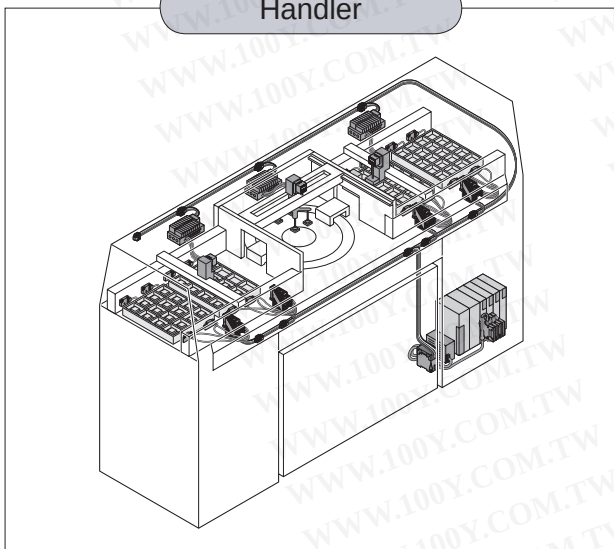
**APPLICATIONS****Integrated installation****Automatic assembly machine**

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

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

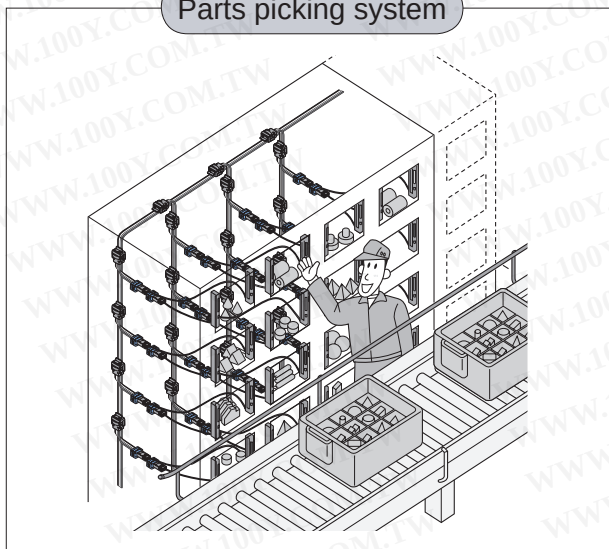
**Turntable**

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.

**Handler**

"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.

**Parts picking system**

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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SENSORSSTATIC CONTROL  
DEVICES

ENDOSCOPE

LASER  
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TERMINALSHUMAN MACHINE  
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VISUALIZATION  
COMPONENTS

FA COMPONENTS

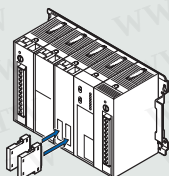
MACHINE VISION  
SYSTEMSUV CURING  
SYSTEMSFor Large  
Scale Systems  
For Medium  
Scale Systems**S-LINK**

**SYSTEM LAYOUT**FIBER  
SENSORSLASER  
SENSORSPHOTOELECTRIC  
SENSORSMICRO  
PHOTOELECTRIC  
SENSORSAREA  
SENSORSLIGHT  
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FA COMPONENTS

MACHINE VISION  
SYSTEMSUV CURING  
SYSTEMSFor Large  
Scale Systems  
For Medium  
Scale Systems**S-LINK****Upper-level control devices****PLC****S-LINK control components**PLC I/O connectors  
(for connectable PLC)  
**SL-S□, SL-P□**

CE

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

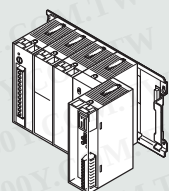
CE

**S-LINK controller  
SL-CU1A**

CE

**Booster  
SL-BS1A**

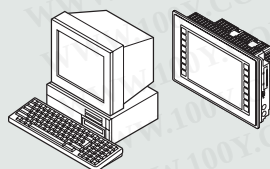
CE

**PLC  
(Direct connection to PLC bus)****S-LINK controller for direct connection to PLC bus / S-LINK control boards****FPΣ  
S-LINK unit  
FPG-SL****FP0 S-LINK  
Control unit  
FP0-SL1****FP2SH  
S-LINK unit  
FP2-SL2**For Mitsubishi Electric Corp.  
PLC MELSEC-Q series  
**SL-MEL-Q**

CE

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

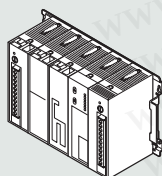
CE

**Items offered by partner makers**Controllers manufactured by  
JTEKT Corp.  
**THU-5291****Personal computers**For ISA bus **SL-PCAT**

CE

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

CE

**Open network  
compatible PLC**For CC-Link  
**SL-GU1-C**

CE

CC-Link

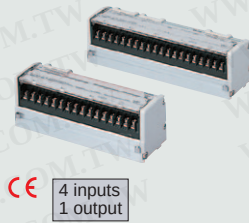
For Device Net  
**SL-GU1-D**

CE

DeviceNet

**SYSTEM LAYOUT****S-LINK I/O devices**

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



1 • 2 channel I/O unit  
SL-CH□(-PN)



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



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



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



8-branch connector tap  
SL-T8PW



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



Relay output terminal unit  
SL-TPR4, SL-TPR8



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



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



S-LINK direct hook-up  
photoelectric sensor  
SL-A□



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

**Items offered by partner makers**

Manifold electromagnetic valve  
manufactured by Koganei Corp.



Manifold electromagnetic valve  
manufactured by SMC Pneumatics



Manifold electromagnetic valve  
manufactured by CKD Corp.



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

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Scale Systems**S-LINK****Plug-in units (for SL-BM, SL-BX)**

Amplifier-separated  
photoelectric sensor  
SU-7J

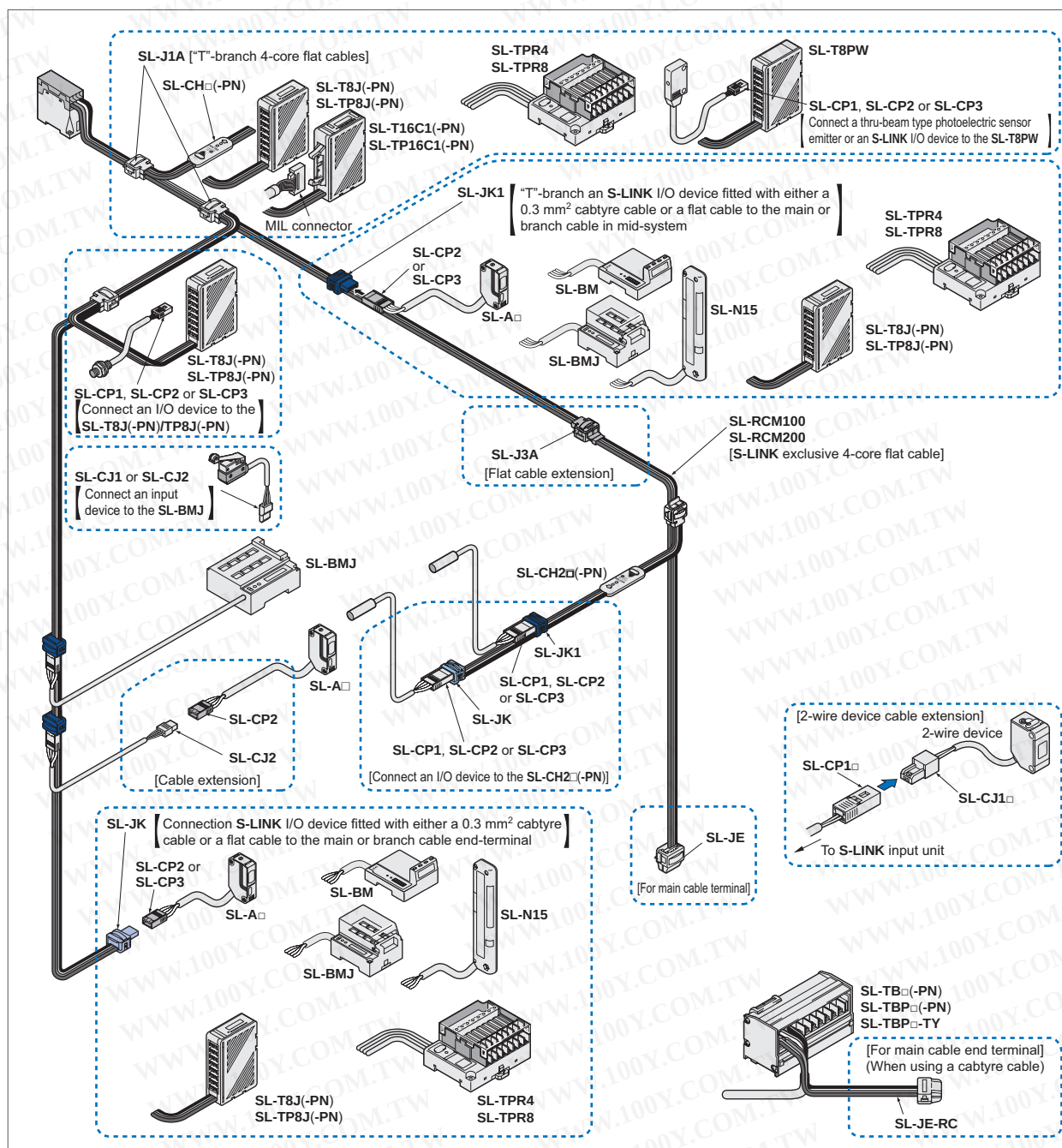


Input terminal unit  
SL-TJ1



## 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                                                                                                                                                                                                                                                                                                 |
|------------------------------------------------------|-----------------------------------------------------------------------------------------------|------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>S-LINK</b> controller                             |  <b>CE</b>   | <b>SL-CU1A</b>               | 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.                                                 |
| <b>FPΣ</b> <b>S-LINK</b> unit                        |              | <b>FPG-SL</b><br>(AFP6780)   | It controls the <b>S-LINK</b> system by directly connecting to the <b>FPΣ</b> series.                                                                                                                                                                                                                       |
| <b>FP0</b> <b>S-LINK</b> Control unit                |              | <b>FP0-SL1</b><br>(AFP02700) | It controls the <b>S-LINK</b> system by directly connecting to the <b>FP0</b> series.                                                                                                                                                                                                                       |
| <b>FP2SH</b> <b>S-LINK</b> unit                      |              | <b>FP2-SL2</b><br>(AFP2780)  | It controls the <b>S-LINK</b> system by directly connecting to the <b>FP2SH</b> series.                                                                                                                                                                                                                     |
| Mitsubishi Electric PLC bus <b>S-LINK</b> controller |  <b>CE</b>  | <b>SL-MEL-Q</b>              | It can be directly connected to the bus line of the MELSEC-Q series PLC manufactured by Mitsubishi Electric Corp.<br>( Has <b>S-LINK</b> 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 <b>S-LINK</b> controller   |  <b>CE</b> | <b>SL-FAM3</b>               | It can be directly connected to the bus line of the FA-M3 series PLC manufactured by Yokogawa Electric Corp.<br>( Has <b>S-LINK</b> 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 <b>S-LINK</b> control board                    |  <b>CE</b> | <b>SL-PCAT</b>               | It can be fitted into the expansion slot (ISA bus) of PC/AT series or compatible to control the <b>S-LINK</b> system.<br>( Has <b>S-LINK</b> controller as well as PLC input and output connector functions so you don't have to prepare for these items. )                                                 |
| PC/104 bus <b>S-LINK</b> control board               |  <b>CE</b> | <b>SL-PC104</b>              | Controls the <b>S-LINK</b> system by directly coupling (stack) the PC/104 bus line to a PC/104 bus compatible PC board or panel computer.<br>( Has <b>S-LINK</b> controller as well as PLC input and output connector functions so you don't have to prepare for these items. )                             |

Note: Components with “**CE**” 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 **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.

FIBER  
SENSORSLASER  
SENSORSPHOTO-  
ELECTRIC  
SENSORSMICRO  
PHOTO-  
ELECTRIC  
SENSORSAREA  
SENSORSLIGHT  
CURTAINSPRESSURE /  
FLOW  
SENSORSINDUCTIVE  
PROXIMITY  
SENSORSPARTICULAR  
USE  
SENSORSSENSOR  
OPTIONSSIMPLE  
WIRE-  
SAVING  
UNITSWIRE-  
SAVING  
SYSTEMSMEASURE-  
MENT  
SENSORSSTATIC  
CONTROL  
DEVICES

ENDOSCOPE

LASER  
MARKERSPLC /  
TERMINALSHUMAN  
MACHINE  
INTERFACESENERGY  
CONSUMPTION  
VISUALIZATION  
COMPONENTSFA  
COMPONENTSMACHINE  
VISION  
SYSTEMSUV  
CURING  
SYSTEMSFor Large Scale  
SystemsFor Medium  
Scale Systems**S-LINK**

**ORDER GUIDE****Products for open network**

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

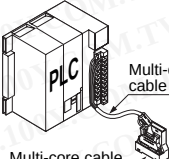
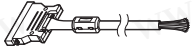
Note: Components with " **CE** " mark conform to the CE marking EMC Directive.

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

• **Conditions**

- ① Cable length between the main power supply and the **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**

| Designation                   |          | Appearance (Note 1)                                                                 | Model No.        |              | Description                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|-------------------------------|----------|-------------------------------------------------------------------------------------|------------------|--------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                               |          |                                                                                     | For input        | For output   |                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Multi-core cable PLC I/O unit | NPN type |  | <b>SL-S</b>      | <b>SL-P</b>  | This is the Multi-core cable PLC I/O unit for connecting the screw-on terminal type PLC with the <b>S-LINK</b> system. Interfaces I/O data between the <b>S-LINK</b> controller and PLC. It includes the I/O data conversion circuit for serial to parallel or parallel to serial conversion. I/O points: 32 points per unit. Connection to screw-on terminal type PLC is by an optional multi-core cable attached with an MIL connector on one end. |
|                               | PNP type |                                                                                     | <b>SL-SP</b>     | <b>SL-PP</b> |                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Multi-core cable              |          |  | <b>SL-L2000F</b> |              | Length: 2 m <a href="#">6.562 ft</a><br>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 " **CE** " 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  $\mu\text{F}$  or less.
- 3) Since the multi-core cable PLC output units **SL-P**, **SL-PP** are high input impedance, time division input type devices, please use PLC output modules whose output circuit can operate at a load current of even 0.1 mA.

FIBER SENSORS

LASER SENSORS

PHOTO-ELECTRIC SENSORS  
MICRO PHOTO-ELECTRIC SENSORS

AREA SENSORS

LIGHT CURTAINS

PRESSURE / FLOW SENSORS

INDUCTIVE PROXIMITY SENSORS

PARTICULAR USE SENSORS

SENSOR OPTIONS

SIMPLE WIRE-SAVING UNITS

WIRE-SAVING SYSTEMS

MEASUREMENT SENSORS

STATIC CONTROL DEVICES

ENDOSCOPE

LASER MARKERS

PLC / TERMINALS

HUMAN MACHINE INTERFACES

ENERGY CONSUMPTION VISUALIZATION COMPONENTS

FA COMPONENTS

MACHINE VISION SYSTEMS

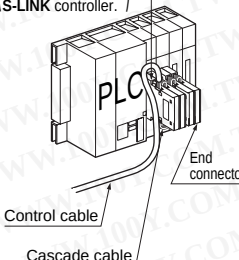
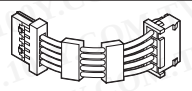
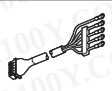
UV CURING SYSTEMS

For Large Scale Systems

For Medium Scale Systems

**S-LINK**

**ORDER GUIDE****PLC related units**

| Designation                                                                                                                                | Appearance (Note 1)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Model No.        |              | Description                                                                  |                                                                            |                                                                                                                                                              |                                                                                                                                                              |
|--------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|--------------|------------------------------------------------------------------------------|----------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | For input        | For output   | Manufacturer                                                                 | PLC                                                                        | PLC input module (Note 4)                                                                                                                                    | PLC output module (Note 4)                                                                                                                                   |
| PLC input connector<br><br>PLC output connector<br><br> | Fujitsu Component connector specs.<br><br>MIL connector specs.<br><br><br>PLC input connectors<br>PLC output connectors<br>(same shape) (Note 2)<br><br>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 <b>S-LINK</b> controller.<br><br>(The PLC I/O connector converts I/O data from serial to parallel, and vice versa.<br>I/O points: 32 points per connector) | <b>SL-S1</b>     | <b>SL-P1</b> | Panasonic Electric Works<br>SUNX Co., Ltd.<br>Toshiba Machine Co., Ltd.      | FPΣ<br>(Excluding the FPG-C32T)<br>FP2<br>TC200                            | FPG-XY64D2T<br>(X side)<br>FP2-X32D2<br>TC64DI                                                                                                               | FPG-XY64D2T<br>(Y side)<br>FP2-Y32T<br>TC64DON                                                                                                               |
|                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | <b>SL-S2</b>     | <b>SL-P2</b> | Fuji Electric FA Components & Systems Co., Ltd.                              | NS series<br>F55<br>F70                                                    | NS-X64-1<br>NS-XY64-1 (X side)<br>NV1X3204<br>NV1X3204-W<br>NV1X3206<br>NC1X3204<br>NC1X3204-3<br>NC1X3206<br>NC1X6404<br>NC1X6406<br>NC1W6406T (X side)     | NS-Y64-T1<br>NS-XY64-1 (Y side)<br>NV1Y32T05P1<br>NC1Y32T05P1<br>NC1Y64T05P1-1<br>NC1W6406T (Y side)                                                         |
|                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | <b>SL-S3</b>     | <b>SL-P3</b> | Fuji Electric FA Components & Systems Co., Ltd.<br>Mitsubishi Electric Corp. | SX series SPH<br>AnS<br>AnN, AnA<br>AnU, QnA<br>QnAs<br>Q<br>A2CJ          | NP1X3206-W<br>NP1X6406-W<br>A1SX41<br>A1SX42<br>A1SH42 (X side)<br>AX42<br>AH42 (X side)<br>QX41, QX42<br>AJ35TC1-32D                                        | NP1Y32T09P1<br>NP1Y64T09P1<br>A1SY41<br>A1SY42<br>A1SH42 (Y side)<br>AY42<br>AH42 (Y side)<br>QY41P, QY42P<br>AJ35TC1-32T                                    |
|                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | <b>SL-S4</b>     | <b>SL-P4</b> | Sharp Manufacturing Systems Corp.                                            | JW20, JW20H<br>JW30H<br>JW50H                                              | JW-234N<br>JW-264N<br>JW-34NC<br>JW-64NC                                                                                                                     | JW-232S<br>JW-262S<br>JW-32SC<br>JW-62SC                                                                                                                     |
|                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | <b>SL-S5</b>     | <b>SL-P5</b> | Omron Corp.                                                                  | CJ1<br>CS1<br>CVM1, CV<br>C500<br>C1000H<br>C2000H<br>C200H series<br>CQM1 | CJ1W-ID231<br>CJ1W-ID261<br>CJ1W-MD261 (X side)<br>CS1W-ID231<br>CS1W-ID261<br>CS1W-MD261 (X side)<br>C500-ID219<br>C200H-ID216<br>C200H-ID217<br>CQM1-ID213 | CJ1W-OD231<br>CJ1W-OD261<br>CJ1W-MD261 (Y side)<br>CS1W-OD231<br>CS1W-OD261<br>CS1W-MD261 (Y side)<br>C500-OD213<br>C200H-OD218<br>C200H-OD219<br>CQM1-OD213 |
|                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                  |              | Hitachi Ltd.                                                                 | EH-150                                                                     | EH-XD32                                                                                                                                                      | EH-YT32                                                                                                                                                      |
|                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                  |              | Yokogawa Electric Corp.                                                      | FA500<br>FA-M3                                                             | XD64-6N<br>WD64-6N (X side)<br>F3XD32-3N<br>F3XD64-3N                                                                                                        | YD64-1A<br>WD64-6N (Y side)<br>F3YD32-1A<br>F3YD64-1A                                                                                                        |
|                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                  |              | Toshiba Corp.                                                                | T3                                                                         | DI-335<br>DI-335H                                                                                                                                            | DO-335                                                                                                                                                       |
|                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                  |              | Yasukawa Electric Corp.                                                      | GL20, GL40S<br>GL60S, GL60H<br>GL70H                                       | —                                                                                                                                                            | B2604                                                                                                                                                        |
|                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | <b>SL-S6</b>     | <b>SL-P6</b> | Hitachi Ltd.                                                                 | H series                                                                   | XDC24D2H                                                                                                                                                     | YTR24DH                                                                                                                                                      |
|                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | <b>SL-S7</b>     | —            | Yasukawa Electric Corp.                                                      | GL20, GL40S<br>GL60S, GL60H<br>GL70H                                       | B2605                                                                                                                                                        | —                                                                                                                                                            |
| End connector                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | <b>SL-E</b>      |              | It must be connected at the end of the last PLC I/O connector.               |                                                                            |                                                                                                                                                              |                                                                                                                                                              |
| Cascade cable                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | <b>SL-F70</b>    |              | Length: 70 mm                                                                | 2.756 in                                                                   | It links PLC input / PLC output connectors.                                                                                                                  |                                                                                                                                                              |
|                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | <b>SL-F150</b>   |              | Length: 150 mm                                                               | 5.906 in                                                                   |                                                                                                                                                              |                                                                                                                                                              |
|                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | <b>SL-F250</b>   |              | Length: 250 mm                                                               | 9.843 in                                                                   |                                                                                                                                                              |                                                                                                                                                              |
|                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | <b>SL-F1000</b>  |              | Length: 1,000 mm                                                             | 39.370 in                                                                  |                                                                                                                                                              |                                                                                                                                                              |
| Control cable                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | <b>SL-C1000</b>  |              | Length: 1 m                                                                  | 3.281 ft                                                                   | It links the <b>S-LINK</b> controller and the first PLC I/O connector.                                                                                       |                                                                                                                                                              |
|                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | <b>SL-C2000</b>  |              | Length: 2 m                                                                  | 6.562 ft                                                                   |                                                                                                                                                              |                                                                                                                                                              |
|                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | <b>SL-C5000</b>  |              | Length: 5 m                                                                  | 16.404 ft                                                                  |                                                                                                                                                              |                                                                                                                                                              |
|                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | <b>SL-C2000F</b> |              | Length: 2 m                                                                  | 6.562 ft                                                                   |                                                                                                                                                              |                                                                                                                                                              |

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

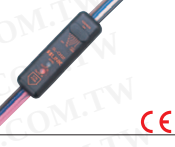
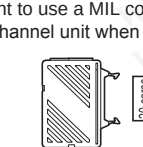
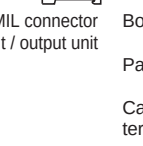
However, note that for the PLC I/O connectors to conform to CE marking EMC Directive, it is necessary to use cascade cable **SL-F70**, **SL-F150** or **SL-F250** and control cable **SL-C2000F**.

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.

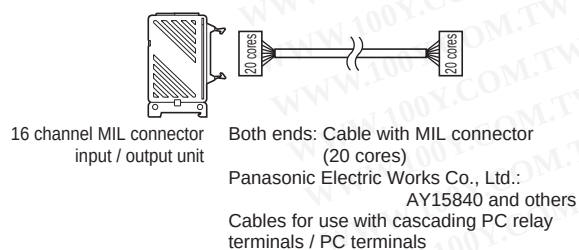
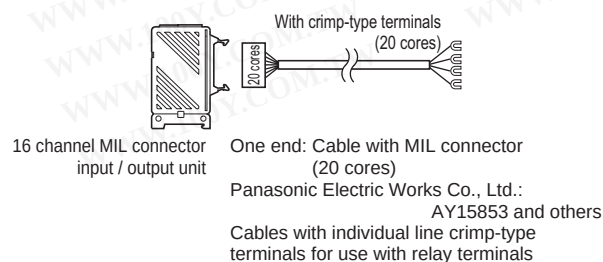
4) X side and Y side indicate the input and the output connectors, respectively, of the compound input / output module.

**ORDER GUIDE****S-LINK I/O devices**

| Designation                      | Appearance (Note 1)                                                                 | Model No.           | Description    |                                                                                                                                                                                                                                                                                                                                                                            |
|----------------------------------|-------------------------------------------------------------------------------------|---------------------|----------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1 channel I/O unit               |    | <b>SL-CH1</b>       | NPN type       | It can be used as either an input unit or an output unit by switch selection. Signals, such as from the sensor and limit switch, can be transmitted by the signal transmission line. These signals from the signal transmission line can turn ON / OFF the transistor output.                                                                                              |
|                                  |                                                                                     | <b>SL-CH1-PN</b>    | PNP type       |                                                                                                                                                                                                                                                                                                                                                                            |
| 2 channel I/O mixed unit         |    | <b>SL-CH21</b>      | NPN type       | 1 input and 1 output are equipped. 1 input device and 1 output device are connectable.                                                                                                                                                                                                                                                                                     |
|                                  |                                                                                     | <b>SL-CH21-PN</b>   | PNP type       |                                                                                                                                                                                                                                                                                                                                                                            |
| 2 channel input unit             |    | <b>SL-CH20</b>      | NPN type       | 2 input devices are connectable.                                                                                                                                                                                                                                                                                                                                           |
|                                  |                                                                                     | <b>SL-CH20-PN</b>   | PNP type       |                                                                                                                                                                                                                                                                                                                                                                            |
| 2 channel output unit            |   | <b>SL-CH22</b>      | NPN type       | 2 output devices are connectable.                                                                                                                                                                                                                                                                                                                                          |
|                                  |                                                                                     | <b>SL-CH22-PN</b>   | PNP type       |                                                                                                                                                                                                                                                                                                                                                                            |
| Connector I/O unit               |  | <b>SL-T8J</b>       | 8 NPN inputs   | 8 input or 8 output devices are connectable with snap male connectors. 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.                                                                                                                                         |
|                                  |                                                                                     | <b>SL-T8J-PN</b>    | 8 PNP inputs   |                                                                                                                                                                                                                                                                                                                                                                            |
|                                  |                                                                                     | <b>SL-TP8J</b>      | 8 NPN outputs  |                                                                                                                                                                                                                                                                                                                                                                            |
|                                  |  | <b>SL-TP8J-PN</b>   | 8 PNP outputs  |                                                                                                                                                                                                                                                                                                                                                                            |
|                                  |                                                                                     | <b>SL-T16C1</b>     | 16 NPN 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 signal hold function, which retains the output state just prior to an error on the signal transmission line.                                                                                      |
|                                  |                                                                                     | <b>SL-T16C1-PN</b>  | 16 PNP inputs  |                                                                                                                                                                                                                                                                                                                                                                            |
| Connector I/O unit               |  | <b>SL-TP16C1</b>    | 16 NPN outputs |                                                                                                                                                                                                                                                                                                                                                                            |
|                                  |                                                                                     | <b>SL-TP16C1-PN</b> | 16 PNP outputs |                                                                                                                                                                                                                                                                                                                                                                            |
|                                  |                                                                                     | (Note 2)            |                |                                                                                                                                                                                                                                                                                                                                                                            |
|                                  |  | <b>SL-T8E</b>       | 8 NPN inputs   | Up to 8 input or output devices can be easily connected via e-CON. Also, when there is an abnormality in the signal communication line, the output status just before the abnormality can be preserved since the output unit is equipped with an output hold function. *For the connector, please separately purchase a commercial product which supports e-CON standards. |
|                                  |                                                                                     | <b>SL-T8E-PN</b>    | 8 PNP inputs   |                                                                                                                                                                                                                                                                                                                                                                            |
|                                  |                                                                                     | <b>SL-TP8E</b>      | 8 NPN outputs  |                                                                                                                                                                                                                                                                                                                                                                            |
| Analog I/O arrayed terminal unit |  | <b>SL-TB8E-PN</b>   | 8 PNP outputs  |                                                                                                                                                                                                                                                                                                                                                                            |
|                                  |                                                                                     |                     |                |                                                                                                                                                                                                                                                                                                                                                                            |
| Input terminal                   |  | <b>SL-TBAD4</b>     | 4 inputs       | This is an analog input terminal unit which can connect 4 devices having an analog input. Since power supply terminals have been provided for each input channel, neat wiring is possible.                                                                                                                                                                                 |
|                                  |                                                                                     |                     |                |                                                                                                                                                                                                                                                                                                                                                                            |
| Output terminal                  |  | <b>SL-TBDA1</b>     | 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.                                                                                                                              |
|                                  |                                                                                     |                     |                |                                                                                                                                                                                                                                                                                                                                                                            |

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

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



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

**ORDER GUIDE****S-LINK I/O devices**

| Designation                | Appearance (Note 1)                                                                 | Model No.          | Description        |
|----------------------------|-------------------------------------------------------------------------------------|--------------------|--------------------|
| I/O arrayed terminal unit  |    | <b>SL-TB4</b>      | 4 NPN inputs       |
|                            |                                                                                     | <b>SL-TB4-PN</b>   | 4 PNP inputs       |
|                            |                                                                                     | <b>SL-TB8</b>      | 8 NPN inputs       |
|                            |                                                                                     | <b>SL-TB8-PN</b>   | 8 PNP inputs       |
|                            |                                                                                     | <b>SL-TB16</b>     | 16 NPN inputs      |
|                            |                                                                                     | <b>SL-TB16-PN</b>  | 16 PNP inputs      |
|                            |    | <b>SL-TBP4</b>     | 4 NPN outputs      |
|                            |                                                                                     | <b>SL-TBP4-PN</b>  | 4 PNP outputs      |
|                            |                                                                                     | <b>SL-TBP8</b>     | 8 NPN outputs      |
|                            |                                                                                     | <b>SL-TBP8-PN</b>  | 8 PNP outputs      |
|                            |                                                                                     | <b>SL-TBP16</b>    | 16 NPN outputs     |
|                            |                                                                                     | <b>SL-TBP16-PN</b> | 16 PNP outputs     |
|                            |  | <b>SL-TBP4-TY</b>  | 4 NPN outputs      |
|                            |                                                                                     | <b>SL-TBP8-TY</b>  | 8 NPN outputs      |
|                            |                                                                                     | <b>SL-TBP16-TY</b> | 16 NPN outputs     |
| Relay output terminal unit | 4 relay output                                                                      | <b>SL-TPR4</b>     | 4 outputs (Note 2) |
|                            | 8 relay output                                                                      | <b>SL-TPR8</b>     | 8 outputs (Note 2) |

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

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

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**ORDER GUIDE****S-LINK I/O devices**

| Designation                                        | Appearance (Note)                                                                   | Model No.     | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|----------------------------------------------------|-------------------------------------------------------------------------------------|---------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Sensor block<br>Snap-connector<br>For plug-in unit |    | <b>SL-BMJ</b> | 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 <b>SL-BMJ</b> can be extended by one <b>SL-BXJ</b> or two <b>SL-BXs</b> , up to 16 input points.<br>( It can generate the ORed self-diagnosis output of all the connected devices. )<br>( In this case, the first channel gets occupied. )                       |
|                                                    |    | <b>SL-BXJ</b> | It can follow either main block, and allows connection of 8 input devices.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|                                                    |    | <b>SL-BM</b>  | It allows connection of various kinds of plug-in units and changes signals from plug-in units into serial signals and transmits them to the signal transmission line.<br>One <b>SL-BM</b> can be extended by three <b>SL-BXs</b> or one <b>SL-BX</b> plus one <b>SL-BXJ</b> , up to 16 input points.<br>( It can generate the ORed self-diagnosis output of all connected units. In this case, the first channel gets occupied. )                                                                                                                                      |
|                                                    |    | <b>SL-BX</b>  | It can follow either main block, and allows connection of four plug-in units.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Plug-in unit                                       |  | <b>SU-7J</b>  | Its thickness is merely 10 mm <b>0.394 in</b> . The sensitivity is automatically set with ease.12 kinds of sensor heads are suitable with it.<br>(For details, refer to the <b>SU-7/SH</b> series pages.)                                                                                                                                                                                                                                                                                                                                                              |
|                                                    |  | <b>SL-TJ1</b> | 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.                                                                                                                                                                                                                                                                                                                                                                                                                     |
| S-LINK direct hook-up photoelectric sensor         |  | <b>SL-A11</b> | Thru-beam type 10 m <b>32.808 ft</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|                                                    |                                                                                     | <b>SL-A13</b> | Thru-beam type 30 m <b>98.425 ft</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|                                                    |                                                                                     | <b>SL-A19</b> | Retroreflective type with polarizing filters 0.1 to 5 m <b>0.328 to 16.404 ft</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|                                                    |                                                                                     | <b>SL-A12</b> | Diffuse reflective type 700 mm <b>27.559 in</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| S-LINK direct hook-up picking sensor               |  | <b>SL-N15</b> | Sensing range: 0.2 to 3 m<br><b>0.656 to 9.843 ft</b><br>( 0.05 to 1 m <b>0.164 to 3.281 ft</b> )<br>(when the switch is set to SHORT)<br>Beam pitch: 25 mm <b>0.984 in</b><br>Sensing height: 100 mm <b>3.937 in</b><br>Sensing object: ø35 mm <b>ø1.378 in</b> or more opaque object<br>It is a parts-taking verification sensor with five sensing beams and can be hooked up to the <b>S-LINK</b> cable without any interface.<br>Both the emitter and the receiver are incorporated with bright orange LED job indicators that are easily visible to the operator. |

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

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For Medium Scale Systems

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**ORDER GUIDE****Connectors**

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

Note: For UL compatibility, please contact our office.

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**ORDER GUIDE****Basic units**

| Designation |                 | Appearance                                                                        | Model No.       | Description            |                                                                                                                                                        |
|-------------|-----------------|-----------------------------------------------------------------------------------|-----------------|------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|
| I/O module  | Vertical type   |  | <b>SL-M8</b>    | 8 inputs               | These are IC type modules which enable external connection of address setting switches and operation indicators. They increase the design flexibility. |
|             |                 |                                                                                   | <b>SL-M16</b>   | 16 inputs              |                                                                                                                                                        |
|             |                 |                                                                                   | <b>SL-M4P4</b>  | 4 inputs and 4 outputs |                                                                                                                                                        |
|             |                 |                                                                                   | <b>SL-MP8</b>   | 8 outputs              |                                                                                                                                                        |
|             | Horizontal type |  | <b>SL-MP16</b>  | 16 outputs             |                                                                                                                                                        |
|             |                 |                                                                                   | <b>SL-M8F</b>   | 8 inputs               |                                                                                                                                                        |
|             |                 |                                                                                   | <b>SL-M16F</b>  | 16 inputs              |                                                                                                                                                        |
|             |                 |                                                                                   | <b>SL-M4P4F</b> | 4 inputs and 4 outputs |                                                                                                                                                        |
|             |                 |                                                                                   | <b>SL-MP8F</b>  | 8 outputs              |                                                                                                                                                        |
|             |                 |                                                                                   | <b>SL-MP16F</b> | 16 outputs             |                                                                                                                                                        |

**Optional units**

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

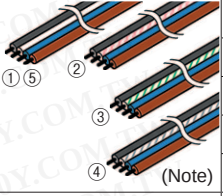
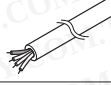
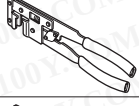
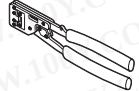
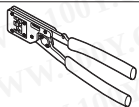
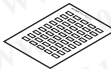
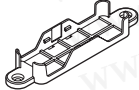
Note: Components with "CE" mark conform to the CE marking EMC Directive.

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**ORDER GUIDE****Others**

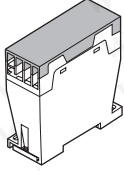
| Designation                                 | Appearance                                                                                | Model No.                                 | Description                                                                                                                                                                                                                                                                                                                                     |
|---------------------------------------------|-------------------------------------------------------------------------------------------|-------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 8-branch connector tap                      |          | <b>SL-T8PW</b>                            | Connects easily to up to 8 thru-beam type photoelectric sensor emitters or <b>S-LINK</b> I/O devices with snap male connectors.                                                                                                                                                                                                                 |
| 2-pin type snap female connector            |  (Note)  | <b>SL-CJ12</b> (White)<br>10 pcs. per set | For 0.08 to 0.2 mm <sup>2</sup> (Conductor cross-section area)<br>Wire dia.: $\phi 0.7$ to $\phi 1.2$ mm<br>$\phi 0.028$ to $\phi 0.047$ in                                                                                                                                                                                                     |
|                                             |  (Note)  | <b>SL-CJ22</b> (Black)<br>10 pcs. per set | For 0.3 mm <sup>2</sup> (Conductor cross-section area)<br>Wire dia.: $\phi 1.1$ to $\phi 1.6$ mm<br>$\phi 0.043$ to $\phi 0.063$ in                                                                                                                                                                                                             |
| 2-pin type snap male connector              |  (Note)  | <b>SL-CP12</b> (White)<br>10 pcs. per set | For 0.08 to 0.2 mm <sup>2</sup> (Conductor cross-section area)<br>Wire dia.: $\phi 0.7$ to $\phi 1.2$ mm<br>$\phi 0.028$ to $\phi 0.047$ in                                                                                                                                                                                                     |
|                                             |  (Note)  | <b>SL-CP22</b> (Black)<br>10 pcs. per set | For 0.3 mm <sup>2</sup> (Conductor cross-section area)<br>Wire dia.: $\phi 1.1$ to $\phi 1.6$ mm<br>$\phi 0.043$ to $\phi 0.063$ in                                                                                                                                                                                                             |
| Exclusive flat cable (4-core)               |  (Note) | <b>SL-RCM100</b>                          | D line: White ①                                                                                                                                                                                                                                                                                                                                 |
|                                             |                                                                                           | <b>SL-RCM100-PK</b>                       | D line: White with pink stripe ②                                                                                                                                                                                                                                                                                                                |
|                                             |                                                                                           | <b>SL-RCM100-GN</b>                       | D line: White with green stripe ③                                                                                                                                                                                                                                                                                                               |
|                                             |                                                                                           | <b>SL-RCM100-GY</b>                       | D line: White with gray stripe ④                                                                                                                                                                                                                                                                                                                |
|                                             |                                                                                           | <b>SL-RCM200</b>                          | Length: 200 m $\phi 656.168$ ft, D line: White ⑤                                                                                                                                                                                                                                                                                                |
| Exclusive cabtyre cable (4-core)            |        | <b>SL-CBM100</b>                          | Length: 100 m $\phi 328.084$ ft                                                                                                                                                                                                                                                                                                                 |
|                                             |                                                                                           | <b>SL-CBM200</b>                          | Length: 200 m $\phi 656.168$ ft                                                                                                                                                                                                                                                                                                                 |
| Exclusive pliers                            |        | <b>SL-JPS</b>                             | Hook-up connector ( <b>SL-J□</b> ) can be connected in one grip.                                                                                                                                                                                                                                                                                |
| <b>SL-CP3</b> exclusive pliers              |        | <b>SL-JPE</b>                             | 4-pin type snap male connector ( <b>SL-CP3</b> ) can be connected in one grip.                                                                                                                                                                                                                                                                  |
| Male / female connector exclusive pliers    |        | <b>SL-JPC</b>                             | Snap female connector ( <b>SL-CJ1/CJ2</b> , <b>SL-CJ11/CJ12</b> ) and snap male connector ( <b>SL-CP1/CP2</b> , <b>SL-CP11/CP12</b> ) can be connected in one grip.                                                                                                                                                                             |
| Address label                               |        | <b>SL-MA1-SET</b><br>4 sheets. per set    | By sticking the labels on the respective <b>S-LINK</b> devices, the set addresses can be confirmed at one glance. <b>SL-MA1-SET</b> is available in white, pink, green and gray colors, as a 4-sheet set, and is convenient when used by matching the color with that of the <b>S-LINK</b> exclusive flat cable (100 m $\phi 328.084$ ft type). |
| DIN rail mounting bracket for <b>SL-CH□</b> |        | <b>MS-CH×10</b><br>10 pcs. per set        | Mounting bracket enabling the <b>SL-CH□(-PN)</b> I/O units to be mounted onto a 35 mm $\phi 1.378$ 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 <b>SL-CH□</b>           |        | <b>MS-SLH</b><br>5 pcs. per set           | It is used to mount the <b>SL-CH□(-PN)</b> unit. (Please arrange two M4 pan-head screws separately.)                                                                                                                                                                                                                                            |

Note: For UL compatibility, please contact our office.

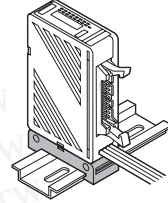
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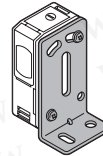
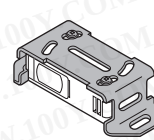
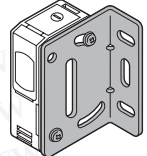
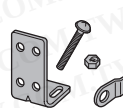
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**ORDER GUIDE****Accessories**• **NPS-CV**(Protective cover for the **SL-CU1A**,  
**SL-BS1A** or **SL-CU1-485**)• **RF-230**(Reflector for the **SL-A19**)• **MS-SL-2**

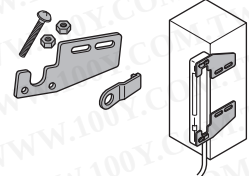
(Mounting base for connector I/O units)

**OPTIONS**

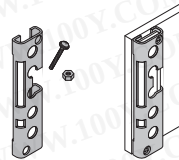
| Designation                                                                  | Model No.                             | Description                                                                                                                                                                        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

**Sensor mounting bracket for SL-A□**• **MS-NX5-1**Two M4 (length 25 mm **0.984 in**) screws with washers and two M4 nuts are attached.• **MS-NX5-2**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**

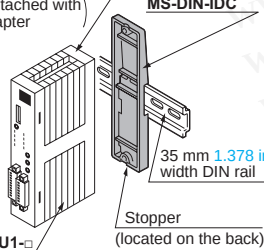
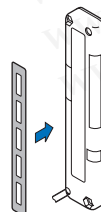
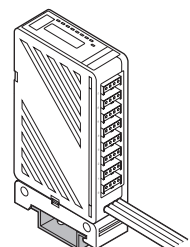
M4 screws with washers, nuts and hooks are attached.

• **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 are attached.

**Reflector mounting bracket**• **MS-RF23**Two M4 (length 10 mm **0.394 in**) screws with washers are attached.**DIN rail adapter**• **MS-DIN-IDC**Two M4 (length 12 mm **0.472 in**) screws with washers  
(Two pcs. are attached with the DIN rail adapter)DIN rail adapter **MS-DIN-IDC**35 mm **1.378 in** width DIN railStopper  
(located on the back)**SL-GU1-□****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.



勝特力材料 886-3-5753170  
 胜特力电子(上海) 86-21-34970699  
 胜特力电子(深圳) 86-755-83298787  
[Http://www.100y.com.tw](http://www.100y.com.tw)

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

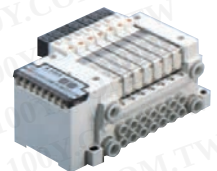
**Component indicator lamp**  
 Yazaki Industrial Chemical Co., Ltd.



**Manifold electromagnetic valves**  
 Koganei Corp.



**Manifold electromagnetic valves**  
 SMC Pneumatics



**Manifold electromagnetic valves**  
 CKD Corp.


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

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


**S-LINK Design Manual**

Holds information necessary when designing the layout for the **S-LINK** system. Refer to it for specifications and for illustration showing exterior dimensions.


**S-LINK Construction Manual**

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

FIBER SENSORS

LASER SENSORS

PHOTO-ELECTRIC SENSORS

MICRO PHOTO-ELECTRIC SENSORS

AREA SENSORS

LIGHT CURTAINS

PRESSURE / FLOW SENSORS

INDUCTIVE PROXIMITY SENSORS

PARTICULAR USE SENSORS

SENSOR OPTIONS

SIMPLE WIRE-SAVING UNITS

WIRE-SAVING SYSTEMS

MEASURE-MENT SENSORS

STATIC CONTROL DEVICES

ENDSCOPE

LASER MARKERS

PLC / TERMINALS

HUMAN MACHINE INTERFACES

ENERGY CONSUMPTION VISUALIZATION COMPONENTS

FA COMPONENTS

MACHINE VISION SYSTEMS

UV CURING SYSTEMS

For Large Scale Systems

For Medium Scale Systems

**S-LINK**