





IP67 Intergrated I/O Module	01
P4-5	

IO-Link Solution	02
P6-9	

FX20 Series Distributed I/O	03
P10-12	

IP20 I/O Module	04
P13-16	

MVTG Series Valve Terminals	05
P17-20	

RF30 Series HF RFID	06
P21-22	

Connectivity	07
P23-25	

IP67 Integrated I/O Module



The Compact 67 I/O modules for fieldbus provide a reliable solution for connecting industrial controllers to I/O devices in harsh environments.

Supports industrial protocols such as Profibus-DP, DeviceNet, CC-Link, Profinet, EtherCAT, Ethernet/IP, CC-LINK IE FB, etc.

Compact67 I/O modules with IP67 housing can be standardized installation, and operate in harsh dust, underwater and vibration condition. These features make them ideally suited for many applications, such as material handling equipment and automated assembly machinery etc.

Supports switch input and output signals of PNP and NPN types, as well as analog input and output signals such as current, voltage, and thermocouple.

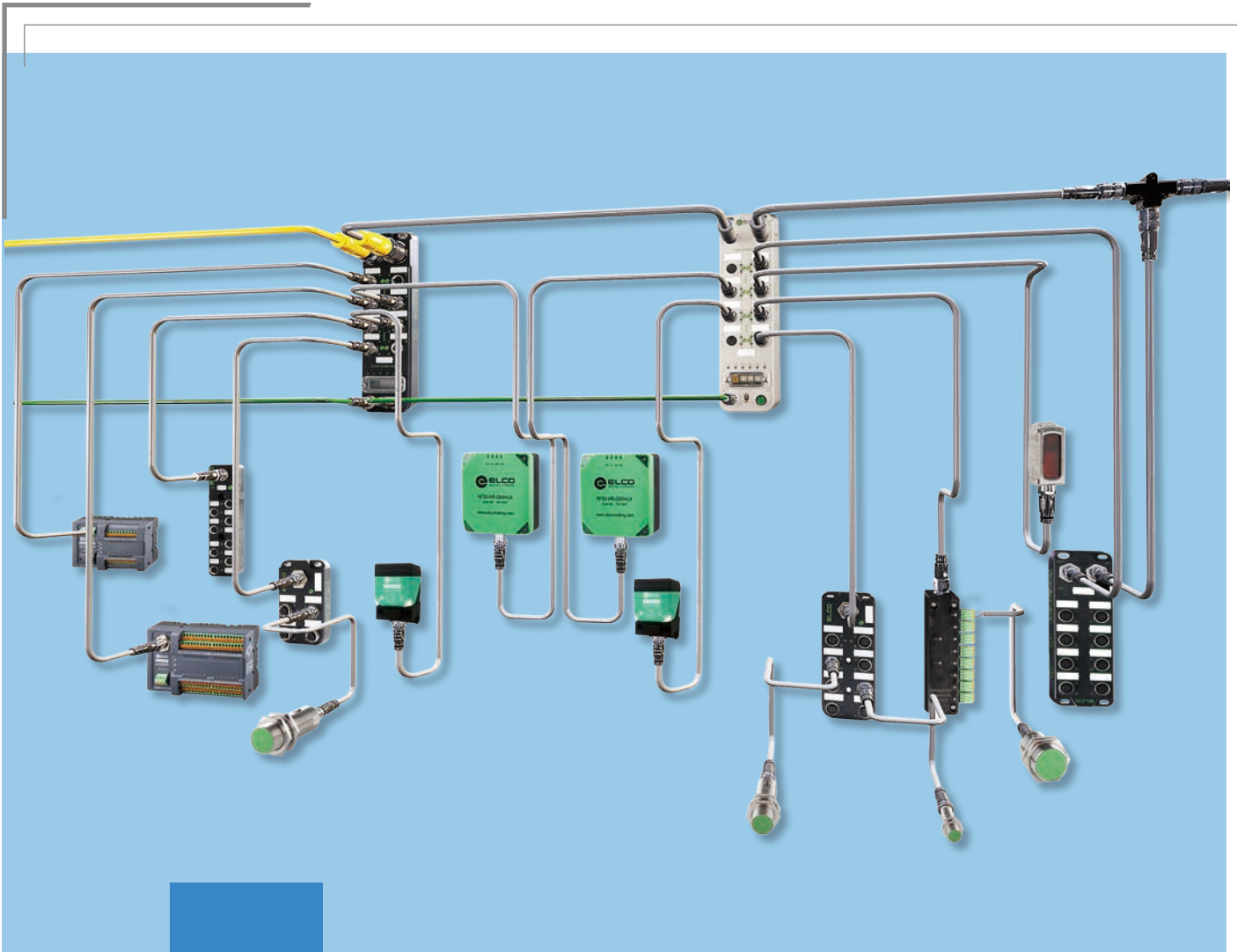
Embedded bright LED diagnosis help maintenance personnel to easily judge I/O, module and network status.

Model List

Type	Model	Description	Picture
DP classical	FCDP-1600P-M12	Profibus-DP, 16*DI, PNP, 8*M12	
	FCDP-0808P-M12	Profibus-DP, 8*DI+8*DO, PNP, 8*M12	
	FCDP-16UP-M12	Profibus-DP, 16*DI/DO, PNP, 8*M12	
DN classical	FCDN-1600P-M12	Devicenet, 16*DI, PNP, 8*M12	
	FCDN-0808P-M12	Devicenet, 8*DI+8*DO, PNP, 8*M12	
	FCDN-16UP-M12	Devicenet, 16*DI/DO, PNP, 8*M12	
CL classical	FCCL-1600P-M12	CC-Link, 16*DI, PNP, 8*M12	
	FCCL-0808P-M12	CC-Link, 8*DI+8*DO, PNP, 8*M12	
	FCCL-16UP-M12	CC-Link, 16*DI/DO, PNP, 8*M12	
	FCCL-1600N-M12	CC-Link, 16*DI, NPN, 8*M12	
	FCCL-0808N-M12	CC-Link, 8*DI+8*DO, NPN, 8*M12	
	FCCL-16UN-M12	CC-Link, 16*DI/DO, NPN, 8*M12	
PN classical	FCPN-1600P-M12	Profinet, 16*DI, PNP, 8*M12	
	FCPN-0808P-M12	Profinet, 8*DI+8*DO, PNP, 8*M12	
	FCPN-16UP-M12	Profinet, 16*DI/DO, PNP, 8*M12	
EI classical	FCEI-1600P-M12	Ethernet/IP, 16*DI, PNP, 8*M12	
	FCEI-0808P-M12	Ethernet/IP, 8*DI+8*DO, PNP, 8*M12	
	FCEI-16UP-M12	Ethernet/IP, 16*DI/DO, PNP, 8*M12	
CB classical	FCCB-1600P-M12	CC-Link IE FB, 16*DI, PNP, 8*M12	
	FCCB-0808P-M12	CC-Link IE FB, 8*DI+8*DO, PNP, 8*M12	
	FCCB-16UP-M12	CC-Link IE FB, 16*DI/DO, PNP, 8*M12	
PN slim	FEPN-0800P-M8	Profinet, 8*DI, PNP, 8*M8	
	FEPN-0404P-M8	Profinet, 4*DI+4*DO, PNP, 8*M8	
	FEPN-08UP-M8	Profinet, 8*DI/DO, PNP, 8*M8	
	FEPN-04UA-M12-T	Profinet, 4*AI/AO, current/voltage/thermocouple, 4*M12	
EC slim	FEEC-0800P-M8	EtherCAT, 8*DI, PNP, 8*M8	
	FEEC-08UP-M8	EtherCAT, 8*DI/DO, PNP, 8*M8	
	FEEC-08UN-M8	EtherCAT, 8*DI/DO, NPN, 8*M8	
	FEEC-04UA-M12-T	EtherCAT, 4*AI/AO, current/voltage/thermocouple, 4*M12	

IO-Link Solution

IO-LINK



The newly launched IO-Link solution eliminates the need for dedicated communication cables and enables efficient communication with IO-Link master and IO-Link devices using traditional unshielded industrial cables.

The IO-Link master supports industrial protocols such as Profinet, EtherCAT, Ethernet/IP, CC-LINK IE FB, etc.

Each IO-Link master can support up to 8 IO-Link interfaces, and can choose the interface form of Class-A or Class-B specification according to needs, which meets the requirements of IO-Link v1.1 version and supports transmission rates of COM1 (4.8 kbps), COM2 (38.4 kbps), COM3 (230.4 kbps) communication rates.

IO-Link signal hub, as an IO-Link slave device, meets the requirements of IO-Link v1.1 version and supports COM2 or COM3 communication rates. It can be connected to IO-Link masters of ELCO or other brands for collecting on-site switch or analog input/output signals.

Each hub can connect up to 16 or 32 switch signals and 8 analog signals.

Model List

Type	Model	Description	Picture
IO-Link master	FCPN-8LKM-8A	Profinet, 8*Class-A	
	FCPN-8LKM-4A4B	Profinet, 4*Class-A+4*Class-B	
	FCPN-4LKM-4A4S	Profinet, 4*Class-A	
	FCEC-8LKM-8A	EtherCAT, 8*Class-A	
	FCEC-8LKM-4A4B	EtherCAT, 4*Class-A+4*Class-B	
	FCEC-4LKM-4A4S	EtherCAT, 4*Class-A	
	FCEI-8LKM-8A	Ethernet/IP, 8*Class-A	
	FCEI-8LKM-4A4B	Ethernet/IP, 4*Class-A+4*Class-B	
	FCEI-4LKM-4A4S	Ethernet/IP, 4*Class-A	
	FCPN-8LKM-8A-M	Profinet, 8*Class-A, metal housing	
	FCEC-8LKM-8A-M	EtherCAT, 8*Class-A, metal housing	
	FCCB-8LKM-8A-M	CC-Link IE FB, 8*Class-A, metal housing	
	FCEN-8LKM-8A-M	Multi-Protocol, 8*Class-A, metal housing	
	FCEN-8LKM-8A-MP4	Multi-Protocol, 8*Class-A, metal housing	
IP67 signal hub	LKHA-0800P-M8	IO-Link hub, 8*DI, PNP, 8*M8	
	LKHA-08UP-M8	IO-Link hub, 8*DI/DO, PNP, 8*M8	
	LKHA-0800N-M8	IO-Link hub, 8*DI, NPN, 8*M8	
	LKHA-08UN-M8	IO-Link hub, 8*DI/DO, NPN, 8*M8	
	LKHA-0800P-M12	IO-Link hub, 8*DI, PNP, 4*M12	
	LKHA-08UP-M12	IO-Link hub, 8*DI/DO, PNP, 4*M12	
	LKHA-1600P-M12	IO-Link hub, 8*DI/DO, PNP, 8*M12	
	LKHA-088UP-M12	IO-Link hub, 8*DI+8*DI/DO, PNP, 8*M12	
	LKHA-16UP-M12	IO-Link hub, 16*DI/DO, PNP, 8*M12	
	LKHA-1600N-M12	IO-Link hub, 16*DI, NPN, 8*M12	
	LKHA-088UN-M12	IO-Link hub, 8*DI+8*DI/DO, NPN, 8*M12	
	LKHA-16UN-M12	IO-Link hub, 16*DI/DO, NPN, 8*M12	
	LKHA-16UP-M12G	IO-Link hub, 16*DI/DO, PNP, 8*M12, metal housing	
	LKHA-08UA-M12G	IO-Link hub, 8*AI/AO, current/voltage, M12, metal housing	
IP67 signal hub with Aux. power	LKHA-0808P-M12-A	IO-Link hub, 8*DI+8*DO, PNP, 8*M12, Aux. power	
	LKHA-0016P-M12-A	IO-Link hub, 16*DO, PNP, 8*M12, Aux. power	
	LKHA-16UP-M12G-AP4	IO-Link hub, 16*DI/DO, PNP, 8*M12, metal housing, Aux. power	
Short IP20 signal hub 4-pin IO-Link connector	LKHA-1600P-TC	IO-Link hub, IP20, 16*DI, PNP	
	LKHA-0808P-TC	IO-Link hub, IP20, 8*DI+8*DO, PNP	
	LKHA-0016P-TC	IO-Link hub, IP20, 16*DO, PNP	
	LKHA-1600N-TC	IO-Link hub, IP20, 16*DI, NPN	

IO-Link Solution

IO-LINK

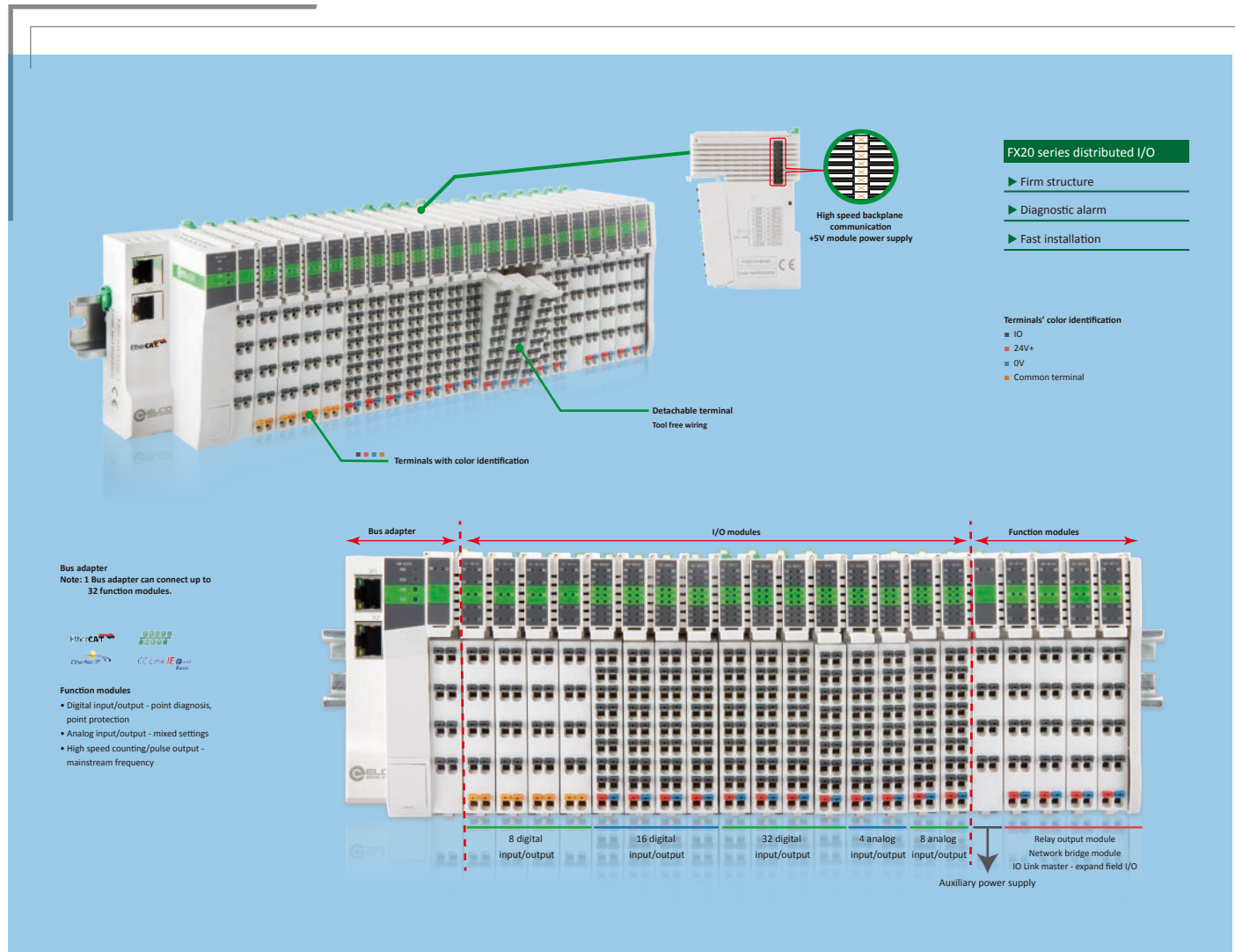
Model List

Type	Model	Description	Picture
Short IP20 signal hub 4-pin IO-Link connector	LKHA-0808N-TC	IO-Link hub, IP20, 8*DI+8*DO, NPN	
	LKHA-0016N-TC	IO-Link hub, IP20, 16*DO, NPN	
	LKHA-04UA-TC	IO-Link hub, IP20, 4*AI/AO	
	LKHA-1600P-TA	IO-Link hub, IP20, 16*DI, PNP	
	LKHA-0808P-TA	IO-Link hub, IP20, 8*DI+8*DO, PNP	
	LKHA-0016P-TA	IO-Link hub, IP20, 16*DO, PNP	
	LKHA-1600N-TA	IO-Link hub, IP20, 16*DI, NPN	
	LKHA-0808N-TA	IO-Link hub, IP20, 8*DI+8*DO, NPN	
	LKHA-0016N-TA	IO-Link hub, IP20, 16*DO, NPN	
	LKHA-16UP-TS	IO-Link hub, IP20, 16*DI/DO, PNP	
	LKHA-16UN-TS	IO-Link hub, IP20, 16*DI/DO, NPN	
	LKHA-1600P-QC	IO-Link hub, IP20, 16*DI, PNP	
Short IP20 signal hub M12 IO-Link connector	LKHA-0808P-QC	IO-Link hub, IP20, 8*DI+8*DO, PNP	
	LKHA-0016P-QC	IO-Link hub, IP20, 16*DO, PNP	
	LKHA-1600N-QC	IO-Link hub, IP20, 16*DI, NPN	
	LKHA-0808N-QC	IO-Link hub, IP20, 8*DI+8*DO, NPN	
	LKHA-0016N-QC	IO-Link hub, IP20, 16*DO, NPN	
	LKHA-04UA-QC	IO-Link hub, IP20, 4*AI/AO	
	LKHA-1600P-QA	IO-Link hub, IP20, 16*DI, PNP	
	LKHA-0808P-QA	IO-Link hub, IP20, 8*DI+8*DO, PNP	
	LKHA-0016P-QA	IO-Link hub, IP20, 16*DO, PNP	
	LKHA-1600N-QA	IO-Link hub, IP20, 16*DI, NPN	
	LKHA-0808N-QA	IO-Link hub, IP20, 8*DI+8*DO, NPN	
	LKHA-0016N-QA	IO-Link hub, IP20, 16*DO, NPN	
Long IP20 signal hub 4-pin IO-Link connector	LKHA-3200P-TC	IO-Link hub, IP20, 32*DI, PNP	
	LKHA-1616P-TC	IO-Link hub, IP20, 16*DI+16*DO, PNP	
	LKHA-0032P-TC	IO-Link hub, IP20, 32*DO, PNP	
	LKHA-3200N-TC	IO-Link hub, IP20, 32*DI, NPN	
	LKHA-1616N-TC	IO-Link hub, IP20, 16*DI+16*DO, NPN	
	LKHA-0032N-TC	IO-Link hub, IP20, 32*DO, NPN	
	LKHA-08UA-TC	IO-Link hub, IP20, 8*AI/AO	
	LKHA-3200P-TA	IO-Link hub, IP20, 32*DI, PNP	
	LKHA-1616P-TA	IO-Link hub, IP20, 16*DI+16*DO, PNP	
	LKHA-0032P-TA	IO-Link hub, IP20, 32*DO, PNP	
	LKHA-3200N-TA	IO-Link hub, IP20, 32*DI, NPN	

Model List

Type	Model	Description	Picture
Long IP20 signal hub 4-pin IO-Link connector	LKHA-1616N-TA	IO-Link hub, IP20, 16*DI+16*DO, NPN	
	LKHA-0032N-TA	IO-Link hub, IP20, 32*DO, NPN	
	LKHA-3200P-TS	IO-Link hub, IP20, 32*DI, PNP	
	LKHA-1616P-TS	IO-Link hub, IP20, 16*DI, 16*DO, PNP	
	LKHA-3200N-TS	IO-Link hub, IP20, 32*DI, NPN	
	LKHA-1616N-TS	IO-Link hub, IP20, 16*DI, 16*DO, NPN	
Long IP20 signal hub M12 IO-Link connector	LKHA-3200P-QC	IO-Link hub, IP20, 32*DI, PNP	
	LKHA-1616P-QC	IO-Link hub, IP20, 16*DI+16*DO, PNP	
	LKHA-0032P-QC	IO-Link hub, IP20, 32*DO, PNP	
	LKHA-3200N-QC	IO-Link hub, IP20, 32*DI, NPN	
	LKHA-1616N-QC	IO-Link hub, IP20, 16*DI+16*DO, NPN	
	LKHA-0032N-QC	IO-Link hub, IP20, 32*DO, NPN	
	LKHA-08UA-QC	IO-Link hub, IP20, 8*AI/AO	
	LKHA-3200P-QA	IO-Link hub, IP20, 32*DI, PNP	
	LKHA-1616P-QA	IO-Link hub, IP20, 16*DI+16*DO, PNP	
	LKHA-0032P-QA	IO-Link hub, IP20, 32*DO, PNP	
	LKHA-3200N-QA	IO-Link hub, IP20, 32*DI, NPN	
	LKHA-1616N-QA	IO-Link hub, IP20, 16*DI+16*DO, NPN	
Mini-hub series	LKHA-0800P-QM	IO-Link hub, 8*DI, PNP, terminal connector	
	LKHA-044UP-QM	IO-Link hub, 4*DI+4*DI/DO, PNP, terminal connector	
	LKHA-0800N-QM	IO-Link hub, 8*DI, NPN, terminal connector	
	LKHA-044UN-QM	IO-Link hub, 4*DI+4DI/DO, NPN, terminal connector	

FX20 Series Distributed I/O



- The FX20 series modular I/O system consists of bus interface modules, I/O modules, and functional modules;
- The bus interface module can expand up to 32 I/O and functional modules, compatible with various mainstream Ethernet bus protocols such as EtherCAT, Profinet, Ethernet/IP, CC-LINK IE FB, Modbus/TCP, etc;
- I/O and functional modules include digital input/output, relay output, analog input/output, temperature measurement, high-speed counting, IO-Link master, serial communication module, etc;
- Adopting high-speed backplane bus technology, with high communication bandwidth and fast response speed;
- The module and terminals adopt a detachable design, allowing for quick installation and wiring without the need for tools;
- Terminal color identification system, with clear functions at a glance;
- LED alarm indicator lights, online diagnostic message.

Model List

Type	Model	Description	Picture
Bus interfaces	FX20-GW-EC00	EtherCAT	
	FX20-GW-PN00	Profinet	
	FX20-GW-EP00	Ethernet/IP	
	FX20-GW-CE00	CC-LINK IE Field Basic	
	FX20-GW-MT00	MODBUS/TCP, 2 × RJ45	
	FX20-GW-MB00	MODBUS TCP/RTU, 1 × RJ45, 1 × RS485/RS232	
Digital modules	FX20-DI-BF60	8DI, PNP/NPN, 24 V DC	
	FX20-DI-BH60	16DI, PNP/NPN, 24 V DC	
	FX20-DI-BL60	32DI, PNP/NPN, 24 V DC	
	FX20-DO-BF00	8DO, PNP, 24 V DC	
	FX20-DO-BF50	8DO, NPN, 24 V DC	
	FX20-DO-BH00	16DO, PNP, 24 V DC	
	FX20-DO-BH50	16DO, NPN, 24 V DC	
	FX20-DO-BL00	32DO, PNP, 24 V DC	
	FX20-DO-BL50	32DO, NPN, 24 V DC	

FX20 Series

Distributed I/O

FX20

Model List

Type	Model	Description	Picture
Digital modules	FX20-DO-RF00	8DO, solid state relay, float, AC 230 V, 0.5 A	
	FX20-DO-RF50	8DO, mechanical relay, float, AC 250 V / DC 30 V, 2 A	
Analog modules	FX20-AI-BD60	4AI, U/I, 24 V DC	
	FX20-AI-BF60	8AI, U/I, 24 V DC	
	FX20-AO-BD60	4AO, U/I, 24 V DC	
	FX20-AO-BF60	8AO, U/I, 24 V DC	
	FX20-AI-BD80	4RTD, 24 V DC	
	FX20-AI-BD90	4TC, 24 V DC	
Functional modules	FX20-CNT-BB00	Dual channel ABZ three-phase high-speed counting module, 24 V	
	FX20-LKM-BB00	2 × IO-Link master, compatible ClassA / ClassB, 32 Bytes	
	FX20-LKM-BD00	4 × IO-Link master, compatible ClassA / ClassB, 8 Bytes	
	FX20-SCM-BB00	Dual channel, compatible with RS485 / RS422 / RS232	
	FX20-PGM-BA00	Single channel pulse output module, 24 V	
Auxiliary power module	FX20-PS-AB00	Power auxiliary module, 5 V	

FB20

FB20 Series



- Wide body design, 32 digital I/O modules
- Input / output configurable modules optional
- Compatible with mainstream Ethernet bus systems such as Profinet, EtherCAT, Ethernet/IP, CC link IE Field Basic, etc
- Same number of equipotential terminals as I/Os, convenient for sensor power supply
- Detachable terminal design, tool free quick wiring
- Standard 35mm DIN rail installation
- LED alarm indicator lights, online diagnostic message

FB20 Series

Model List

Type	Model	Description	Picture
Profinet	FBPN-3200P-TS	Profinet, 32DI, PNP, with equipotential terminal blocks	
	FBPN-0032P-TS	Profinet, 32DO, PNP, with equipotential terminal blocks	
	FBPN-1616P-TS	Profinet, 16DI/16DO, PNP, with equipotential terminal blocks	
	FBPN-1616UP-TS	Profinet, 16DI/16DIO, PNP, with equipotential terminal blocks	
	FBPN-3200N-TS	Profinet, 32DI, NPN, with equipotential terminal blocks	
	FBPN-0032N-TS	Profinet, 32DO, NPN, with equipotential terminal blocks	
	FBPN-1616N-TS	Profinet, 16DI/16DO, NPN, with equipotential terminal blocks	
	FBPN-1616UN-TS	Profinet, 16DI/16DIO, NPN, with equipotential terminal blocks	
EtherCAT	FBEC-3200P-TS	EtherCAT, 32DI, PNP, with equipotential terminal blocks	
	FBEC-0032P-TS	EtherCAT, 32DO, PNP, with equipotential terminal blocks	
	FBEC-1616P-TS	EtherCAT, 16DI/16DO, PNP, with equipotential terminal blocks	
	FBEC-1616UP-TS	EtherCAT, 16DI/16DIO, PNP, with equipotential terminal blocks	
	FBEC-3200N-TS	EtherCAT, 32DI, NPN, with equipotential terminal blocks	
	FBEC-0032N-TS	EtherCAT, 32DO, NPN, with equipotential terminal blocks	
	FBEC-1616N-TS	EtherCAT, 16DI/16DO, NPN, with equipotential terminal blocks	
	FBEC-1616UN-TS	EtherCAT, 16DI/16DIO, NPN, with equipotential terminal blocks	
Ethernet/IP	FBEI-3200P-TS	Ethernet/IP, 32DI, PNP, with equipotential terminal blocks	
	FBEI-0032P-TS	Ethernet/IP, 32DO, PNP, with equipotential terminal blocks	
	FBEI-1616P-TS	Ethernet/IP, 16DI/16DO, PNP, with equipotential terminal blocks	
	FBEI-1616UP-TS	Ethernet/IP, 16DI/16DIO, PNP, with equipotential terminal blocks	
	FBEI-3200N-TS	Ethernet/IP, 32DI, NPN, with equipotential terminal blocks	
	FBEI-0032N-TS	Ethernet/IP, 32DO, NPN, with equipotential terminal blocks	
	FBEI-1616N-TS	Ethernet/IP, 16DI/16DO, NPN, with equipotential terminal blocks	
	FBEI-1616UN-TS	Ethernet/IP, 16DI/16DIO, NPN, with equipotential terminal blocks	
CC-LINK IE FB	FBCB-3200P-TS	CC-LINK IE FB, 32DI, PNP, with equipotential terminal blocks	
	FBCB-0032P-TS	CC-LINK IE FB, 32DO, PNP, with equipotential terminal blocks	
	FBCB-1616P-TS	CC-LINK IE FB, 16DI/16DO, PNP, with equipotential terminal blocks	
	FBCB-1616UP-TS	CC-LINK IE FB, 16DI/16DIO, PNP, with equipotential terminal blocks	
	FBCB-3200N-TS	CC-LINK IE FB, 32DI, NPN, with equipotential terminal blocks	
	FBCB-0032N-TS	CC-LINK IE FB, 32DO, NPN, with equipotential terminal blocks	
	FBCB-1616N-TS	CC-LINK IE FB, 16DI/16DO, NPN, with equipotential terminal blocks	
	FBCB-1616UN-TS	CC-LINK IE FB, 16DI/16DIO, NPN, with equipotential terminal blocks	

FV

FV20 Series



- Bookform design, suitable for compact installation space,
- 32 digital I/O modules, Input / output configurable modules optional
- Compatible with mainstream Ethernet bus systems such as Profinet, EtherCAT, Ethernet/IP, CC link IE Field Basic, etc
- Metal housing, more sturdy and durable
- Detachable terminal design, tool free quick wiring
- Standard 35mm DIN rail installation
- LED alarm indicator lights, online diagnostic message

FV20 Series

Model List

Type	Model	Description	Picture
EtherCAT	FVEC-3200P	EtherCAT, 32DI, PNP	
	FVEC-0032P	EtherCAT, 32DO, PNP	
	FVEC-1616P	EtherCAT, 16DI/16DO, PNP	
	FVEC-1616UP	EtherCAT, 16DI/16DIO, PNP	
	FVEC-3200N	EtherCAT, 32DI, NPN	
	FVEC-0032N	EtherCAT, 32DO, NPN	
	FVEC-1616N	EtherCAT, 16DI/16DO, NPN	
	FVEC-1616UN	EtherCAT, 16DI/16DIO, NPN	
Profinet (developing)	FVPN-3200P	Profinet, 32DI, PNP	
	FVPN-0032P	Profinet, 32DO, PNP	
	FVPN-1616P	Profinet, 16DI/16DO, PNP	
	FVPN-1616UP	Profinet, 16DI/16DIO, PNP	
	FVPN-3200N	Profinet, 32DI, NPN	
	FVPN-0032N	Profinet, 32DO, NPN	
	FVPN-1616N	Profinet, 16DI/16DO, NPN	
	FVPN-1616UN	Profinet, 16DI/16DIO, NPN	
Ethernet/IP (developing)	FVEI-3200P	Ethernet/IP, 32DI, PNP	
	FVEI-0032P	Ethernet/IP, 32DO, PNP	
	FVEI-1616P	Ethernet/IP, 16DI/16DO, PNP	
	FVEI-1616UP	Ethernet/IP, 16DI/16DIO, PNP	
	FVEI-3200N	Ethernet/IP, 32DI, NPN	
	FVEI-0032N	Ethernet/IP, 32DO, NPN	
	FVEI-1616N	Ethernet/IP, 16DI/16DO, NPN	
	FVEI-1616UN	Ethernet/IP, 16DI/16DIO, NPN	
CC-LINK IE FB (developing)	FVCB-3200P	CC-LINK IE FB, 32DI, PNP	
	FVCB-0032P	CC-LINK IE FB, 32DO, PNP	
	FVCB-1616P	CC-LINK IE FB, 16DI/16DO, PNP	
	FVCB-1616UP	CC-LINK IE FB, 16DI/16DIO, PNP	
	FVCB-3200N	CC-LINK IE FB, 32DI, NPN	
	FVCB-0032N	CC-LINK IE FB, 32DO, NPN	
	FVCB-1616N	CC-LINK IE FB, 16DI/16DO, NPN	
	FVCB-1616UN	CC-LINK IE FB, 16DI/16DIO, NPN	

MVTG

MVTG Series Valve Terminals



• Compact structure and better performance:

MVTG series valve terminal adopts compact design, with compact solenoid valve, the size is smaller, which greatly saves the space of the industrial automation system and reduces the production cost of the enterprise. At the same time, the main gas circuit design is optimized to reduce the flow loss, the valve width is 14 mm, but the maximum flow rate can reach 770 L/min; Optimize the pilot air path to reduce the opening pressure. And its installation process is simple and fast, which reduces the difficulty of installation and maintenance of the system.

• High stability and strong reliability:

The valve terminal has excellent stability and reliability. Optimize the design of circuit board pins and female headers to effectively avoid poor contact; the LED display has a wide viewing angle, which can quickly check and identify the working status of the solenoid valve. It can operate stably in various harsh environments to ensure the smooth progress of industrial automation processes.

• Rich communication protocols and convenient valve body configuration:

MVTG series valve terminals support a variety of communication protocols, such as IO-Link, Profinet, Ethernet/IP, CC-link IEFB, etc., which is convenient for data exchange and integration with other industrial automation equipment. And it can be matched with 8 types of high-flow solenoid valves at will, and the valve body itself supports up to 24 dual-control solenoid valves. In-port and out-of-the-wheel pilot functions can also be quickly implemented by interchanging plugs and pins, providing users with more flexible options and improving overall performance and flexibility.

• Remote monitoring and diagnosis function:

The valve terminal also supports remote monitoring and diagnosis function, which is convenient for enterprises to understand the operation status of equipment in real time, and find and solve problems in time. This greatly improves the production efficiency and product quality of the enterprise.

• Rich functions and easy to use:

The valve terminal can be replaced with three valve terminal nodes, namely IO-Link valve terminal node, multi-protocol valve terminal node and multi-protocol valve terminal node with IO-Link master function. Among them, the valve terminal node with IO-Link master function carries a 2*32 Byte IO-Link master interface (CH1/CH2), which can easily connect IO-Link slave devices, making it more convenient and faster for customers to connect sensors, loads and other devices in the field, and save costs.

MVTG Series Valve Terminals

Model List

Type	Model	Description	Picture
Valve terminal node	MVT-C-LK	Support IO-Link, Class-B interface. It can be equipped with up to 24 dual-control solenoid valves	
	MVT-C-EN	It supports Profinet, CC-Link IE, Ethernet/IP, and can be configured with up to 24 dual-control solenoid valves	
	MVT-E-EN	It supports Profinet, CC-Link IE, Ethernet/IP, with IO-Link master interface (2*Class-A), and can be configured with up to 24 dual-control solenoid valves	
Sub-base valve	VG-B14-B52-E-F-24	5/2-way valve, double solenoid	
	VG-B14-M52-ME-F-24	5/2-way valve, single solenoid, mechanical spring return	
	VG-B14-P53C-ME-F-24	5/3-way valve, mid-position closed	
	VG-B14-P53E-ME-F-24	5/3-way valve, mid-position exhausted	
	VG-B14-P53P-ME-F-24	5/3-way valve, mid-position pressurised	
	VG-B14-T32C-ME-F-24	2 x 3/2-way valve, normally closed, mechanical spring return	
	VG-B14-T32O-ME-F-24	2 x 3/2-way valve, normally open, mechanical spring return	
	VG-B14-T32B-ME-F-24	2 x 3/2-way valve, 1 x normally open, 1 x normally closed, mechanical spring return	
	VG-B14	Empty valve position, width of 14 mm	
Side outlet manifold rail	VG-L1-14W-4	4 valve positions, side outlet	
	VG-L1-14W-6	6 valve positions, side outlet	
	VG-L1-14W-8	8 valve positions, side outlet	
	VG-L1-14W-10	10 valve positions, side outlet	
	VG-L1-14W-12	12 valve positions, side outlet	
	VG-L1-14W-16	16 valve positions, side outlet	
	VG-L1-14W-20	20 valve positions, side outlet	
	VG-L1-14W-24	24 valve positions, side outlet	
Back outlet manifold rail	VG-L1-14BK-4	4 valve positions, back outlet	
	VG-L1-14BK-6	6 valve positions, back outlet	

Model List

Type	Model	Description	Picture
Back outlet manifold rail	VG-L1-14BK-8	8 valve positions, back outlet	
	VG-L1-14BK-10	10 valve positions, back outlet	
	VG-L1-14BK-12	12 valve positions, back outlet	
	VG-L1-14BK-16	16 valve positions, back outlet	
	VG-L1-14BK-20	20 valve positions, back outlet	
	VG-L1-14BK-24	24 valve positions, back outlet	
Quick connector	FP-M5-Q4-P10	M5 thread, suitable for air tubes with a diameter of $\varnothing$ 4 mm	
	FP-M5-Q6-P10	M5 thread, suitable for air tubes with a diameter of $\varnothing$ 6 mm	
	FP-G18-Q4-P10	G1/8 thread, suitable for air tubes with a diameter of $\varnothing$ 4 mm	
	FP-G18-Q6-P10	G1/8 thread, suitable for air tubes with a diameter of $\varnothing$ 6 mm	
	FP-G18-Q8-P10	G1/8 thread, suitable for air tubes with a diameter of $\varnothing$ 8 mm	
	FP-G14-Q6-P10	G1/4 thread, suitable for air tubes with a diameter of $\varnothing$ 6 mm	
	FP-G14-Q8-P10	G1/4 thread, suitable for air tubes with a diameter of $\varnothing$ 8 mm	
	FP-G14-Q10-P10	G1/4 thread, suitable for air tubes with a diameter of $\varnothing$ 10 mm	
	FP-G14-Q12-P10	G1/4 thread, suitable for air tubes with a diameter of $\varnothing$ 12 mm	
Silencer	FM-1/4	G1/4 thread	
Separator	VTG-14-S	Specification 14	
Metal plug	FB-G14-P10	G14 metal plug	
	FB-G18-P10	G18 metal plug	
	FB-M5-P10	M5 metal plug	
PU tube	PN-4*0.75-BL-100	Outer diameter 4 mm, blue color, 100 meters	
	PN-6*1-BL-100	Outer diameter 6 mm, blue color, 100 meters	

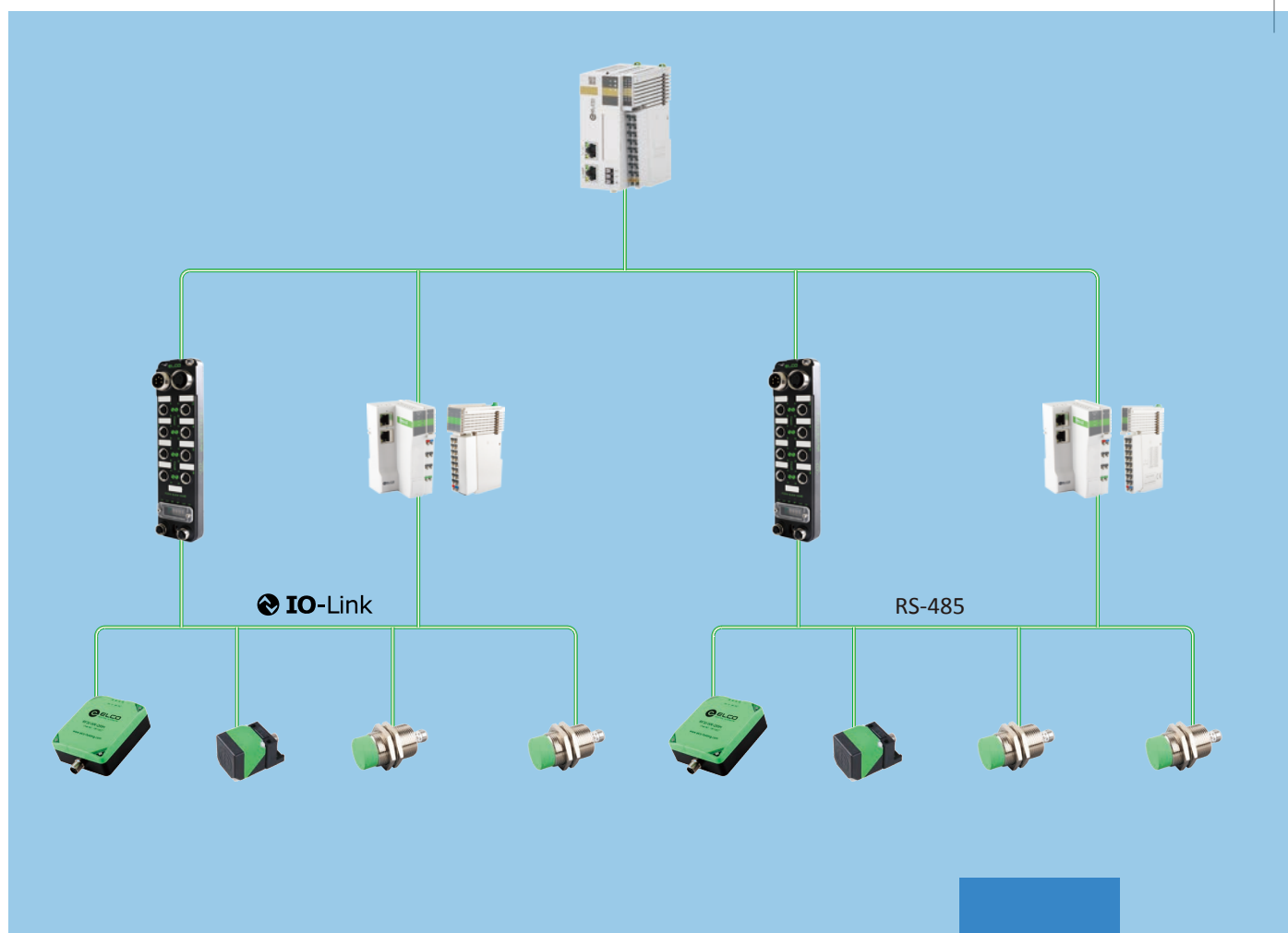
MVTG Series Valve Terminals

Model List

Type	Model	Description	Picture
PU tube	PN-8*1.25-BL-100	Outer diameter 8 mm, blue color, 100 meters	
	PN-10*1.5-BL-100	Outer diameter 10 mm, blue color, 100 meters	
	PN-12*2-BL-100	Outer diameter 12 mm, blue color, 100 meters	
	PN-16*2.5-BL-100	Outer diameter 16 mm, blue color, 100 meters	
	PN-4*0.75-BK-100	Outer diameter 4 mm, black color, 100 meters	
	PN-6*1-BK-100	Outer diameter 6 mm, black color, 100 meters	
	PN-8*1.25-BK-100	Outer diameter 8 mm, black color, 100 meters	
	PN-10*1.5-BK-100	Outer diameter 10 mm, black color, 100 meters	
	PN-12*2-BK-100	Outer diameter 12 mm, black color, 100 meters	
	PN-16*2.5-BK-100	Outer diameter 16 mm, black color, 100 meters	
	PN-4*0.75-TT-100	Outer diameter 4 mm, transparent color, 100 meters	
	PN-6*1-TT-100	Outer diameter 6 mm, transparent color, 100 meters	
	PN-8*1.25-TT-100	Outer diameter 8 mm, transparent color, 100 meters	
	PN-10*1.5-TT-100	Outer diameter 10 mm, transparent color, 100 meters	
	PN-12*2-TT-100	Outer diameter 12 mm, transparent color, 100 meters	
	PN-16*2.5-TT-100	Outer diameter 16 mm, transparent color, 100 meters	
PA Tube	PA-4*0.75-BK-100	Outer diameter 4 mm, black color, 100 meters	
	PA-6*1-BK-100	Outer diameter 6 mm, black color, 100 meters	
	PA-8*1-BK-100	Outer diameter 8 mm, black color, 100 meters	
	PA-10*1.25-BK-100	Outer diameter 10 mm, black color, 100 meters	
	PA-12*1.5-BK-100	Outer diameter 12 mm, black color, 100 meters	
	PA-16*1.5-BK-100	Outer diameter 16 mm, black color, 100 meters	

RFID

RF30 Series HF RFID



- RF30 high-frequency series of products by the read/write head and data carrier;
- RF30 read / write head products through the master expansion, compatible with EtherCAT, Profinet, Ethernet/IP, CC-LINK IE FB, Modbus/TCP and other mainstream Ethernet bus protocols;
- Operating frequency 13.56 Mhz, conforms to ISO 15693 standard;
- IO-Link protocol products are available in 32 bytes and 10 bytes versions, complying with IO-Link v1.1.3 communication standard;
- RS-485 products are compatible with Modbus RTU protocol for more flexible application scenarios;
- LED status indicator, error diagnostic message.

RF30 Series HF RFID

RFID

Model List

Type	Model	Description	Picture
Read / write head	RF30-WR-C40H/LK	IO-Link, Class A, 40 × 40 × 66 mm	
	RF30-WR-C40H	RS-485, Modbus RTU, 40 × 40 × 66 mm	
	RF30-WR-Q95H/LK	IO-Link, Class A, 94 × 80 × 34 mm	
	RF30-WR-Q95H	RS-485, Modbus RTU, 94 × 80 × 34 mm	
	RF30-WR-M30H/LK	IO-Link, Class A, Ø 30 × 46 mm, non-flush	
	RF30-WR-M30H	RS-485, Modbus RTU, Ø 30 × 46 mm, non-flush	
	RF30-WR-MF30H/LK	IO-Link, Class A, Ø 30 × 46 mm, flush	
	RF30-WR-MF30H	RS-485, Modbus RTU, Ø 30 × 46 mm, flush	
Data carrier	RF30-TGH-ER30	Memory data: 2560 bit/320 Byte, metal-free, outer diameter 30 mm, inner diameter 5 mm, thickness 3 mm	
	RF30-TGH-ER30/16K	Memory data: 16384 bit/2048 Byte, metal-free, outer diameter 30 mm, inner diameter 5 mm, thickness 3 mm	
	RF30-TGH-MR30	Memory data: 2560 bit/320 Byte, on metal, outer diameter 30 mm, inner diameter 5 mm, thickness 3 mm	
	RF30-TGH-ER50	Memory data: 2560 bit/320 Byte, metal-free, outer diameter 50 mm, inner diameter 5 mm, thickness 3 mm	
	RF30-TGH-ER50/16K	Memory data: 16384 bit/2048 Byte, metal-free, outer diameter 50 mm, inner diameter 5 mm, thickness 3 mm	
	RF30-TGH-MR50	Memory data: 2560 bit/320 Byte, on metal, outer diameter 50 mm, inner diameter 5 mm, thickness 3 mm	

CONNECT

Connectivity

I/O connectors



- M8 interface 3-pin, 4-pin; A-code
- M12 interface 3-pin, 4-pin, 5-pin, 8-pin, 12-pin; A-code, B-code, L-code
- Straight, angled; single-ended, double-ended, Y-Splitter
- PNP or NPN LED
- The length and material of cable can be customized
- IP67

Automation connectors

- Profinet, M12 interface D-code, X-code;
M8 interface D-code, A-code; RJ45 interface
- CC-Link M12 interface A-code
- Profibus M12 interface B-code
- Devicenet M12 interface A-code; 7/8 interface
- Straight, angled; single-ended, double-ended
- The length and material of cable can be customized
- IP20 (RJ45), IP67



Connectivity

Power connectors



- M12 interface 5-pin; L-code
- 7/8 interface 3-pin, 4-pin, 5-pin
- Straight, angled; single-ended, double-ended
- The length and material of cable can be customized
- IP67

Field-attachable connectors

- M8 interface 3-pin, 4-pin, A-code
- M12 interface 4-pin, 5-pin, 8-pin, 12-pin, A-code, B-code, D-code, L-code
- 7/8 interface 3-pin, 4-pin, 5-pin
- Straight, angled
- Metal, plastic
- IP67



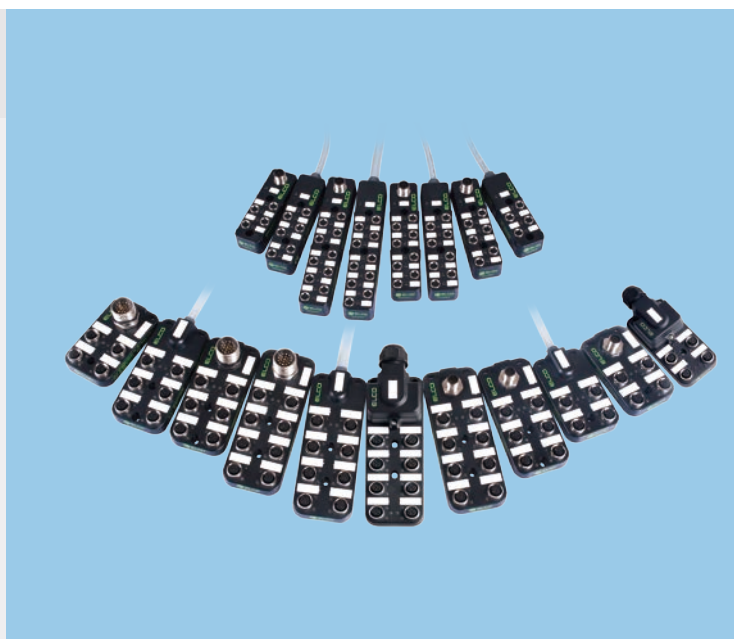
Other connectors



- Flange connector, M8, M12, 7/8 interface
- Rear panel installation/front panel installation
- Ø 8 A-code, female, straight, angled
- The length and material of cable can be customized
- IP67

Distribution box

- M8 interface provides 5 channels (ports) of 4, 6, 8, 10, and 12
- M12 interface provides 3 channels (ports) of 4, 6, and 8
- Direct output cable, M12, M23, terminal
- PNP, NPN, analog output, solenoid valve special output mode
- Special terminal connection series, can provide dual drive power supply products
- IP67





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