

SUNX S-Link Series



Sensor & Wire Saving LINK System

These Parts Will Discontinued on September 27, 2019

Model No.	Part No.	Description
SL-A11	USLA11	Addressable Thrubeam Photo Sensor
SL-A12	USLA12	Addressable Diffuse Photo Sensor
SL-A13	USLA13	Addressable Thrubeam Photo Sensor
SL-A19	USLA19	Addressable Retro Photo Sensor
SL-BM	USLBM	Addressable Sensor Block
SL-BMJ	USLBMJ	Addressable Input Block
SL-BS1A	USLBS1A	Booster Module
SL-C1000	USLC1000	Control Cable 1m
SL-C2000	USLC2000	Control Cable 2m
SL-C2000F	USLC2000F	Control Cable 2m
SL-C5000	USLC5000	Control Cable 5m
SL-CH1	USLCH1	1CH I/O Addressable I/O Unit
SL-CH1-PN	USLCH1PN	1CH I/O Addressable I/O Unit
SL-CH20	USLCH20	2CH I/O Addressable I/O Unit
SL-CH20-PN	USLCH20PN	2CH I/O Addressable I/O Unit
SL-CH21	USLCH21	2CH I/O Addressable I/O Unit
SL-CH21-PN	USLCH21PN	2CH I/O Addressable I/O Unit
SL-CH22	USLCH22	2CH I/O Addressable I/O Unit
SL-CH22-PN	USLCH22PN	2CH I/O Addressable I/O Unit
SL-CU1A	USLCU1A	S-Link Controller
SL-E	USLE	End Connector
SL-F1000	USLF1000	Cascade Cable 1m
SL-F150	USLF150	Cascade Cable .150m
SL-F250	USLF250	Cascade Cable .250m
SL-F70	USLF70	Cascade Cable .07m
SL-GU1-C	USLGU1C	S-Link Gateway for CC-LINK
SL-HM1	USLHM1	S-Link Handy Monitor
SL-JE	USLJE	End Hook-up Connector
SL-JE-RC	USLJERC	Cable End Hook-up Connector
SL-L2000F	USLL2000F	MIL Connector PLC Cable 2m
SL-M16	USLM16	PC Board Input 16CH
SL-M16F	USLM16F	PC Board Input 16CH
SL-M4P4	USLM4P4	PC Board Input 4CH/Output 4CH
SL-M4P4F	USLM4P4F	PC Board Input/Output 8CH
SL-M8	USLM8	PC Board Input 8CH
SL-M8F	USLM8F	PC Board Input 8CH
SL-MA1	USLMA1	Address Label
SL-MA1-SET	USLMA1SET	Address Label Set
SL-MEL-Q	USLMELQ	S-Link Controller Mitsubishi PLC Bus
SL-MP16	USLMP16	PC Board Output 16CH
SL-MP16F	USLMP16F	PC Board Output 16CH
SL-MP8	USLMP8	PC Board Output 8CH
SL-MP8F	USLMP8F	PC Board Output 8CH
SL-N15	USLN15	Addressable Parts Picking Sensor
SL-P	USLP	PLC I/O Connecting Terminal
SL-P1	USLP1	PLC Connector for Mitsubishi PLC
SL-P2	USLP2	PLC Connector for Fuji PLC
SL-P3	USLP3	PLC Connector for Mitsubishi PLC
SL-P4	USLP4	PLC Connector for Sharp PLC
SL-P5	USLP5	PLC Connector for Omron PLC
SL-P6	USLP6	PLC Connector for Hitachi PLC

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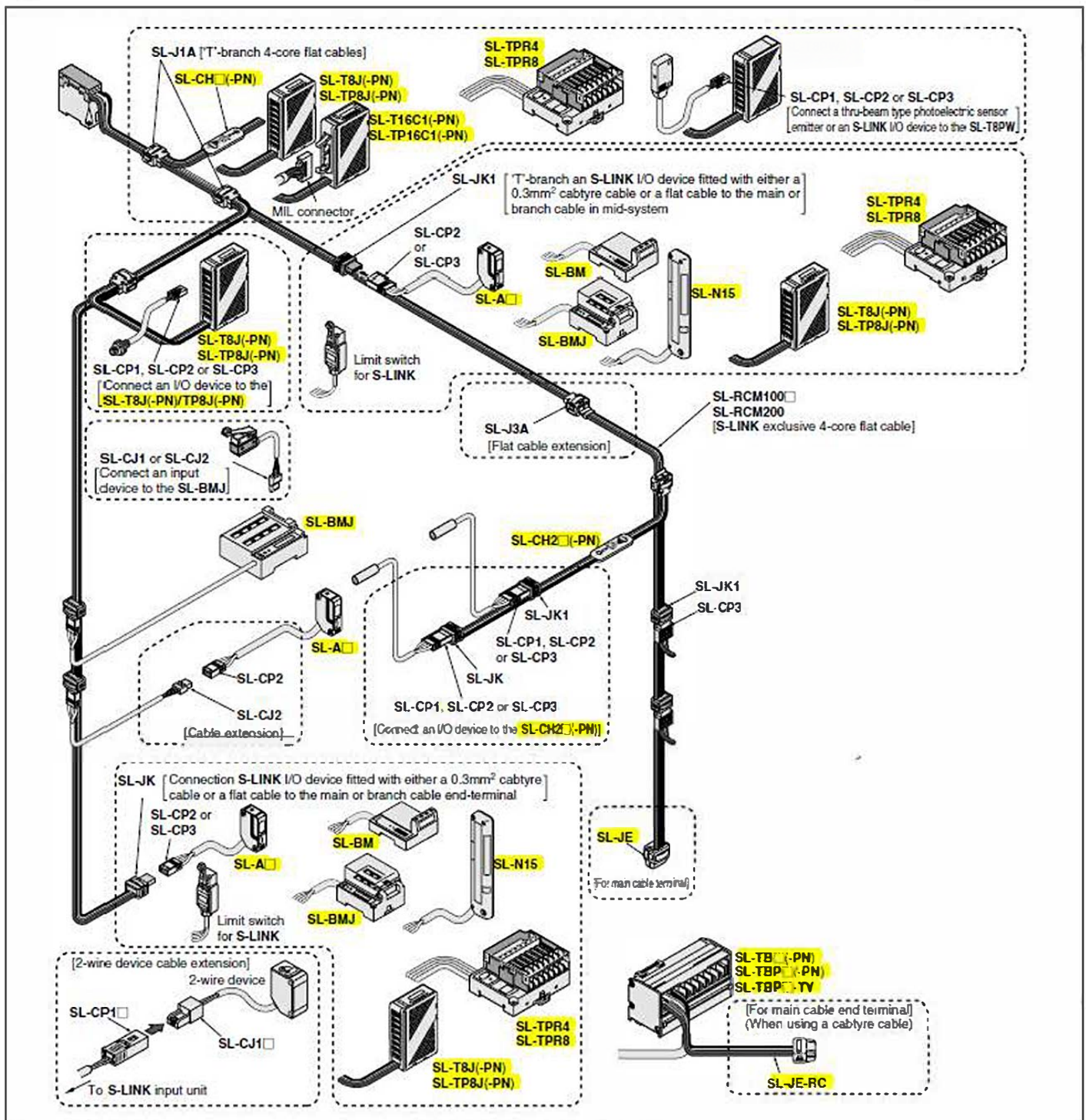
Model No.	Part No.	Description
SL-PC104	USLPC104	S-Link PC/104 Card
SL-PCAT	USLPCAT	S-Link PC/AT Card
SL-PK01	USLPK01	Addressable Part Picking Switch
SL-PP	USLPP	PLC I/O Connecting Terminal
SL-S	USLS	PLC I/O Connecting Terminal
SL-S1	USLS1	PLC Connector for Mitsubishi PLC
SL-S2	USLS2	PLC Connector for Fuji PLC
SL-S3	USLS3	PLC Connector for Mitsubishi PLC
SL-S4	USLS4	PLC Connector for Sharp PLC
SL-S5	USLS5	PLC Connector for Omron PLC
SL-S6	USLS6	PLC Connector for Hitachi PLC
SL-S7	USLS7	PLC Connector for Yasukawa PLC
SL-SP	USLSP	PLC I/O Connecting Terminal
SL-T16C1	USLT16C1	Addressable I/O Module 16CH Input
SL-T16C1-PN	USLT16C1PN	Addressable I/O Module 16CH Input
SL-T8E	USLT8E	Addressable I/O Module 8CH Input
SL-T8E-PN	USLT8EPN	Addressable I/O Module 8CH Input
SL-T8J	USLT8J	Addressable I/O Module 8CH Input
SL-T8J-PN	USLT8JPN	Addressable I/O Module 8CH Input
SL-TB16	USLTB16	Addressable I/O Terminal 16CH Input
SL-TB16-PN	USLTB16PN	Addressable I/O Terminal 16CH Input
SL-TB4	USLTB4	Addressable I/O Terminal 4CH Input
SL-TB4-PN	USLTB4PN	Addressable I/O Terminal 4CH Input
SL-TB8	USLTB8	Addressable I/O Terminal 8CH Input
SL-TB8-PN	USLTB8PN	Addressable I/O Terminal 8CH Input
SL-TBP16	USLTBP16	Addressable I/O Terminal 16CH Output
SL-TBP16-PN	USLTBP16PN	Addressable I/O Terminal 16CH Output
SL-TBP16-TY	USLTBP16TY	Addressable I/O Terminal 16CH Output
SL-TBP4	USLTBP4	Addressable I/O Terminal 4CH Output
SL-TBP4-PN	USLTBP4PN	Addressable I/O Terminal 4CH Output
SL-TBP4-TY	USLTBP4TY	Addressable I/O Terminal 4CH Output
SL-TBP8	USLTBP8	Addressable I/O Terminal 8CH Output
SL-TBP8-PN	USLTBP8PN	Addressable I/O Terminal 8CH Output
SL-TBP8-TY	USLTBP8TY	Addressable I/O Terminal 8CH Output
SL-TP16C1	USLTP16C1	Addressable I/O Module 16CH Output
SL-TP16C1-PN	USLTP16C1PN	Addressable I/O Module 16CH Output
SL-TP8E	USLTP8E	Addressable I/O Module 8CH Output
SL-TP8E-PN	USLTP8EPN	Addressable I/O Module 8CH Output
SL-TP8J	USLTP8J	Addressable I/O Module 8CH Output
SL-TP8J-PN	USLTP8JPN	Addressable I/O Module 8CH Output
SL-TPR4	USLTPR4	Addressable Relay Output 4CH
SL-TPR8	USLTPR8	Addressable Relay Output 8CH
FP0-SL1	AFP02700	FP0 PLC S-Link Card

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S-LINK control units

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

Products for open network

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

Optional units

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

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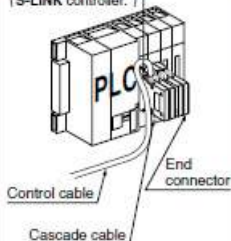
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PLC related units

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 PLC output connector (Note 2, 3)	PLC I/O connectors Max. four PLC I/O connectors can be cascaded with one S-LINK controller.  Control cable End connector Cascade cable Fujitsu connector specs. MIL connector specs.  PLC input connectors PLC output connectors (same shape) CE The listed PLC I/O modules (NPN I/O type) allow the mating PLC I/O connector to be plugged on them for signal transmission between the PLC and the S-LINK controller. (The PLC I/O connector converts I/O data from serial to parallel, and vice versa. I/O points: 32 points per connector) <td>SL-S1</td> <td>SL-P1</td> <td>Matsushita Electric Works, Ltd. Toshiba Machine Co., Ltd.</td> <td>FPΣ (Excluding the FPG-C32T) FP2 FP3, FP10S FP10SH TC200</td> <td>FPG-XY64D2T (X side) FP2-X32D2 AFP33027 TC64DI NS-X64-1 (X side) NV1X3204 NV1X3204-W NV1X3206 NC1X3204 NC1X3204-3 NC1X3206 NC1X6404 NC1X6406 NC1W6406T (X side) F80H, F120H F120S F140S F15XS</td> <td>FPG-XY64D2T (Y side) FP2-Y32T AFP33487 TC64DON NS-Y64-T1 NS-XY64-1 (Y side) NV1Y32T05P1 NC1Y32T05P1 NC1Y64T05P1-1 NC1W6406T (Y side) FTU125A FTU126A FTU127C FTU612A (X side)</td>	SL-S1	SL-P1	Matsushita Electric Works, Ltd. Toshiba Machine Co., Ltd.	FPΣ (Excluding the FPG-C32T) FP2 FP3, FP10S FP10SH TC200	FPG-XY64D2T (X side) FP2-X32D2 AFP33027 TC64DI NS-X64-1 (X side) NV1X3204 NV1X3204-W NV1X3206 NC1X3204 NC1X3204-3 NC1X3206 NC1X6404 NC1X6406 NC1W6406T (X side) F80H, F120H F120S F140S F15XS	FPG-XY64D2T (Y side) FP2-Y32T AFP33487 TC64DON NS-Y64-T1 NS-XY64-1 (Y side) NV1Y32T05P1 NC1Y32T05P1 NC1Y64T05P1-1 NC1W6406T (Y side) FTU125A FTU126A FTU127C FTU612A (X side)
		SL-S2	SL-P2	Fuji Electric Co., Ltd.	NS series F55 F70 F80H, F120H F120S F140S F15XS	NS-X64-1 (X side) NV1X3204 NV1X3204-W NV1X3206 NC1X3204 NC1X3204-3 NC1X3206 NC1X6404 NC1X6406 NC1W6406T (X side) FTU125A FTU126A FTU127C FTU612A (X side)	NS-Y64-T1 NS-XY64-1 (Y side) NV1Y32T05P1 NC1Y32T05P1 NC1Y64T05P1-1 NC1W6406T (Y side) FTU222A FTU227C FTU612A (Y side)
		SL-S3	SL-P3	Fuji Electric Co., Ltd. Mitsubishi Electric Corp.	SX series SPH AnS AnN, AnA AnU, QnA QnAs Q A2CJ	NP1X3206-W NP1X6406-W NP1Y32T09P1 NP1Y64T09P1 A1SX41 A1SX42 A1SH42 (X side) A1SY41 A1SY42 A1SH42 (Y side) AX42 AH42 (X side) AY42 AH42 (Y side) QX41, QX42 QY41P, QY42P AJ35TC1-32D AJ35TC1-32T	NP1Y32T09P1 NP1Y64T09P1 A1SY41 A1SY42 A1SH42 (Y side) AY42 AH42 (Y side) QY41P, QY42P AJ35TC1-32T
		SL-S4	SL-P4	Sharp Manufacturing Systems Corp.	JW20 JW20H JW30H JW50H	JW-234N JW-264N JW-34NC JW-64NC	JW-232S JW-262S JW-32SC JW-62SC
		SL-S5	SL-P5	Omron Corp. Hitachi Ltd. Yokogawa Electric Corp. Toshiba Corp. Yasukawa Electric Corp.	CS1 CVM1, CV C500 C1000H C2000H C200H series COM1 EH-150 EH-XD32 EH-YT32 FA500 WD64-6N (X side) FA-M3 F3XD32-3N F3XD64-3N T3 DI-335 DI-335H GL20, GL40S GL60S, GL60H GL70H	CS1W-ID231 CS1W-ID261 CS1W-OD261 CS1W-OD261 (Y side) C500-ID219 C500-OD213 C200H-ID216 C200H-ID217 C200H-OD218 C200H-OD219 COM1-ID213 COM1-OD213 EH-XD32 EH-YT32 YD64-1A YD64-1A (Y side) F3YD32-1A F3YD64-1A DI-335 DI-335H DO-335 B2604	CS1W-ID231 CS1W-ID261 CS1W-OD261 CS1W-OD261 (Y side) C500-OD213 C200H-OD218 C200H-OD219 COM1-OD213 EH-YT32 YD64-1A (Y side) F3YD32-1A F3YD64-1A DO-335
		SL-S6	SL-P6	Hitachi Ltd.	H series	XDC24D2H	YTR24DH
		SL-S7		Yasukawa Electric Corp.	GL20, GL40S GL60S, GL60H GL70H	B2605	
		End connector		SL-E	It must be connected at the end of the last PLC I/O connector.		
		Cascade cable		SL-F70 SL-F150 SL-F250 SL-F1000	Length: 70 mm 2.756 in Length: 150 mm 5.906 in Length: 250 mm 9.843 in Length: 1,000 mm 39.370 in	It links two PLC I/O connectors.	
		Control cable		SL-C1000 SL-C2000 SL-C5000 SL-C2000F	Length: 1 m 3.281 ft Length: 2 m 6.562 ft Length: 5 m 16.404 ft Length: 2 m 6.562 ft	It links the S-LINK controller and the first PLC I/O connector.	

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PLC related units

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

S-LINK I/O devices

Designation		Appearance (Note)	Model No.	Description	
1 channel I/O unit			SL-CH1	NPN type	It can be used as either an input unit or an output unit by switch selection. Hence, a sensor, limit switch, etc., is connectable when it is used as an input, and a relay, lamp, etc., is connectable when it is used as an output.
			SL-CH1-PN	PNP type	
2 channel I/O mixed unit			SL-CH21	NPN type	1 input and 1 output device are connectable.
			SL-CH21-PN	PNP type	
2 channel isolation I/O unit			SL-CH21K	NPN type	Electrically insulates output as well as main circuits. It is suitable for power supply remote control function of NEC FA personal computer FC-9821Xa/Ka.
2 channel input unit			SL-CH20	NPN type	2 input devices are connectable.
			SL-CH20-PN	PNP type	
2 channel output unit			SL-CH22	NPN type	2 output devices are connectable.
			SL-CH22-PN	PNP type	
Connector I/O unit			SL-T8J	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.
			SL-T8J-PN	8 PNP inputs	
			SL-TP8J	8 NPN outputs	
			SL-TP8J-PN	8 PNP outputs	
			SL-T16C1	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.
			SL-T16C1-PN	16 PNP inputs	
			SL-TP16C1	16 NPN outputs	
			SL-TP16C1-PN	16 PNP outputs	

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S-LINK I/O devices

Designation	Appearance (Note 1)	Model No.	Description
Sensor block	Sensor main block	SL-BMJ	It allows connection of various kinds of input devices, such as, photoelectric sensors, inductive proximity sensors, limit switches, and push buttons with the snap female connectors. Changes signals from input devices into serial signals and transmits them to the signal transmission line. One SL-BMJ can be extended by one SL-BXJ or two SL-BXs , up to 16 input points. (It can generate the ORed self-diagnosis output of all the connected devices.) (In this case, the first channel gets occupied.)
	Sensor main block	SL-BM	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. One SL-BM can be extended by three SL-BXs or one SL-BX plus one SL-BXJ , up to 16 input points. (It can generate the ORed self-diagnosis output of all connected units. In this case the first channel gets occupied.)
S-LINK direct hook-up photoelectric sensor		SL-A11	Thru-beam type 10 m 32.808 ft
		SL-A13	Thru-beam type 30 m 98.425 ft
		SL-A19	Retroreflective type with polarizing filters 0.1 to 5 m 0.328 to 16.404 ft
		SL-A12	Diffuse reflective type 700 mm 27.559 in
S-LINK direct hook-up picking sensor		SL-N15	Sensing range: 0.2 to 3 m 0.656 to 9.843 ft (0.05 to 1 m 0.164 to 3.281 ft when the switch is set to SHORT) Beam pitch: 25 mm 0.984 in Sensing height: 100 mm 3.937 in Sensing object: φ 35 mm φ 1.378 in or more opaque object It is a parts-taking verification sensor with five sensing beams and can be hooked up to the S-LINK cable without any interface. Both the emitter and the receiver are incorporated with bright orange LED job indicators that are easily visible to the operator.

Basic units

Designation		Model No.	I/O	Designation		Model No.	I/O
I/O module	Vertical type	SL-M8	8 inputs	Horizontal type	Input module	SL-M8F	8 inputs
		SL-M16	16 inputs			SL-M16F	16 inputs
		SL-M4P4	4 inputs and 4 outputs			SL-M4P4F	4 inputs and 4 outputs
	Output module	SL-MP8	8 outputs		Output module	SL-MP8F	8 outputs
		SL-MP16	16 outputs			SL-MP16F	16 outputs

These are IC type modules which enable external connection of address setting switches and operation indicators. They increase the design flexibility.

Connectors

Designation	Appearance	Model No.	Description
End hook-up connector	(Note)	SL-JE 5 pcs. per set	It must be connected at the end of the main cable. For 0.5 mm ² flat cable (Gray) Applicable hook-up pliers: SL-JPS , SL-JPD
Cable attached end connector		SL-JE-RC	When cabtyre cable is used as the main cable, the end connector can be easily connected.
Address label		SL-MA1-SET 4 sheets per set	By sticking the labels on the respective S-LINK devices, the set addresses can be confirmed at one glance. SL-MA1-SET is available in white, pink, green and gray colors, as a 4-sheet set, and is convenient when used by matching the color with that of the S-LINK exclusive flat cable (100 m 328.084 ft type).

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