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V240612

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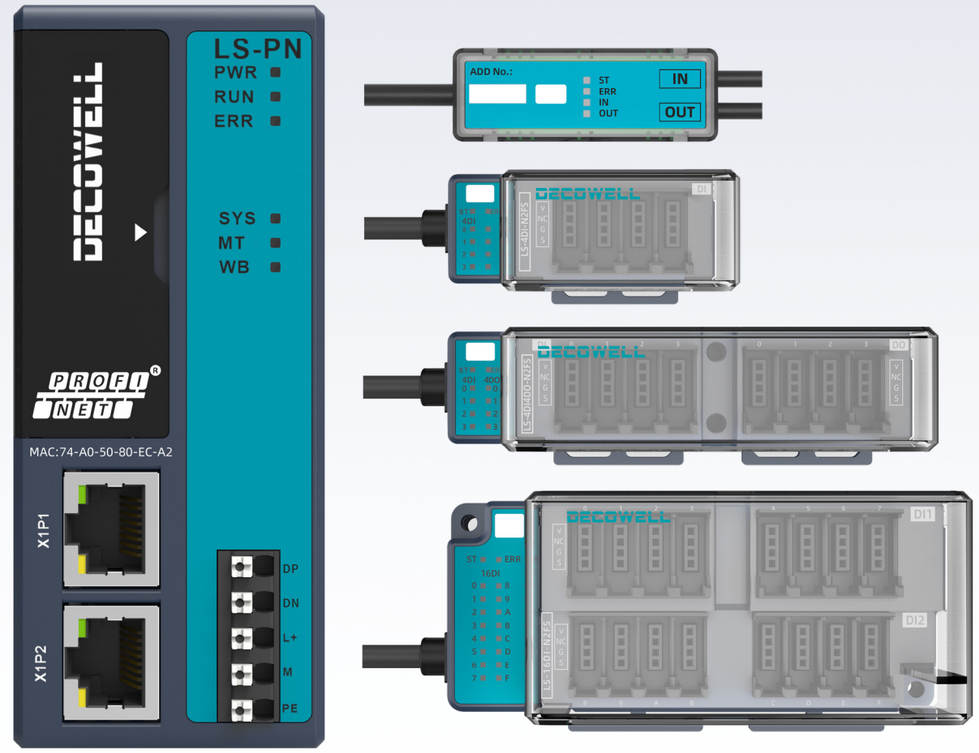
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Email:contact@njdecowell.com
Website: www.njdecowell.com

DECOWELL®

LS Series Discrete I/O

Compact size / Flexible layout

Decowell · Reliable Partner for Industrial Intelligence



DECOWELL®

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About Us

Founded in 2016, Nanjing Deckwell Automation Co. is a national high-tech enterprise integrating technology research and development, production and sales and service. The company is committed to providing industrial bus solutions with I/O modules as the core. As a leading automation service provider in China, Deckwheel Automation products are widely used in 3C, new energy, logistics, food, medicine, automotive, environmental protection, teaching and learning, rail transport, machine tools, metallurgy, chemical industry and other industries.

Headquartered in Nanjing, Jiangsu Province, the company has set up dual R&D centres in Wuxi and Nanjing, and offices in Shanghai, Shenzhen, Guangzhou, Wuhan, Suzhou, Wuxi, Qingdao, Hangzhou, Chengdu, Jinan, etc., to ensure supply and after-sales service. Deckwheel Automation has served more than 5000 customers at home and abroad, and has established business connections with many of the world's top 500 companies.

The company has passed the certification of ‘National High-tech Enterprise’, ‘Speciality, Specialty, Specialty and New’ enterprise in Jiangsu Province and Nanjing Enterprise Technology Centre, and participated in the formulation of national standards such as ‘Data Space Integration Model for Automation System and Integrated Manufacturing Enterprises’ and ‘Classification and Coding of R&D and Design Resources for Equipment Manufacturing Industry’ . At present, the company owns more than 100 intellectual property rights, and its products have passed UL certification, CE certification and product consistency certification of ETG, PI and CLPA.

In the rapid development of automation technology and increasingly fierce market competition today, Deckwheel Automation advances with the times, constantly increasing the research and development of new technologies and investment, and continues to provide customers with highly reliable industrial bus products and solutions.

5000+ homes
Number of clients

200+ size
Agent City Coverage

100+ homes
Channel Partners

10+ size
Overseas countries/areas

100+ size
intellectual property rights

2 size
R&D Centre

*The above statistics are as of 2023



Honours

- 2022 List of Enterprises Selected for the Pilot Project for Integration and Innovation of Industry, Science and Technology and Finance in Jiangbei New Area (“Lingerie Bird Programme”);
- Through the “National High-tech Enterprise”, “Jiangsu Private Science and Technology Enterprises”, “Jiangsu Province, speciality, speciality and new small and medium-sized enterprises” and other honourable titles;
- The products have passed UL certification and CE certification;
- Certified for product conformance by the three major associations, ETG, PI, and CLPA;
- Passed ISO9001, ISO14001, ISO45001 three systems certification;
- Various intellectual property rights100+



CE Certification



UL Certification | IS09001 | IS014001 | IS045001

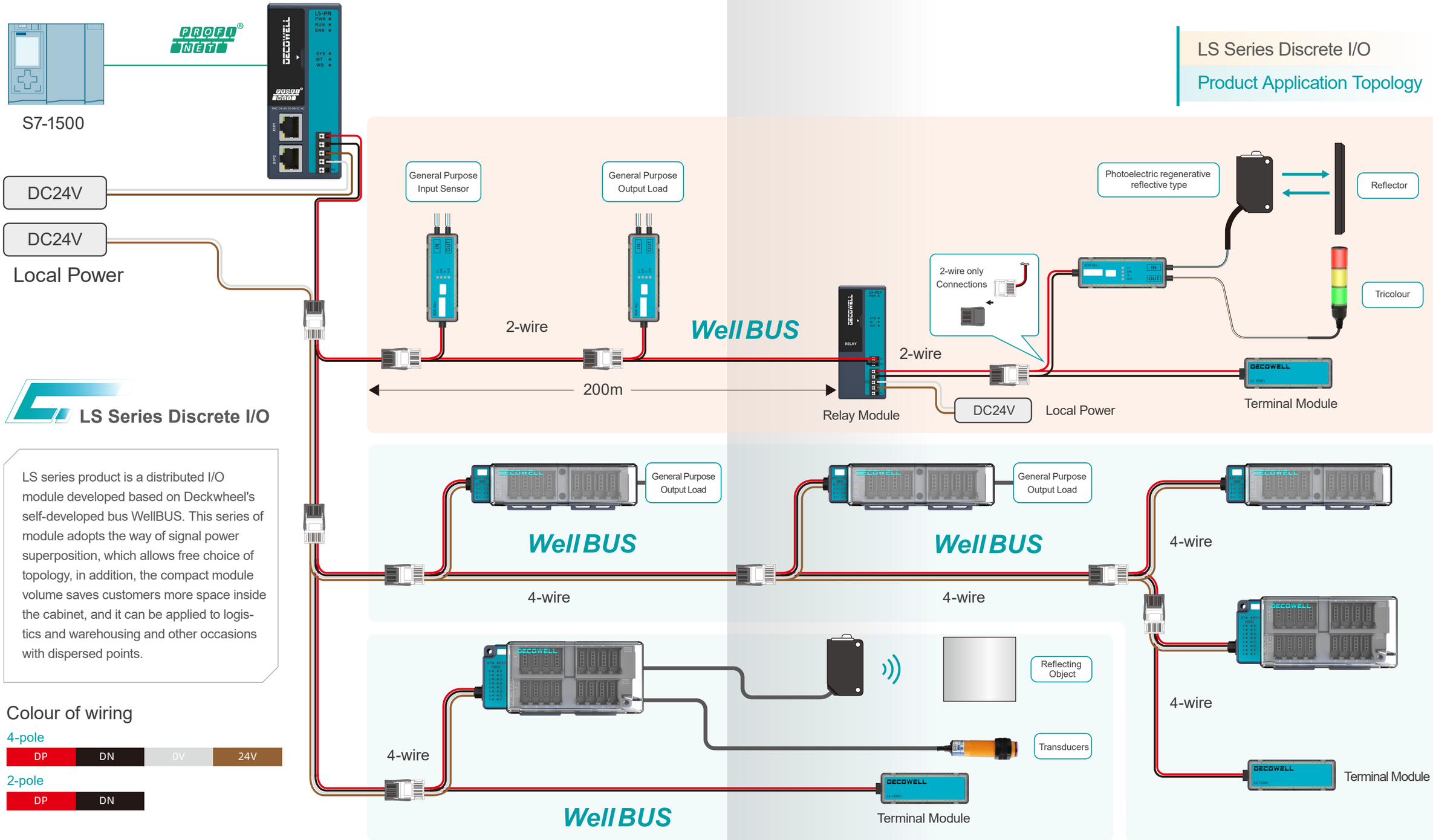


Product conformance certified by ETG, PI, CLPA



Patent Certification

LS Series Discrete I/O
Product Application Topology



LS Series Discrete I/O

LS series product is a distributed I/O module developed based on Deckwheel's self-developed bus WellBUS. This series of module adopts the way of signal power superposition, which allows free choice of topology, in addition, the compact module volume saves customers more space inside the cabinet, and it can be applied to logistics and warehousing and other occasions with dispersed points.

Colour of wiring

4-pole

DP	DN	0V	24V

2-pole

DP	DN

Product Naming Rules

LS-8DI8DO-P1TS-X

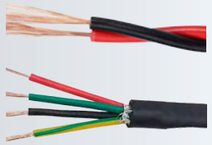
- LS Series Name
- Number of input channels
- Digital Input
- Number of output channels
- Digital Output
- Channel Type
  - N:NPN
  - P:PNP
  - R:Relay
- Non-standard number: default blank
- Interface type (reserved)
  - s:pull-through
- Connection Method
  - T:2-wire
  - F:4-wire
- Terminal Type
  - 1:Trinity Terminal
  - 2:E-CON




For more solutions please visit
www.welllinkio.com




Product Features



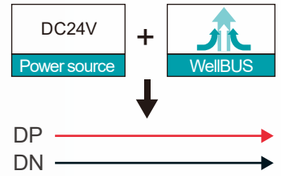
01.Free choice of communication cables

Universal rubber insulated cables can be used. For self-selected cables, cables of not less than 0.5 mm² should be used, and 0.5 mm² twin wires are recommended, e.g. RVS, RVP, RVVP.

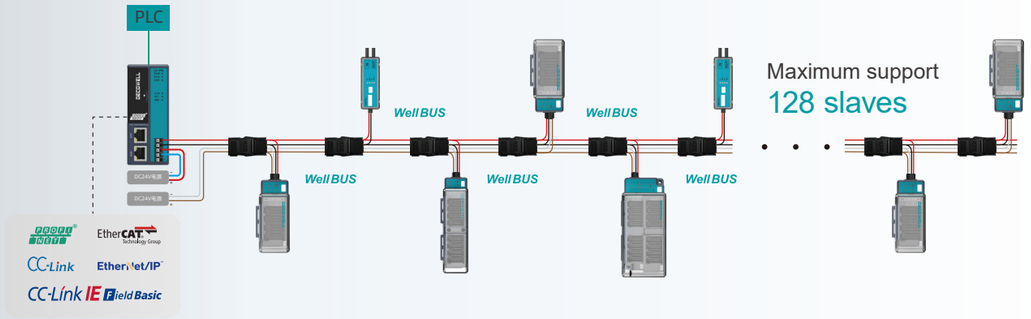
Note: It is recommended to use our 4-core cable, which is more convenient when connecting and installing.

02.two-core transmission

WellBUS uses two-core wire transmission with overlapping power and signal, which allows for signal transmission while power is being supplied.



03.Reliable, easy to use and powerful



- Single master supports up to 128 slaves
- Communication distance up to 200 metres
- Single master with up to 512 inputs + 512 outputs
- Wire break detection, short circuit protection
- Minimum scanning period 2ms
- Short circuit protection, power overvoltage and undervoltage protection
- Upper unit configuration software: support monitoring slave status; slave addressing; slave punching

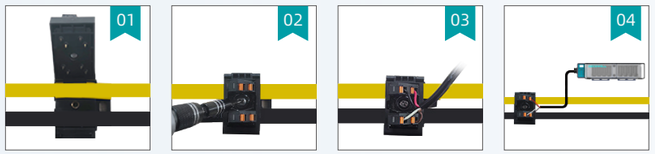
04.Simple connection, plug and play

4-CORE FLAT CABLE WIRING



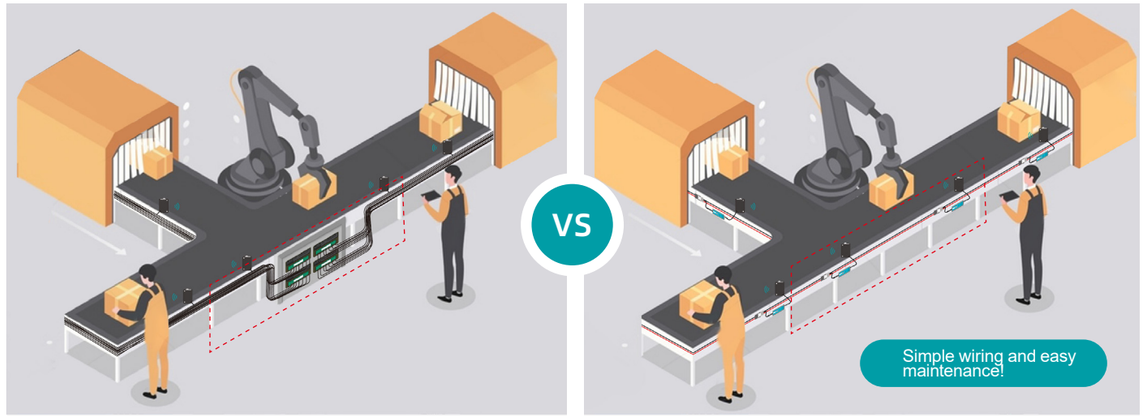
1. Use the special no-strip connector and put the cable into the corresponding slot.
2. Use the special crimping tool to crimp the non-stripping connector.
3. Push both ends until the connector locks.
4. Wiring is complete.

2-CORE SHEATHED CABLE



1. Use the special splitter box and put the cables into the corresponding cable slot.
2. Use a screwdriver to tighten the splitter box.
3. Connect the slave lead into the splitter box.
4. Wiring is completed.

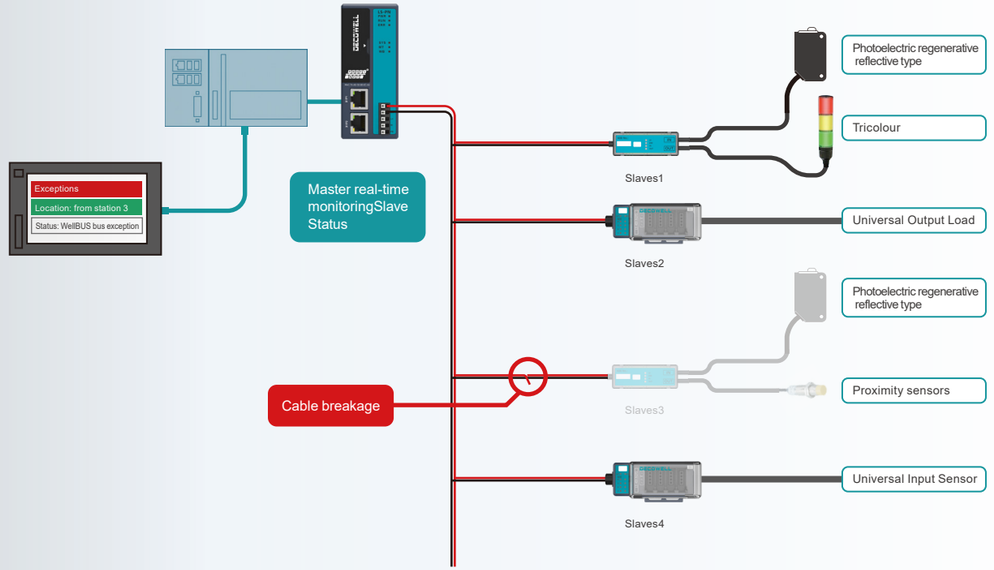
05.Simple wiring



Traditional I/O	WellBUS Module
Complicated and messy wiring layout is not aesthetically pleasing ✗	Simple wiring, neat and clear ✓
Long installation and wiring time ✗	Two-wire transmission, virtually eliminating wiring time ✓
Not easy to maintain ✗	Easy follow-up maintenance ✓

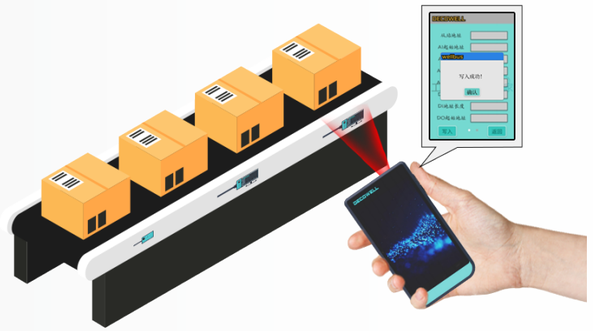
06.Slave status detection

When an abnormality occurs on the WellBUS bus, such as a broken communication cable, the master can monitor the current slave loss and quickly locate the faulty slave module, facilitating on-site problem troubleshooting and saving time.

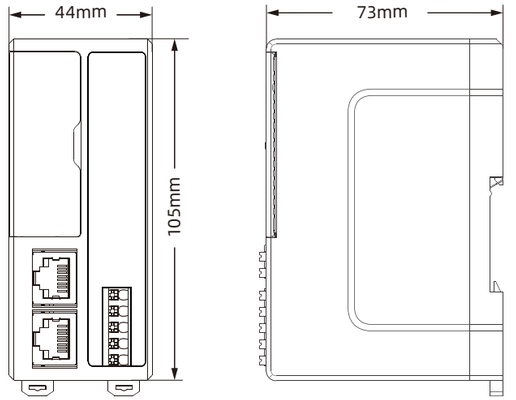


07.With infrared handheld devices

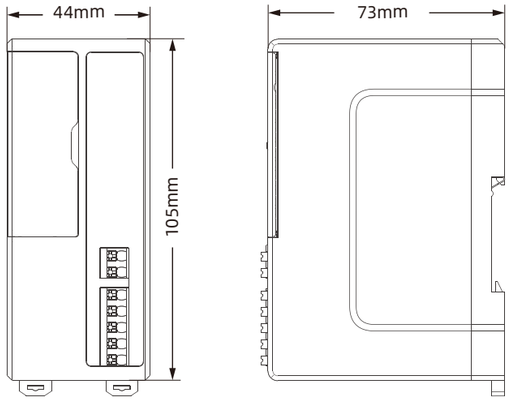
Equipped with a handheld device, within 10cm by infrared scanning to read the slave parameters, as well as write the slave station number and IO input/output address, to facilitate the debugging of field personnel.



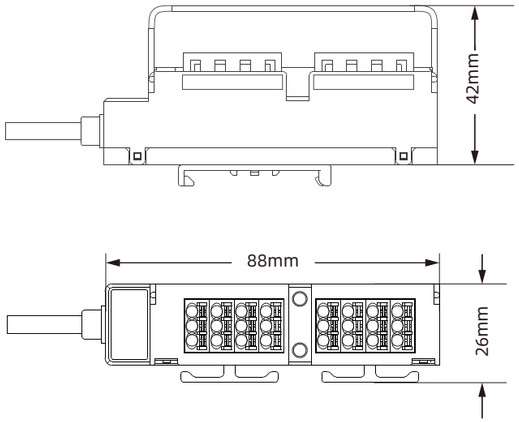
Product Size



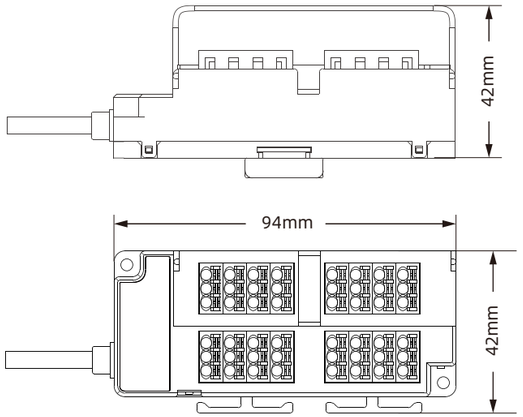
Adapter Size



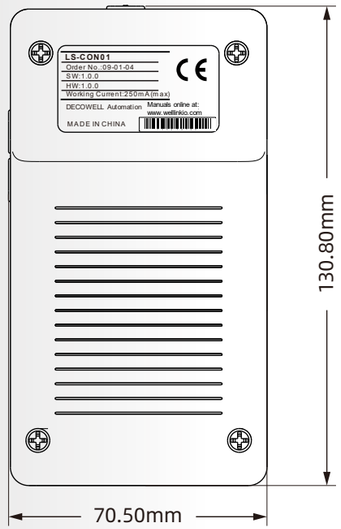
Repeater Size

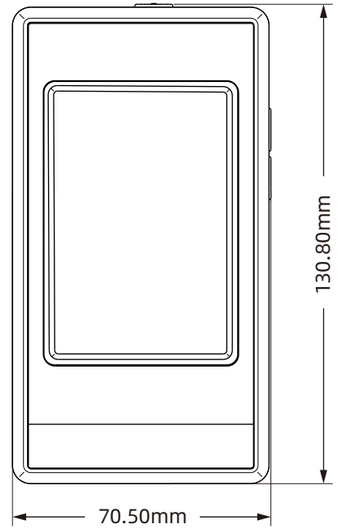


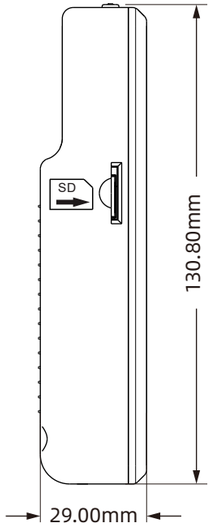
8-point slave size



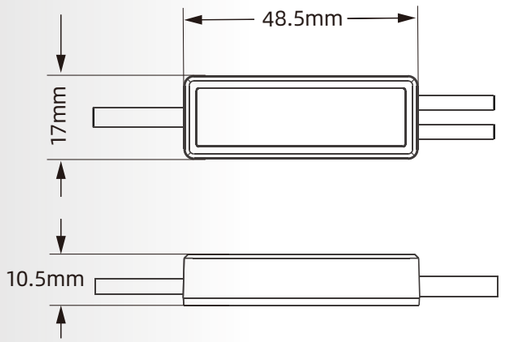
16-point slave size



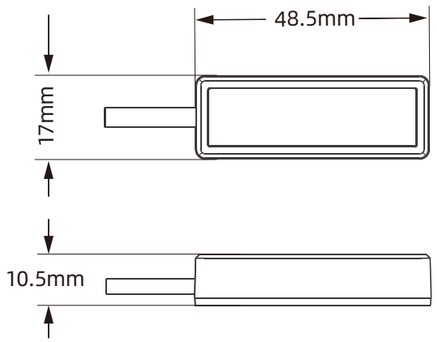




Handheld terminal size



2-point slave size



Terminal Size

Indicator light meaning

Indicator light	State of affairs	Hidden meaning
PWR	Bright	System power supply is normal
RUN	Bright	Fieldbus communication is normal
ERR	Bright	Not connected to the fieldbus
	Vague	There is no connection to the I/O controller, or the preset configuration does not match the actual configuration of the adapter, or the parameters in the I/O module are misconfigured, or there are diagnostic errors
SYS	1Hz vague	I/O module operates without errors
	Go out	I/O module mismatch with adapter
	1 flashing 1 long off	I/O module communication error
	2 flashing 1 long off	I/O module parameter configuration error
	Faster flashing frequency	I/O module unplugged
MT	Bright	Manual restoration of factory values is effective
	Ultra-high frequency flicker	Firmware Upgrade
WB	Bright	The WellBUS bus is working
	Go out	WellBUS bus abnormality

Wiring Diagram

NPN Input Circuit

- Rated input voltage: 24V
- Maximum opening and closing current: 2.4mA
- ON current: 2.4mA
- OFF current: 0mA
- ON voltage: less than 12V
- OFF voltage: more than 12V
- 24V allowable current: 100mA

PNP Input Circuit

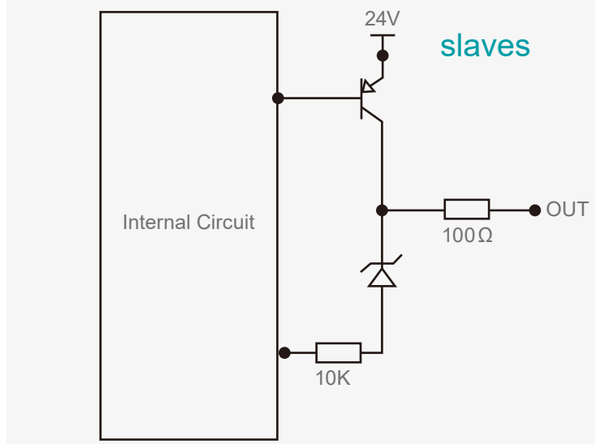
- Rated input voltage: 24V
- Maximum opening and closing current: 2.4mA
- ON current: 2.4mA
- OFF current: 0mA
- ON voltage: more than 12V
- OFF voltage: less than 12V
- 24V allowable current: 100mA

NPN Output Circuit

- Withstanding voltage: 30V
- Maximum ON current:
  100mA (2 channels)
  500mA (8/16 channels)
- 24V allowable current: 100mA

PNP Output Circuit

- Withstanding voltage: 30V
- Maximum ON current:
  100mA (2 channels)
  500mA (8/16 channels)
- 24V allowable current: 100mA



Product Parameter Adapter(Other communication protocols in the pipeline)

Product Model	LS-PN	LS-EC
		
Supported Protocols	PROFINET	EtherCAT
Cable	4p*16AWG	4p*16AWG
Input Voltage	24V ±20%	24V ±20%
Amps	5A	5A
Power Wastage	5W	5W
Power Supply	24V ±20%	24V ±20%
WellBUS Bus Rate	27.7kb/s	27.7kb/s
Transmission Distance	200m	200m
Maximum Number of Slaves	128 size	128 size
Maximum Output Power	120W	120W
Type of Monitoring	Temperature monitoring, system power monitoring	Temperature monitoring, system power monitoring
Operating Temperature	-20~55℃	-20~55℃
Storage Temperature	-25~75℃	-25~75℃
Relative Humidity	0 to 90% RH, no condensation	0 to 90% RH, no condensation
Operating Environment	No corrosive gases	No corrosive gases
Height of use	Under 2km	Under 2km
Sizes(mm)	73×105×44mm	73×105×44mm
Part Numbers	09-01-01	09-01-07

Product Parameter Adapter

Product Model	LS-EI



Supported Protocols	EtherNET/IP
Cable	4p*16AWG
Input Voltage	24V ±20%
Amps	5A
Power Wastage	5W
Power Supply	24V ±20%
WellBUS Bus Rate	27.7kb/s
Transmission Distance	200m
Maximum Number of Slaves	128 size
Maximum Output Power	120W
Type of Monitoring	Temperature monitoring, system power monitoring
Operating Temperature	-20~55℃
Storage Temperature	-25~75℃
Relative Humidity	0 to 90% RH, no condensation
Operating Environment	No corrosive gases
Height of use	Under 2km
Sizes(mm)	73×105×44mm
Part Numbers	09-01-08

Repeaters

Product Model	LS-RLY



Cable	4p*16AWG
Input Voltage	24V ±20%
Amps	5A
Power Wastage	5W
Power Supply	24V ±20%
WellBUS Bus Rate	27.7kb/s
Transmission Distance	200m
Maximum Number of Slaves	128 size
Maximum Output Power	120W
Type of Monitoring	Temperature monitoring, system power monitoring
Operating Temperature	-20~55℃
Storage Temperature	-25~75℃
Relative Humidity	0 to 90% RH, no condensation
Operating Environment	No corrosive gases
Height of Use	Under 2km
Sizes(mm)	73×105×44mm
Part Numbers	09-01-02

Slave stations (other models in the pipeline)

Product Model		LS-1DI1DO-N1TS	LS-1DI1DO-P1TS
			
Number of I/O points	Importation	1	1
	Exports	1	1
Signal Type		NPN	PNP
Output Input Specifications		DC Input/Tr Output	DC Input/Tr Output
Maximum output current of single channel(mA)		100mA	100mA
Response Time		Minimum 2mS	Minimum 2mS
Grout		2-Wire, Non-Isolated	2-Wire, Non-Isolated
Load Wiring Method		reserved line	reserved line
Installation		screw	screw
Operating Temperature		-20~55℃	-20~55℃
Storage Temperature		-25~75℃	-25~75℃
Relative Humidity		0 to 90% RH, no condensation	0 to 90% RH, no condensation
Operating Environment		No corrosive gases	No corrosive gases
Height of Use		Under 2km	Under 2km
Sizes(mm)		48.5×17×10.5mm	48.5×17×10.5mm
Part Numbers		09-02-01	09-02-02

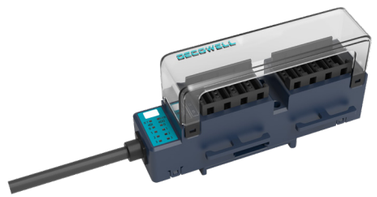
Product Model		LS-2DI-N1TS	LS-2DI-P1TS
			
Number of I/O points	Importation	2	2
	Exports	0	0
Signal Type		NPN	PNP
Output Input Specifications		Tr input	Tr input
Maximum output current of single channel(mA)		/	/
Response Time		Minimum 2mS	Minimum 2mS
Grout		2-Wire, Non-Isolated	2-Wire, Non-Isolated
Load Wiring Method		reserved line	reserved line
Installation		screw	screw
Operating Temperature		-20~55℃	-20~55℃
Storage Temperature		-25~75℃	-25~75℃
Relative Humidity		0 to 90% RH, no condensation	0 to 90% RH, no condensation
Operating Environment		No corrosive gases	No corrosive gases
Height of Use		Under 2km	Under 2km
Sizes(mm)		48.5×17×10.5mm	48.5×17×10.5mm
Part Numbers		09-02-03	09-02-04

Slaves

Product Model		LS-2DO-N1TS	LS-2DO-P1TS
			
Number of I/O points	Importation	0	0
	Exports	2	2
Signal Type		NPN	PNP
Output Input Specifications		Tr output	Tr output
Maximum output current of single channel(mA)		100mA	100mA
Response Time		Minimum 2mS	Minimum 2mS
Grout		2-Wire, Non-Isolated	2-Wire, Non-Isolated
Load Wiring Method		reserved line	reserved line
Installation		screw	screw
Operating Temperature		-20~55℃	-20~55℃
Storage Temperature		-25~75℃	-25~75℃
Relative Humidity		0 to 90% RH, no condensation	0 to 90% RH, no condensation
Operating Environment		No corrosive gases	No corrosive gases
Height of Use		Under 2km	Under 2km
Sizes(mm)		48.5×17×10.5mm	48.5×17×10.5mm
Part Numbers		09-02-05	09-02-06

Product Model		LS-4DI4DO-N1FS	LS-4DI4DO-P1FS
			
Number of I/O points	Importation	4	4
	Exports	4	4
Signal Type		NPN	PNP
Output Input Specifications		DC Input/Tr Output	DC Input/Tr Output
Maximum output current of single channel(mA)		500mA	500mA
Response Time		Minimum 2mS	Minimum 2mS
Grout		4-Wire, Isolated	4-Wire, Isolated
Load Wiring Method		Holy Trinity	Holy Trinity
Installation		Screw fixing, rail mounting	Screw fixing, rail mounting
Operating Temperature		-20~55℃	-20~55℃
Storage Temperature		-25~75℃	-25~75℃
Relative Humidity		0 to 90% RH, no condensation	0 to 90% RH, no condensation
Operating Environment		No corrosive gases	No corrosive gases
Height of Use		Under 2km	Under 2km
Sizes(mm)		88×42×26mm	88×42×26mm
Part Numbers		09-02-09	09-02-10

Slaves

Product Model		LS-4DI4DO-N2FS	LS-4DI4DO-P2FS
			
Number of I/O points	Importation	4	4
	Exports	4	4
Signal Type		NPN	PNP
Output Input Specifications		DC Input/Tr Output	DC Input/Tr Output
Maximum output current of single channel(mA)		500mA	500mA
Response Time		Minimum 2mS	Minimum 2mS
Grout		4-Wire, Isolated	4-Wire, Isolated
Load Wiring Method		E-CON	E-CON
Installation		Screw fixing, rail mounting	Screw fixing, rail mounting
Operating Temperature		-20~55℃	-20~55℃
Storage Temperature		-25~75℃	-25~75℃
Relative Humidity		0 to 90% RH, no condensation	0 to 90% RH, no condensation
Operating Environment		No corrosive gases	No corrosive gases
Height of Use		Under 2km	Under 2km
Sizes(mm)		88×42×26mm	88×42×26mm
Part Numbers		09-03-03	09-03-04

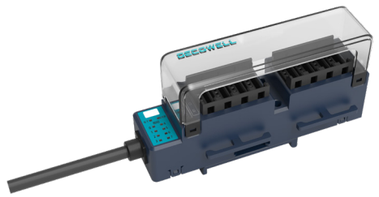
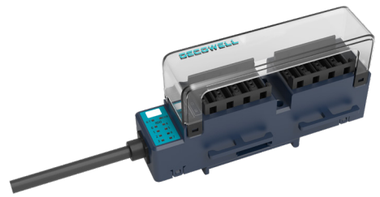
Product Model		LS-8DI-N1FS	LS-8DI-P1FS
			
Number of I/O points	Importation	8	8
	Exports	0	0
Signal Type		NPN	PNP
Output Input Specifications		DC Input /Tr Output	DC Input /Tr Output
Maximum output current of single channel(mA)		500mA	500mA
Response Time		Minimum 2mS	Minimum 2mS
Grout		4-Wire, Isolated	4-Wire, Isolated
Load Wiring Method		Holy Trinity	Holy Trinity
Installation		Screw fixing, rail mounting	Screw fixing, rail mounting
Operating Temperature		-20~55℃	-20~55℃
Storage Temperature		-25~75℃	-25~75℃
Relative Humidity		0 to 90% RH, no condensation	0 to 90% RH, no condensation
Operating Environment		No corrosive gases	No corrosive gases
Height of Use		Under 2km	Under 2km
Sizes(mm)		88×42×26mm	88×42×26mm
Part Numbers		09-02-11	09-02-12

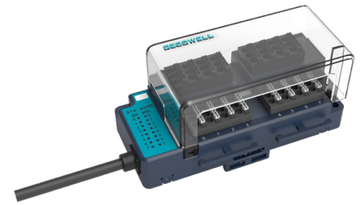
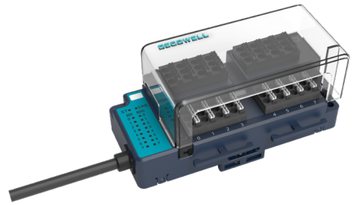
Slaves

Product Model		LS-8DO-N1FS	LS-8DO-P1FS
			
Number of I/O points	Importation	0	0
	Exports	8	8
Signal Type		NPN	PNP
Output Input Specifications		DC Input /Tr Output	DC Input /Tr Output
Maximum output current of single channel(mA)		500mA	500mA
Response Time		Minimum 2mS	Minimum 2mS
Grout		4-Wire, Isolated	4-Wire, Isolated
Load Wiring Method		Holy Trinity	Holy Trinity
Installation		Screw fixing, rail mounting	Screw fixing, rail mounting
Operating Temperature		-20~55℃	-20~55℃
Storage Temperature		-25~75℃	-25~75℃
Relative Humidity		0 to 90% RH, no condensation	0 to 90% RH, no condensation
Operating Environment		No corrosive gases	No corrosive gases
Height of Use		Under 2km	Under 2km
Sizes(mm)		88×26×42mm	94×42×45mm
Part Numbers		09-02-13	09-02-14

Product Model		LS-8DI-N2FS	LS-8DI-P2FS
			
Number of I/O points	Importation	8	8
	Exports	0	0
Signal Type		NPN	PNP
Output Input Specifications		DC Input /Tr Output	DC Input /Tr Output
Maximum output current of single channel(mA)		500mA	500mA
Response Time		Minimum 2mS	Minimum 2mS
Grout		4-Wire, Isolated	4-Wire, Isolated
Load Wiring Method		E-CON	E-CON
Installation		Screw fixing, rail mounting	Screw fixing, rail mounting
Operating Temperature		-20~55℃	-20~55℃
Storage Temperature		-25~75℃	-25~75℃
Relative Humidity		0 to 90% RH, no condensation	0 to 90% RH, no condensation
Operating Environment		No corrosive gases	No corrosive gases
Height of Use		Under 2km	Under 2km
Sizes(mm)		88×26×42mm	88×26×42mm
Part Numbers		09-03-05	09-03-06

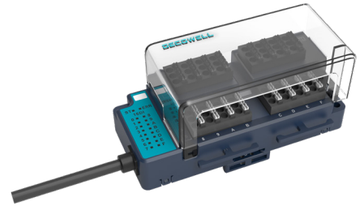
Slaves

Product Model		LS-8DO-N2FS	LS-8DO-P2FS
			
Number of I/O points	Importation	0	0
	Exports	8	8
Signal Type		NPN	PNP
Output Input Specifications		DC Input /Tr Output	DC Input /Tr Output
Maximum output current of single channel(mA)		500mA	500mA
Response Time		Minimum 2mS	Minimum 2mS
Grout		4-Wire, Isolated	4-Wire, Isolated
Load Wiring Method		E-CON	E-CON
Installation		Screw fixing, rail mounting	Screw fixing, rail mounting
Operating Temperature		-20~55℃	-20~55℃
Storage Temperature		-25~75℃	-25~75℃
Relative Humidity		0 to 90% RH, no condensation	0 to 90% RH, no condensation
Operating Environment		No corrosive gases	No corrosive gases
Height of Use		Under 2km	Under 2km
Sizes(mm)		88×26×42mm	88×26×42mm
Part Numbers		09-03-07	09-03-08

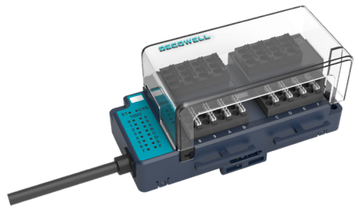
Product Model		LS-8DI8DO-N1FS	LS-8DI8DO-P1FS
			
Number of I/O points	Importation	8	8
	Exports	8	8
Signal Type		NPN	PNP
Output Input Specifications		DC Input/Tr Output	DC Input/Tr Output
Maximum output current of single channel(mA)		500mA	500mA
Response Time		Minimum 2mS	Minimum 2mS
Grout		4-Wire, Isolated	4-Wire, Isolated
Load Wiring Method		Holy Trinity	Holy Trinity
Installation		Screw fixing, rail mounting	Screw fixing, rail mounting
Operating Temperature		-20~55℃	-20~55℃
Storage Temperature		-25~75℃	-25~75℃
Relative Humidity		0 to 90% RH, no condensation	0 to 90% RH, no condensation
Operating Environment		No corrosive gases	No corrosive gases
Height of Use		Under 2km	Under 2km
Sizes(mm)		94×42×42mm	94×42×42mm
Part Numbers		09-02-15	09-02-16

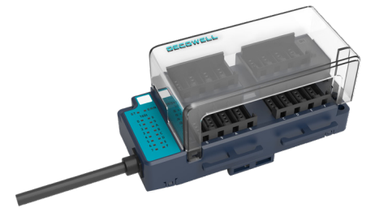
Slaves

Product Model		LS-8DI8DO-N2FS	LS-8DI8DO-P2FS
			
Number of I/O points	Importation	8	8
	Exports	8	8
Signal Type		NPN	PNP
Output Input Specifications		DC Input/Tr Output	DC Input/Tr Output
Maximum output current of single channel(mA)		500mA	500mA
Response Time		Minimum 2mS	Minimum 2mS
Grout		4-Wire, Isolated	4-Wire, Isolated
Load Wiring Method		E-CON	E-CON
Installation		Screw fixing, rail mounting	Screw fixing, rail mounting
Operating Temperature		-20~55℃	-20~55℃
Storage Temperature		-25~75℃	-25~75℃
Relative Humidity		0 to 90% RH, no condensation	0 to 90% RH, no condensation
Operating Environment		No corrosive gases	No corrosive gases
Height of Use		Under 2km	Under 2km
Sizes(mm)		94×42×42mm	94×42×42mm
Part Numbers		09-03-09	09-03-10

Product Model		LS-16DI-N1FS	LS-16DI-P1FS
			
Number of I/O points	Importation	16	16
	Exports	0	0
Signal Type		NPN	PNP
Output Input Specifications		DC Input/Tr Output	DC Input/Tr Output
Maximum output current of single channel(mA)		500mA	500mA
Response Time		Minimum 2mS	Minimum 2mS
Grout		4-Wire, Isolated	4-Wire, Isolated
Load Wiring Method		Holy Trinity	Holy Trinity
Installation		Screw fixing, rail mounting	Screw fixing, rail mounting
Operating Temperature		-20~55℃	-20~55℃
Storage Temperature		-25~75℃	-25~75℃
Relative Humidity		0 to 90% RH, no condensation	0 to 90% RH, no condensation
Operating Environment		No corrosive gases	No corrosive gases
Height of Use		Under 2km	Under 2km
Sizes(mm)		94×42×42mm	94×42×42mm
Part Numbers		09-02-17	09-02-18

Slaves

Product Model		LS-16DO-N1FS	LS-16DO-P1FS
			
Number of I/O points	Importation	0	0
	Exports	16	16
Signal Type		NPN	PNP
Output Input Specifications		DC Input/Tr Output	DC Input/Tr Output
Maximum output current of single channel(mA)		500mA	500mA
Response Time		Minimum 2mS	Minimum 2mS
Grout		4-Wire, Isolated	4-Wire, Isolated
Load Wiring Method		Holy Trinity	E-CON
Installation		Screw fixing, rail mounting	Screw fixing, rail mounting
Operating Temperature		-20~55℃	-20~55℃
Storage Temperature		-25~75℃	-25~75℃
Relative Humidity		0 to 90% RH, no condensation	0 to 90% RH, no condensation
Operating Environment		No corrosive gases	No corrosive gases
Height of Use		Under 2km	Under 2km
Sizes(mm)		94×42×42mm	94×42×42mm
Part Numbers		09-02-19	09-02-20

Product Model		LS-16DI-N2FS	LS-16DI-P2FS
			
Number of I/O points	Importation	16	16
	Exports	0	0
Signal Type		NPN	PNP
Output Input Specifications		DC Input/Tr Output	DC Input/Tr Output
Maximum output current of single channel(mA)		500mA	500mA
Response Time		Minimum 2mS	Minimum 2mS
Grout		4-Wire, Isolated	4-Wire, Isolated
Load Wiring Method		E-CON	E-CON
Installation		Screw fixing, rail mounting	Screw fixing, rail mounting
Operating Temperature		-20~55℃	-20~55℃
Storage Temperature		-25~75℃	-25~75℃
Relative Humidity		0 to 90% RH, no condensation	0 to 90% RH, no condensation
Operating Environment		No corrosive gases	No corrosive gases
Height of Use		Under 2km	Under 2km
Sizes(mm)		94×42×42mm	94×42×42mm
Part Numbers		09-03-11	09-03-12

Slaves

Product Model		LS-16DO-N2FS	LS-16DO-P2FS
			
Number of I/O points	Importation	0	0
	Exports	16	16
Signal Type		NPN	PNP
Output Input Specifications		DC Input/Tr Output	DC Input/Tr Output
Maximum output current of single channel(mA)		500mA	500mA
Response Time		Minimum 2mS	Minimum 2mS
Grout		4-Wire, Isolated	4-Wire, Isolated
Load Wiring Method		E-CON	E-CON
Installation		Screw fixing, rail mounting	Screw fixing, rail mounting
Operating Temperature		-20~55℃	-20~55℃
Storage Temperature		-25~75℃	-25~75℃
Relative Humidity		0 to 90% RH, no condensation	0 to 90% RH, no condensation
Operating Environment		No corrosive gases	No corrosive gases
Height of Use		Under 2km	Under 2km
Sizes(mm)		94×42×42mm	94×42×42mm
Part Numbers		09-03-13	09-03-14

Product Model		LS-TER01
		
Number of I/O points	Importation	/
	Exports	/
Output Input Specifications		/
Signal Type		/
Maximum output current of single channel(mA)		/
I/O Wiring		reserved line
Load Wiring Method		/
Installation		screw
Response Time		/
Operating Temperature		-20~55℃
Storage Temperature		-25~75℃
Relative Humidity		0 to 90% RH, no condensation
Operating Environment		No corrosive gases
Height of Use		Under 2km
Sizes(mm)		48.5×17×10.5mm
Part Numbers		09-01-03

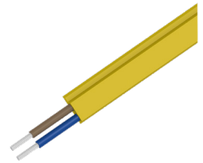
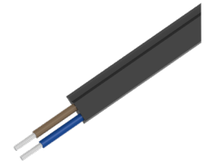
Accessories Manual Addresser

Product Model	LS-CON01
	
Operating Temperature	-10~60℃
Storage Temperature	-25~75℃
Relative Humidity	10 to 90% RH, no condensation
Operating Environment	No corrosive gases
Sizes(mm)	70.5×130.8×29mm
Part Numbers	09-01-04

Accessories Cables/Connectors

Product Model	CN-W	CN-B	CN-XM
			
Product Description	4P E-CON White Broken Wire Clip, 1.1~1.4Wire Diameter Applicable (Connector)	4P E-CON Black Breakout Clip, 2.2~2.5Wire Diameter Applicable (Connector)	4-core flat cable (X metres), 16AWG(1.25sq) x 4 cores Insulation OD φ2.5±0.1mm (cable)
Part Numbers	09-04-01	09-04-02	09-04-03

Accessories Cables/Connectors

Product Model	AS-FX	AS-Y-XM	AS-B-XM
			
Product Description	4-pole breakout box for splitting European-style communication cables from power cables	2 cores sheathed cable (Xm), conductor 1.5sq x 2 cores, insulation O.D. φ2.5±0.1mm (TPE, blue, brown), jacket colour: yellow (PVC)les	2 cores sheathed cable (Xm), conductor 1.5sq x 2 cores, insulation O.D. φ2.5±0.1mm (TPE, blue, brown), jacket colour: black (PVC)
Part Numbers	09-05-01	09-05-02	09-05-03

Product Model	LS-BS01	LS-BS02	CN-CP06
			
Product Description	2-channel module fixing clips to enable modules to be screwed in place	8/16 channel module fixing clips to enable rail mounting of modules	Crimper
Part Numbers	09-06-01	09-06-02	09-04-04

Product Model	Product Appearance	Product Description	Colour of gland	Conductor Specifications	Cable Outside Diameter	Part Numbers
KD-4W-0.8K -A24		4 位 E-CON Quick Connect Plugs	Violet	AWG24-26 0.13-0.21mm²	Φ0.6-0.8	10-00-00
KD-4W-1.0K -A24		4 位 E-CON Quick Connect Plugs	Red	AWG24-26 0.13-0.21mm²	Φ0.8-1.0	10-00-01
KD-4W-1.6K -A22		4 位 E-CON Quick Connect Plugs	Yellow	AWG20-22 0.32-0.50mm²	Φ1.2-1.6	10-00-02
KD-4W-2.0K -A22		4 位 E-CON Quick Connect Plugs	Grey	AWG20-22 0.32-0.50mm²	Φ1.6-2.0	10-00-03

Product Model Checklist

Pseudolaric acid	Product Model	Specification Description	Part Numbers
Master Station	LS-PN	PROFINET Bus Adapter	09-01-01
	LS-EC	EtherCAT Bus Adapter	09-01-07
	LS-EI	EtherNET IP Bus Adapter	09-01-08

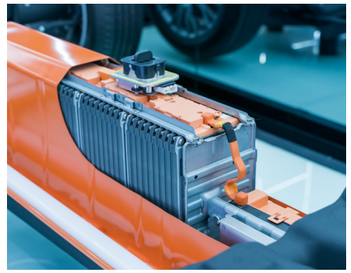
Pseudolaric acid	Product Model	Specification Description	Part Numbers
Slaves	LS-1DI1DO-N1TS	1 channel digital input (NPN), 1 channel digital output (NPN), 2-wire, lead wiring	09-02-01
	LS-1DI1DO-P1TS	1-channel digital input (PNP), 1-channel digital output (PNP), 2-wire, lead wiring	09-02-02
	LS-2DI-N1TS	2-channel digital input (NPN), 2-wire, lead wiring	09-02-03
	LS-2DI-P1TS	2-channel digital input (PNP), 2-wire, lead wiring	09-02-04
	LS-2DO-N1TS	2-channel digital output (NPN), 2-wire, lead wired	09-02-05
	LS-2DO-P1TS	2-channel digital output (PNP), 2-wire, lead wired	09-02-06
	LS-4DI4DO-N1FS	4-channel digital input (NPN), 4-channel digital output (NPN), 4-wire, three-position Euro terminal (tool-free)	09-02-09
	LS-4DI4DO-P1FS	4-channel digital input (PNP), 4-channel digital output (PNP), 4-wire, three-position Euro terminal (tool-free)	09-02-10
	LS-4DI4DO-N2FS	4-channel digital input (NPN), 4-channel digital output (NPN), 4-wire, E-CON connector	09-03-03
	LS-4DI4DO-P2FS	4-channel digital input (PNP), 4-channel digital output (PNP), 4-wire, E-CON connector	09-03-04
	LS-8DI8DO-N1FS	8-channel digital input (NPN), 8-channel digital output (NPN), 4-wire, t hree-position Euro terminal (tool-free)	09-02-15
	LS-8DI8DO-P1FS	8-channel digital input (PNP), 8-channel digital output (PNP), 4-wire, three-position Euro terminal (tool-free)	09-02-16
	LS-8DI8DO-N2FS	8-channel digital input (NPN), 8-channel digital output (NPN), 4-wire, E-CON connector	09-03-09
	LS-8DI8DO-P2FS	8-channel digital input (PNP), 8-channel digital output (PNP), 4-wire, E-CON connector	09-03-10
	LS-8DI-N1FS	8-channel digital input (NPN), 4-wire, 3-position Euro terminal (tool-free)	09-02-11
	LS-8DI-P1FS	8-channel digital input (PNP), 4-wire, three-position Euro terminal (tool-free)	09-02-12

Pseudolaric acid	Product Model	Specification Description	Part Numbers
Slaves	LS-8DO-N1FS	8-channel digital output (NPN), 4-wire, three-position Euro terminal (tool-free)	09-02-13
	LS-8DO-P1FS	8-channel digital output (PNP), 4-wire, three-position Euro terminal (tool-free)	09-02-14
	LS-8DI-N2FS	8-channel digital input (NPN), 4-wire, E-CON connector	09-03-05
	LS-8DI-P2FS	8-channel digital input (PNP), 4-wire, E-CON connector	09-03-06
	LS-8DO-N2FS	8-channel digital output (NPN), 4-wire, E-CON connector	09-03-07
	LS-8DO-P2FS	8-channel digital output (PNP), 4-wire, E-CON connector	09-03-08
	LS-16DI-N1FS	16 channels of digital inputs (NPN), 4-wire, three-position Euro terminal (tool-free)	09-02-17
	LS-16DI-P1FS	16 channels of digital inputs (PNP), 4-wire, three-position Euro terminal (tool-free)	09-02-18
	LS-16DO-N1FS	16-channel digital output (NPN), 4-wire, three-position Euro terminal (tool-free)	09-02-19
	LS-16DO-P1FS	16-channel digital output (PNP), 4-wire, three-position Euro terminal (tool-free)	09-02-20
	LS-16DI-N2FS	16-channel digital input (NPN), 4-wire, E-CON connector	09-03-11
	LS-16DI-P2FS	16-channel digital input (PNP), 4-wire, E-CON connector	09-03-12
	LS-16DO-N2FS	16-channel digital output (NPN), 4-wire, E-CON connector	09-03-13
	LS-16DO-P2FS	16-channel digital output (PNP), 4-wire, E-CON connector	09-03-14

Pseudolaric acid	Product Model	Specification Description	Part Numbers
Auxiliary Modules	LS-RLY	Repeaters	09-01-02
	LS-TER01	End Waveform Shaper	09-01-03

Product Application Industry

Decowell Automation's various industrial communication products can be widely used in new energy, 3C electronics, logistics, automotive, semiconductor, food, medicine, packaging, railway Transportation, machine tools, home appliances, laser,equipment manufacturing, petrochemical, iron and steel, electric power, water conservancy, environmental protection, construction and other fields, won the favour of the majority of customers!



New Energy Industry



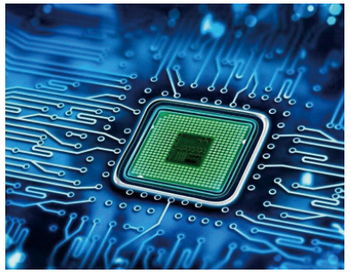
3C Electronics Industry



logistics Industry



Automotive Manufacturing Industry



Semiconductor Industry



Food Industry



Pharmaceutical Industry



Packaging Industry



Power Industry

Our Services

Sales Support

Decowell automation sales engineers have received professional technical training, with extensive product knowledge and a wealth of experience in industry applications, according to customer site requirements to quickly develop solutions.

After-Sales Service

Decowell Automation provides perfect after-sales service, our professional after-sales personnel can promptly go to the customer's site for troubleshooting.

On-Site Services

Decowell Automation's service network is nationwide, we provide free prototype testing and on-site installation support and maintenance training, and can quickly arrive at the site to serve our customers when they need it.

