E·MC[®]

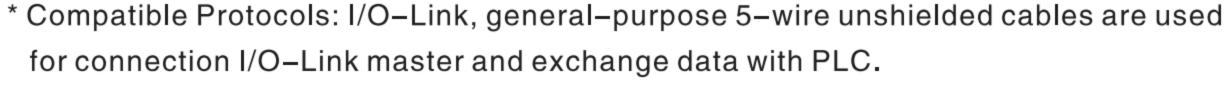
ESR Series Valve Terminal

ESR

Valve Terminal



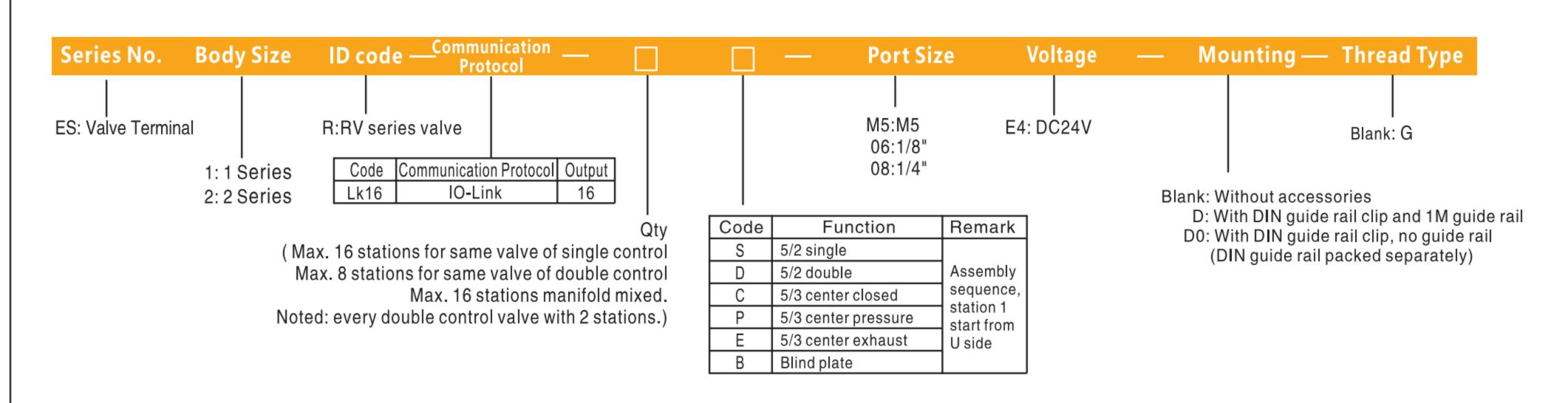
Product Features





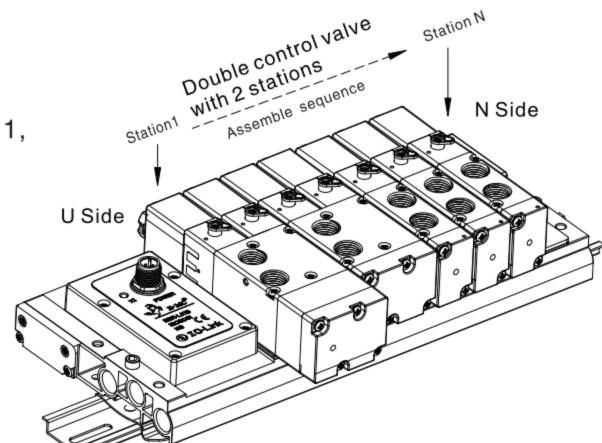
- * Support hot swap, data is stored in the I/O-Link master, no need to reconfigure parameters to replace the valve terminal, the newly replaced is automatically identified and start to work at once, reduce equipment downtime, reduce maintenance costs, and improve production efficiency.
- * Diagnostic functions: system diagnosis, communication error, short circuit protection.
- * Independent of fieldbus, possess strong industrial network compatibility, supply popular fieldbus and industry Ethernet.
- * Simple installation and configuration, easy to operate.
- * Communication is completely digitally transmitted, reduce the accuracy loss of analogto-digital conversion, possess strong anti-interference ability.

O How to Order?



Order Example:

- 1.Same valve: ES Fieldbus Valve Terminal, 1 series, IO-Link, 16 outputs, 6pcs 5/2 single control RV5211, port size 1/8", DC24V, without accessories, G thread. The ERP code is ES1R-LK16-6S-06E4.
- 2. Mixed different valves: ES Fieldbus Valve Terminal, 1 series, IO-Link, 16 outputs, see right picture: station 1 & station 2 are 5/3 center closed SR5312C, station 3 & station 4 are 5/2 double control SR5212, station 5 & station 6 & station 7 are 5/2 single control RV5211 port size 1/8", DC24V, with DIN guide rail clip and 1M guide rail, G thread. The ERP code is ES1R-LK16-CD3S-06E4-D.



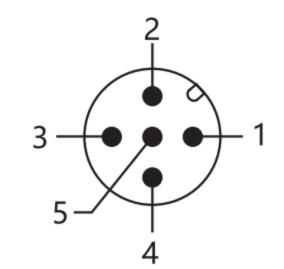


Specifications

Codo		ES1R-LK16						
Code		ES2R-LK16						
Output		16						
Protocols		IO-Link						
Baud rate		COM2 (38.4kbps)						
Configura	tion files	IODD file						
Specificati	ion version	V1.1(Compatible with 1.0)						
Control	Voltage	DC24V(DC21.6~26.4V)						
power supply	Current consumption	150mA below						
Output vo	ltage (valve)	DC24V(DC22.8 ~ 26.4V)						
Interface		M12, 5 pins, code A						
Interface t	type	Class B						
Device dia	agnosis	System diagnosis, communication error, short circuit protection						
Protection	1	IP65						
Storage to	emperature	–20 ~ 70°C						
Working t	emperature	–10 ~ 50°C						

Interface

Interface (M12, code A, Class B)

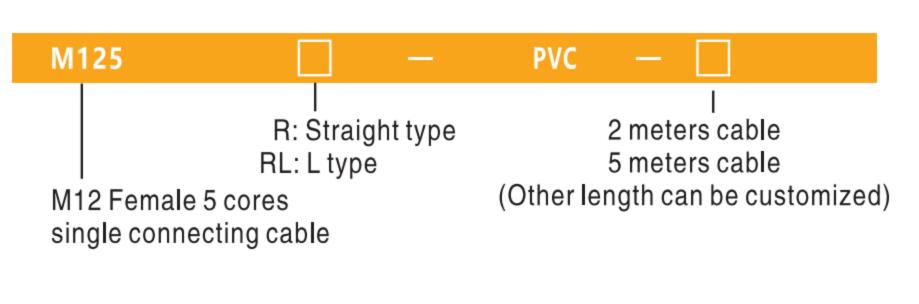


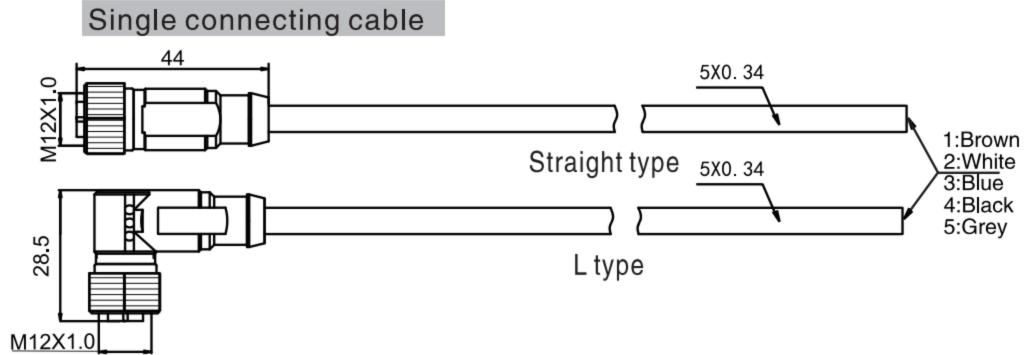
Pin	Туре	Description
1	PS24	Control working voltage +24V
2	PL24	Working voltage of load valve +24V
3	PS0	Control working voltage 0V
4	C/Q	Data communication (IO-Link)
5	PL0	Working voltage of load valve 0V

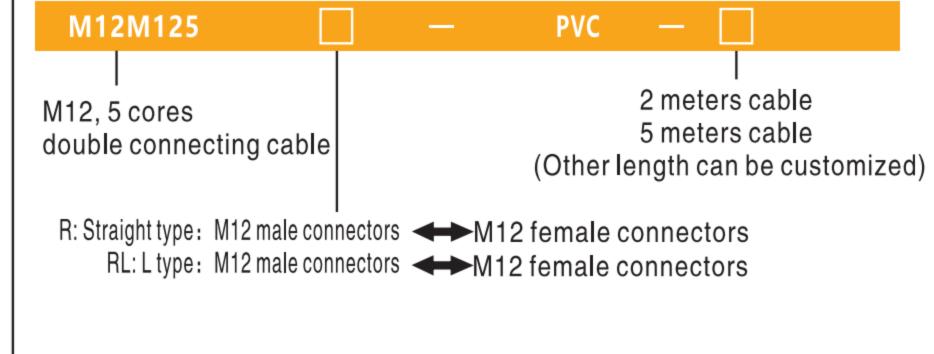
LED Indicators

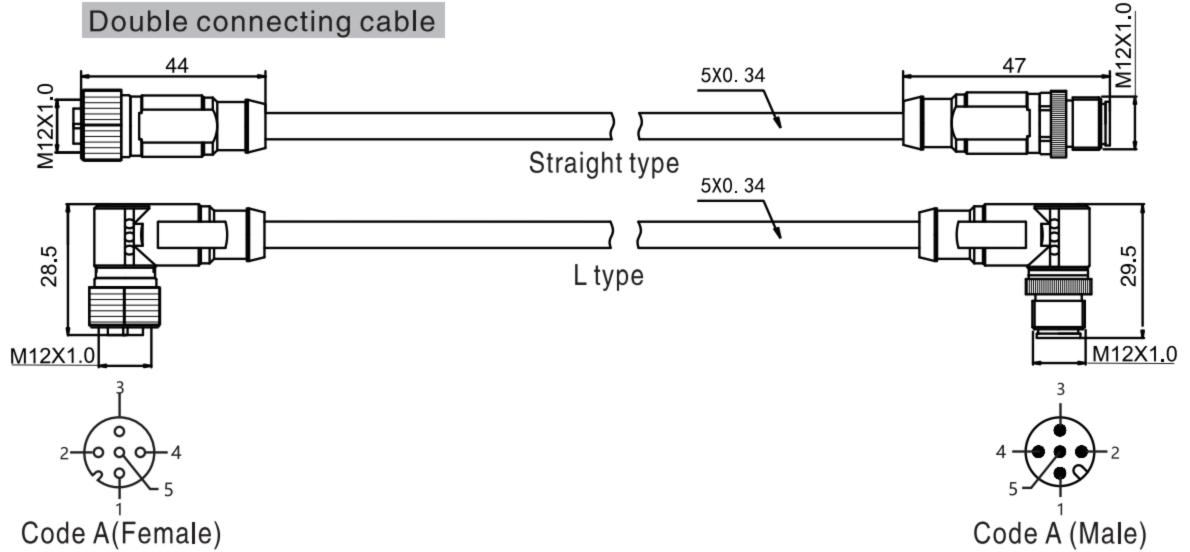
	Indicators	Status	Meaning					
		LED close	Abnormal power supply					
	X1	Green open	Normal power supply, no communication established					
	711	Red open	Fault or abnormal load power supply					
	Green Flash	Normal working						

Wiring







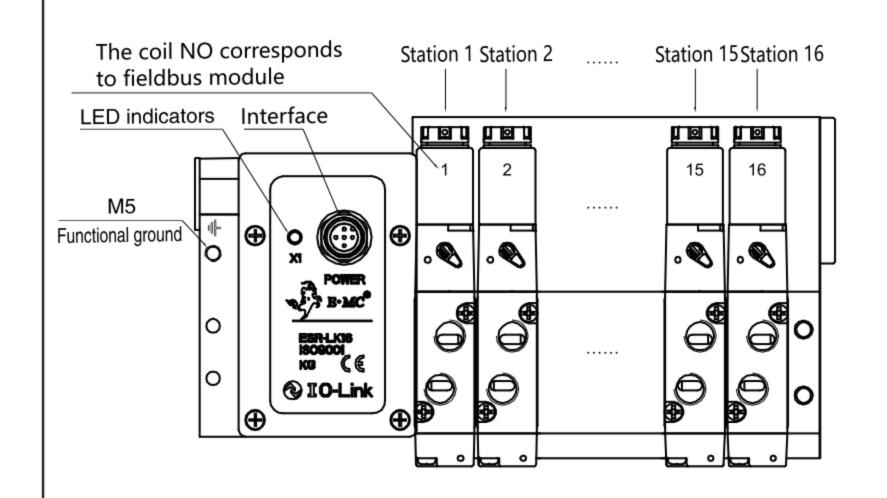


ESR Series Valve Terminal

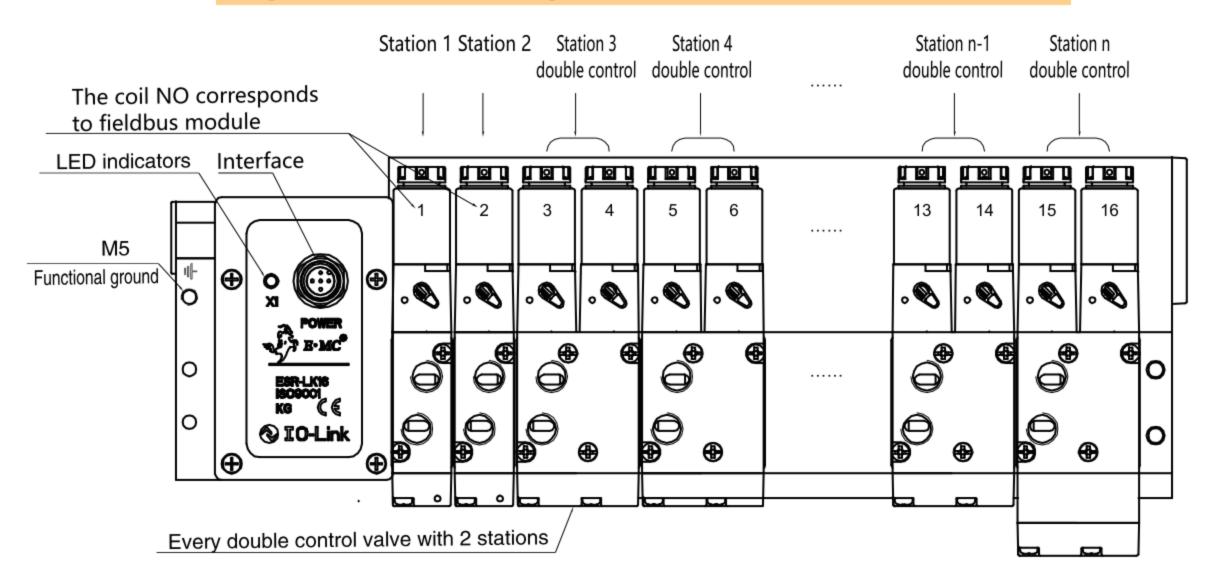


Wiring Diagram

Single control wiring (Max. 16 stations)



Single/Double control wiring mixed (Max. 8 stations for double control)



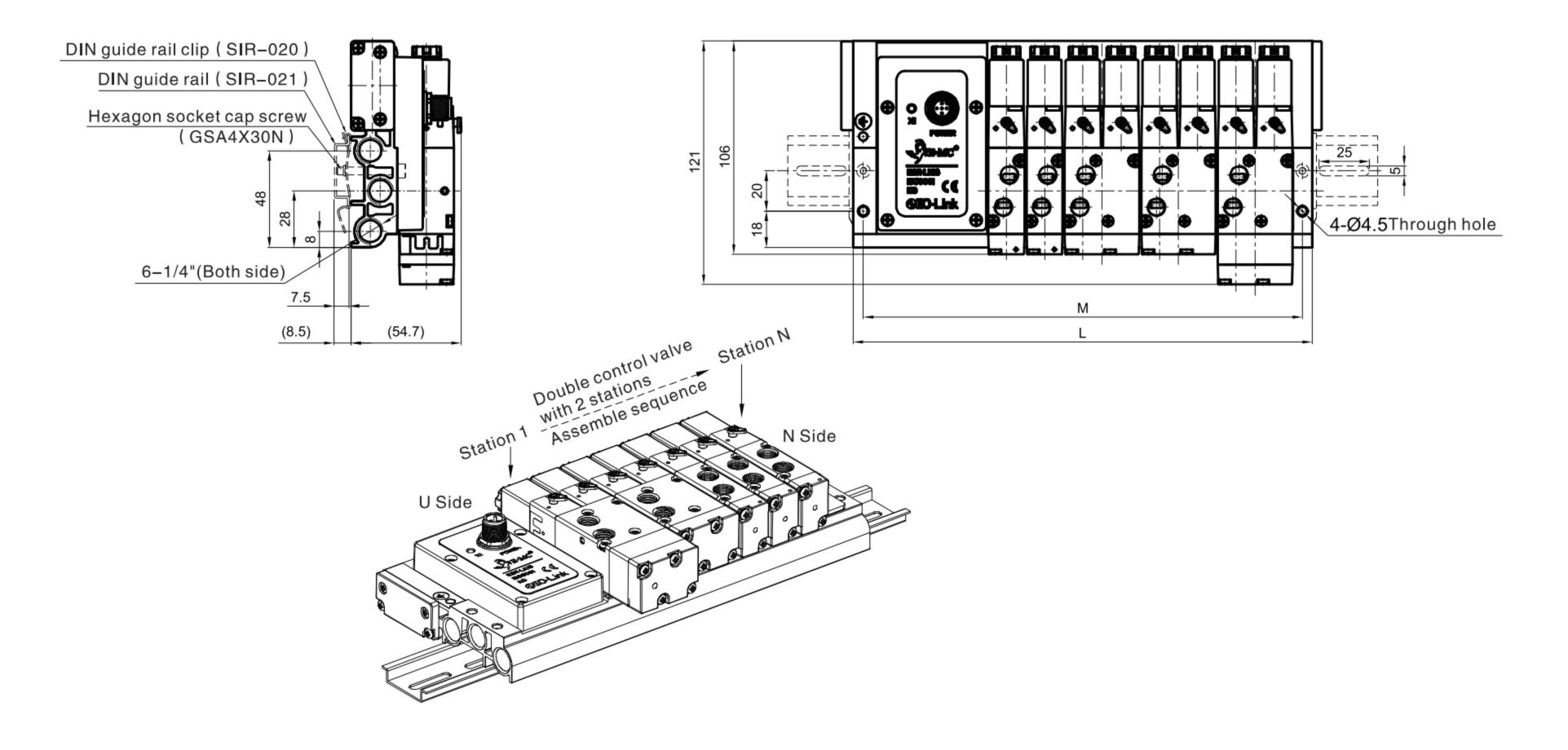
O Precautions for Use

- 1. Do not disassembly, modify (including replacing printed circuit boards) or replace without authorization, which may result in injury or failure.
- 2. Do not operate the product exceeding the parameters (limited value), and do not use it for flammable or harmful liquids, which may cause fire, malfunction or damage to the product. Please verify the instructions before use.
- 3. Do not operate in an environment containing flammable and explosive gases, which may cause fire or explosion. This product is not designed of explosion–proof.
- 4. If use this product in the interlocking circuit:
 - (1) Provide double interlocking systems, such as mechanical system;
 - (2) Check regularly whether the product is operating normally; Otherwise, malfunctions may occur and lead to accidents.
- 5. The following instructions must be followed during maintenance: (1) turn off the power; (2) stop providing gas, remove the remaining pressure and make sure that there is no air supply before maintenance; Otherwise, it may cause injury.
- 6. After the maintenance is completed, perform proper functional checks. If the equipment does not work properly, Please stop the operation. In case of unexpected failure, safety cannot be guaranteed.
- 7. The product designed used for industries. Except under industrial environments, when used under environments such as: mixed commercial and residential areas, measures must be taken to prevent ratio interference.
- 8. The bus manifold and power cord must be functionally grounded to ensure the safety and anti-noise performance of the fieldbus system.
- 9. IO-Lirık valve terminal provides the load voltage through the B-type port, using A-type port, adding power supply should be provided.





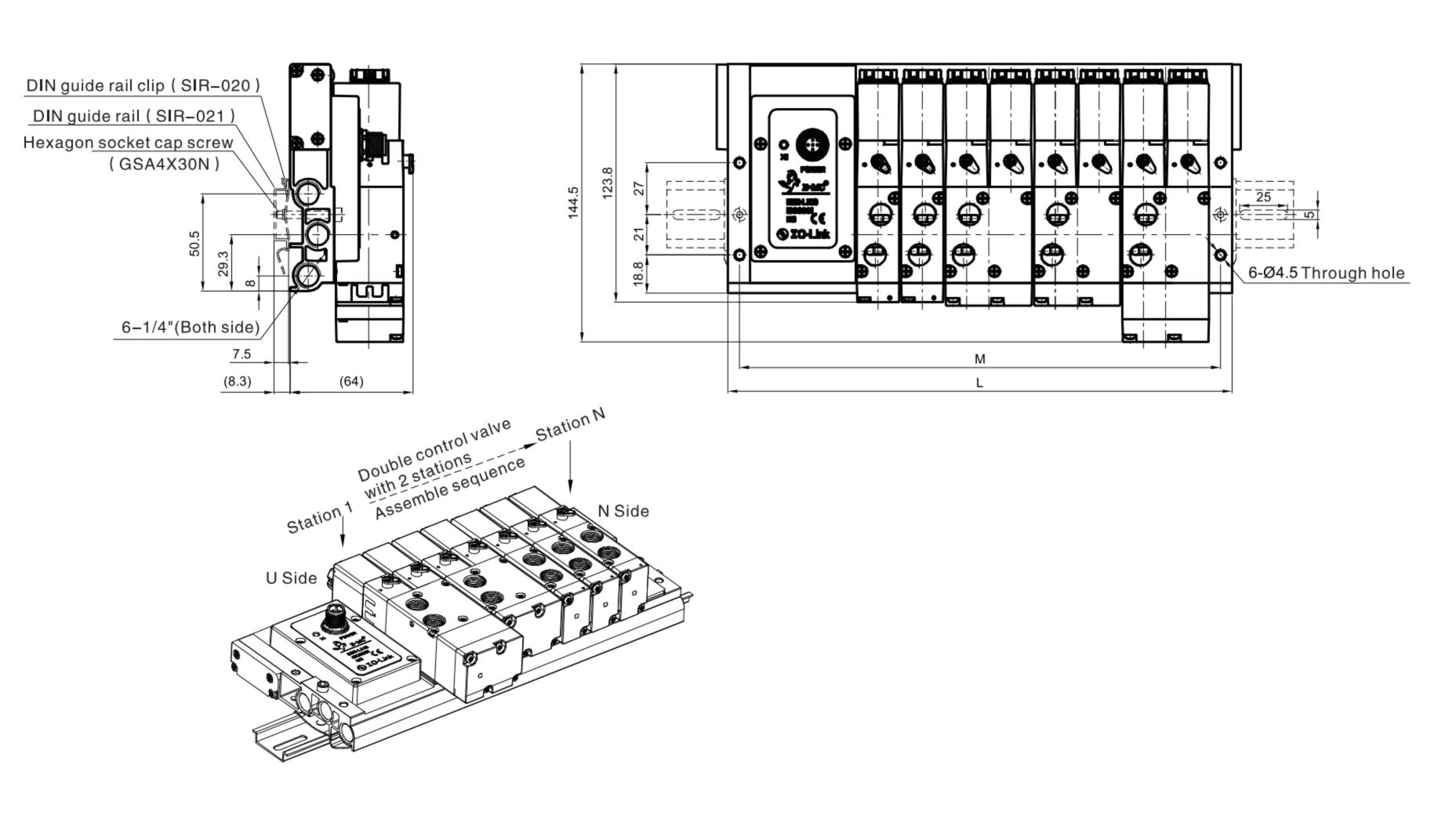
ES1R Series



Note: N means valve link

Sign	ES1R3S	ES1R4S	ES1R5S	ES1R6S	ES1R7S	ES1R8S	ES1R9S	ES1R10S	ES1R11S	ES1R12S	ES1R13S	ES1R14S	ES1R15S	ES1R16S
L	123	142	161	180	199	218	237	256	275	294	313	332	351	370
М	133	152	171	190	209	228	247	266	285	304	323	342	361	380

ES2R Series



Note: N means valve link

Sign Model	ES2R3S	ES2R4S	ES2R5S	ES2R6S	ES2R7S	ES2R8S	ES2R9S	ES2R10S	ES2R11S	ES2R12S	ES2R13S	ES2R14S	ES2R15S	ES2R16S
L	135	158	181	204	227	250	273	296	319	342	365	388	411	434
М	147	170	193	216	239	262	285	308	331	354	377	400	423	446