

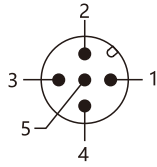
ESR Series Valve Terminal

Specifications

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

Interface

Interface (M12, code A, Class B)

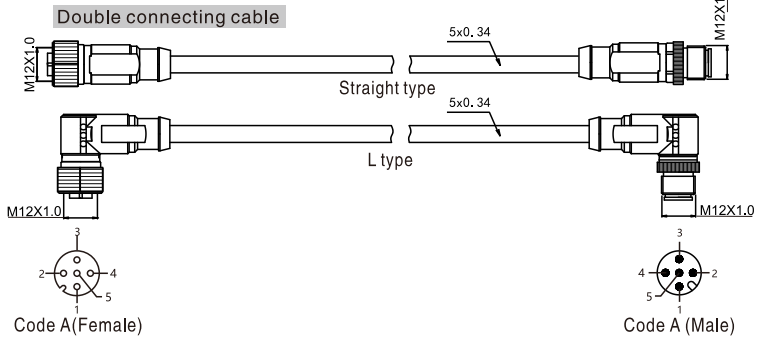
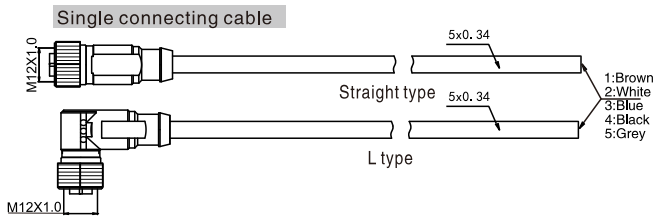
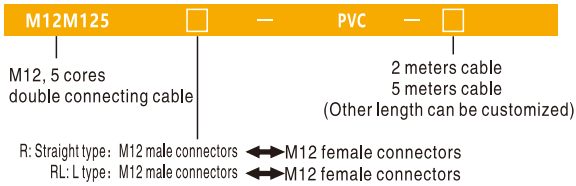
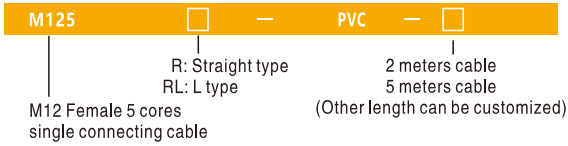


Pin	Type	Description
1	PS24	Control working voltage +24V
2	PL24	Working voltage of load valve +24V
3	PS0	Control working voltage 0V
4	C/Q	Data communication (IO-Link)
5	PLO	Working voltage of load valve 0V

LED Indicators

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

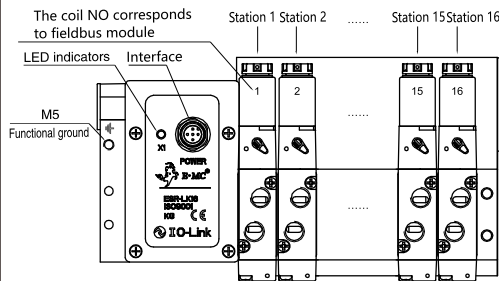
Wiring



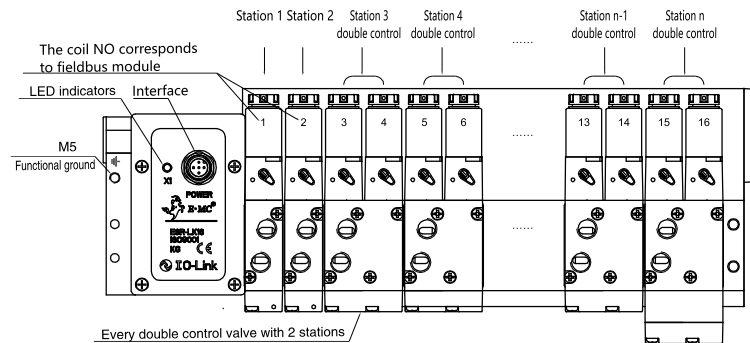
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Wiring Diagram

Single control wiring (Max. 16 stations)



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



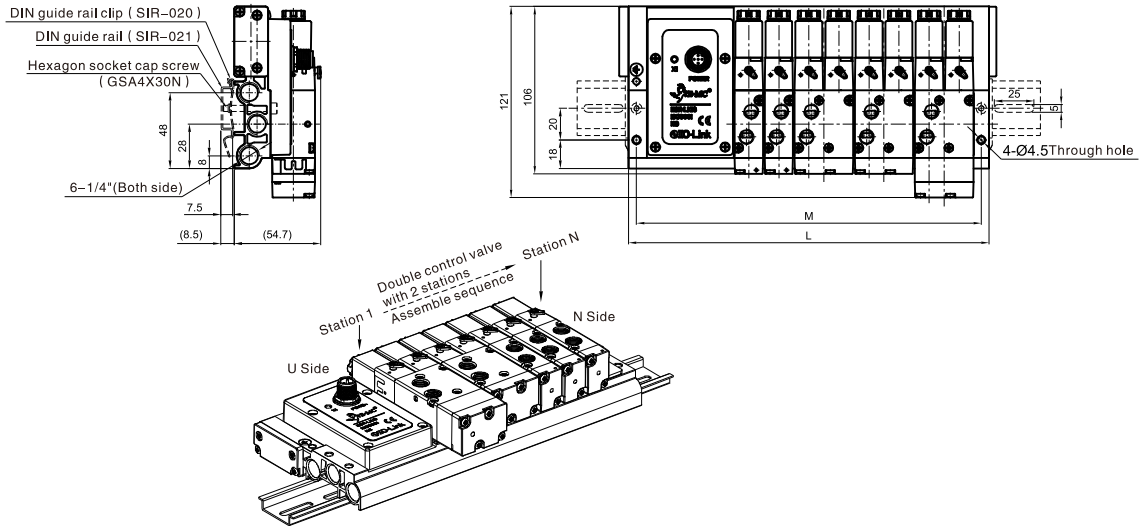
Precautions for Use

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 radio 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-Link valve terminal provides the load voltage through the B-type port, using A-type port, adding power supply should be provided.

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Main Dimension

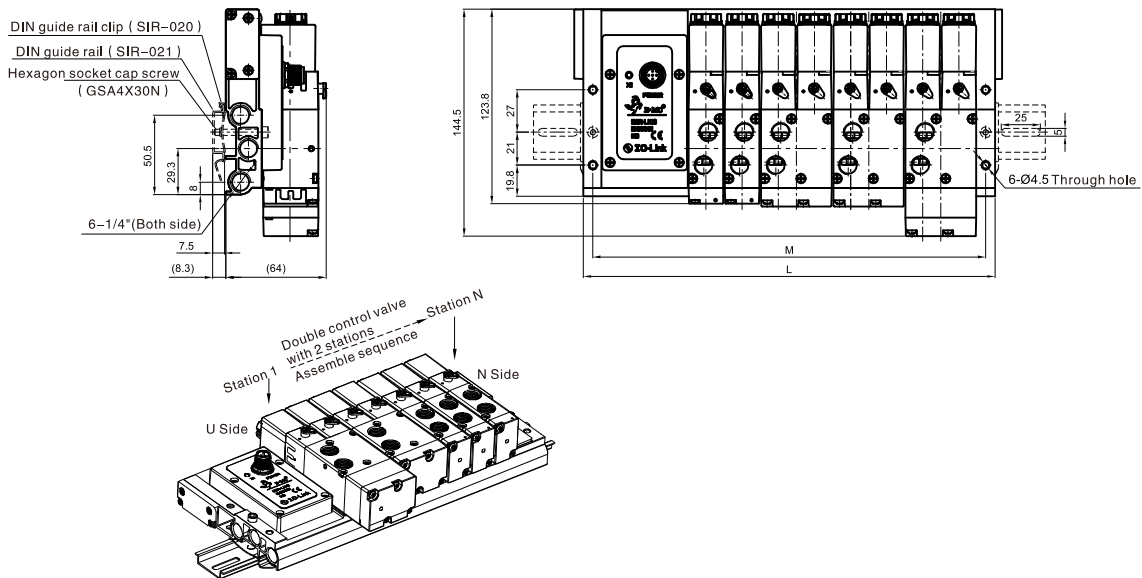
ES1R Series



Note: N means valve link

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

ES2R Series



Note: N means valve link

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