



User Manual

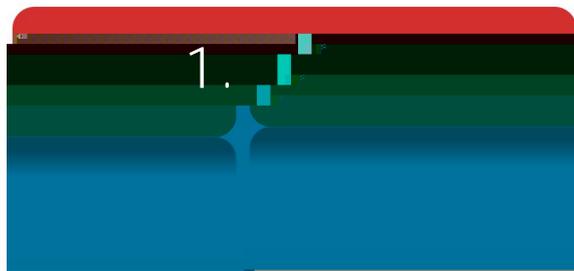


MR

IO

PROFINET_RT
Remote IO Modul
IO

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1.1

1

2

PROFINET® PI

3

4

1.2

IP20

1.3

V1.0	2021.11.03	

1.4

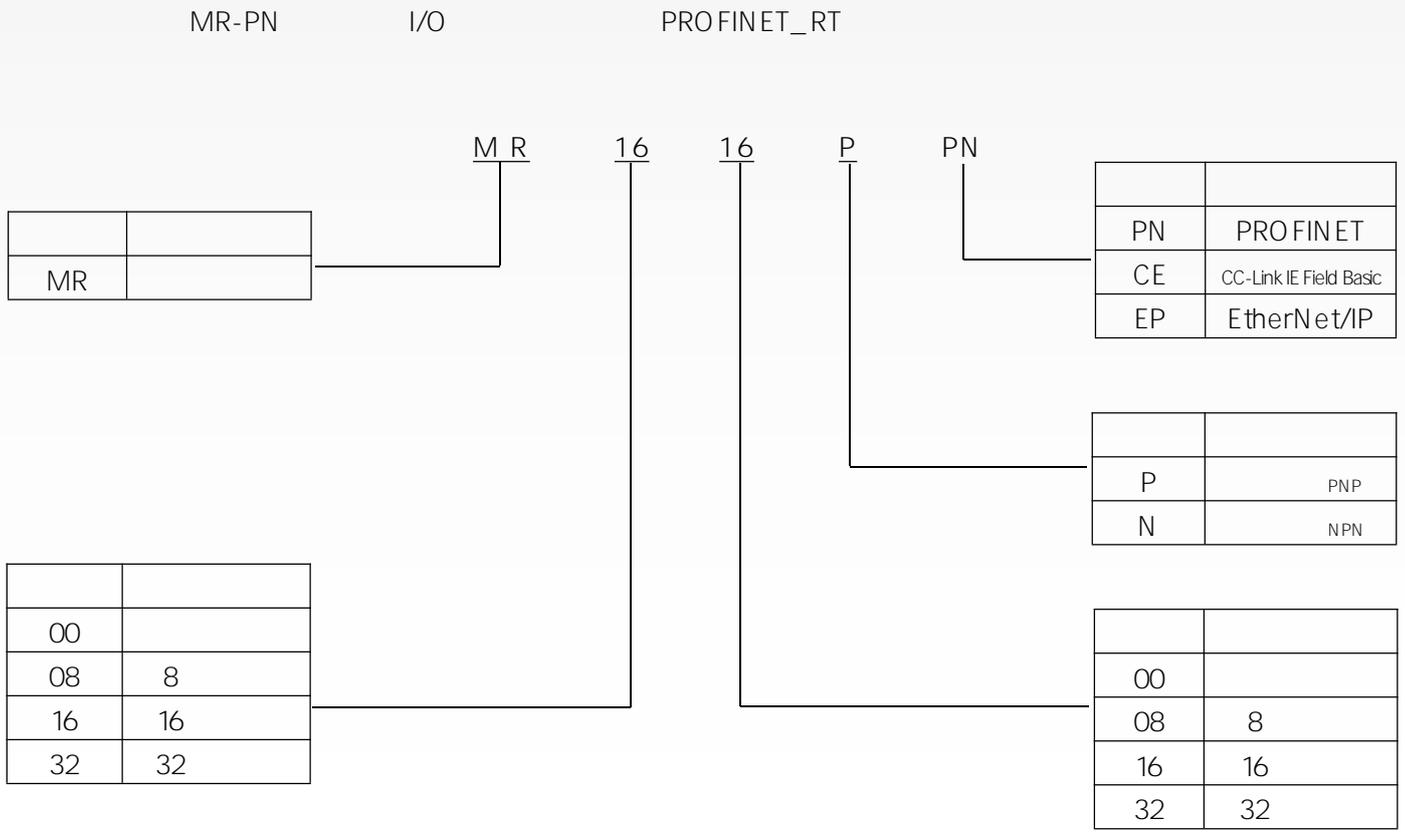
IEC11631-22007 Programmable controllers –Part 2:Equipment requirements and tests

IEC/TR 61158 -

IEC61784-1 -

PNO -7.352, PROFINET IO Device Integration, Guideline for PROFINET, Version 1.0, October 2014,PROFIBUS & PROFINET International, Order Number 7.352

2.1



1	MR0016P-PN	16	PNP	PROFINET_RT	2×RJ45	
2	MR0032P-PN	32	PNP	PROFINET_RT	2×RJ45	
3	MR0808P-PN	8	8	PNP	PROFINET_RT	2×RJ45
4	MR1600P-PN	16	PNP	PROFINET_RT	2×RJ45	
5	MR1616P-PN	16	16	PNP	PROFINET_RT	2×RJ45
6	MR3200P-PN	32	PNP	PROFINET_RT	2×RJ45	
7	MR0016N-PN	16	NPN	PROFINET_RT	2×RJ45	
8	MR0032N-PN	32	NPN	PROFINET_RT	2×RJ45	
9	MR0808N-PN	8	8	NPN	PROFINET_RT	2×RJ45
10	MR1600N-PN	16	NPN	PROFINET_RT	2×RJ45	
11	MR1616N-PN	16	16	NPN	PROFINET_RT	2×RJ45
12	MR3200N-PN	32	NPN	PROFINET_RT	2×RJ45	

1 PROFINET_RT I/O

2.2 MR-PN

MR-PN

2.2.1 DI

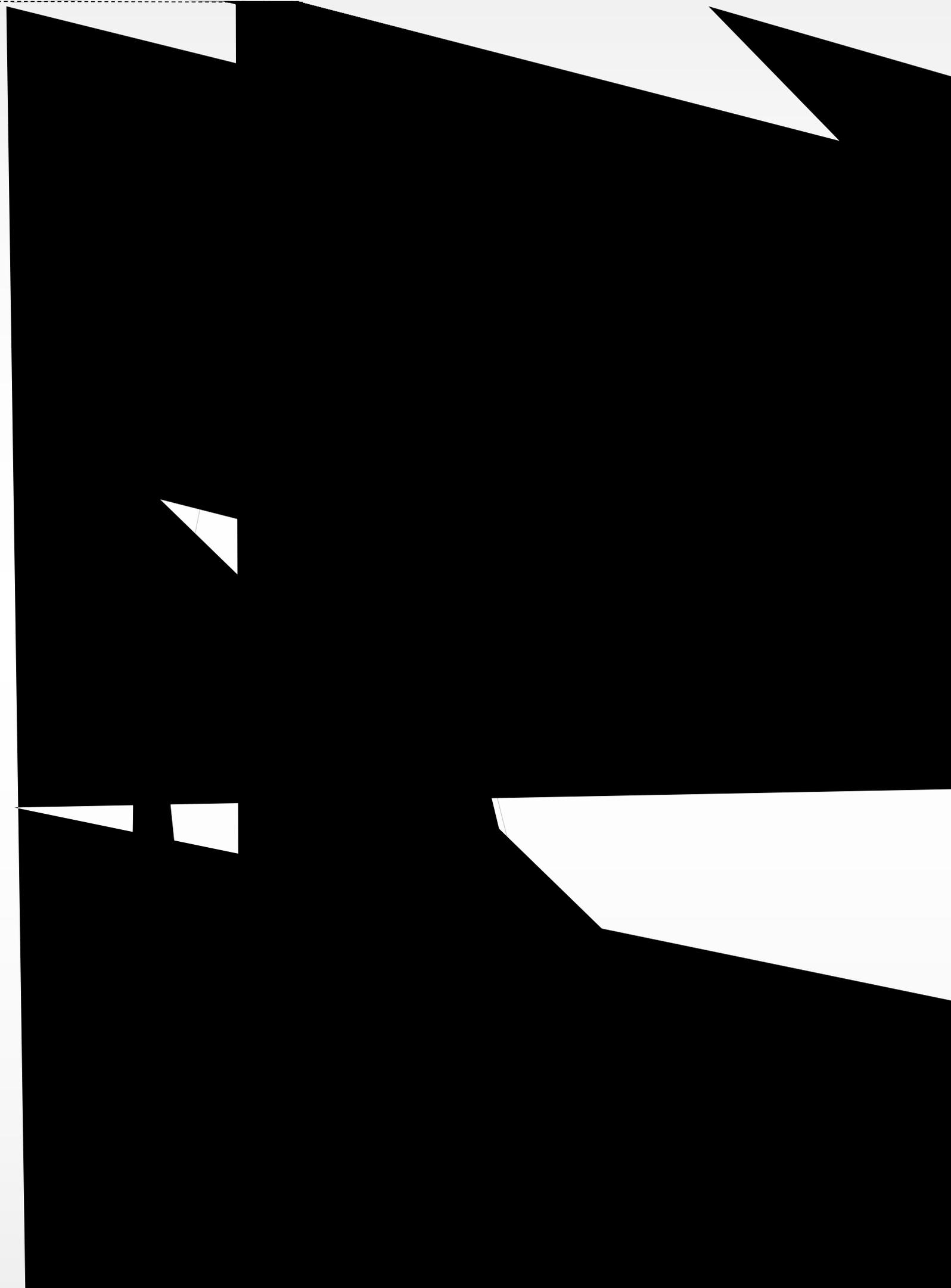
	DI	2
1		16
2		2 bytes
3	Ton	Type. 18uS / Max. 35uS
4	Toff	Type. 135uS / Max. 250uS
5		
6		E-CON
7		24 V DC (-15 %/+ 20 %), (IEC 61131-2, type 2)
8	"0"	-3...+5 V (IEC 61131-2, type 2)
9	"1"	15...30 V (IEC 61131-2, type 2)
10		Typ. 10mA/Ch (IEC 61131-2, type 2)
11		/ 500V DC

2

2.2.2 DQ

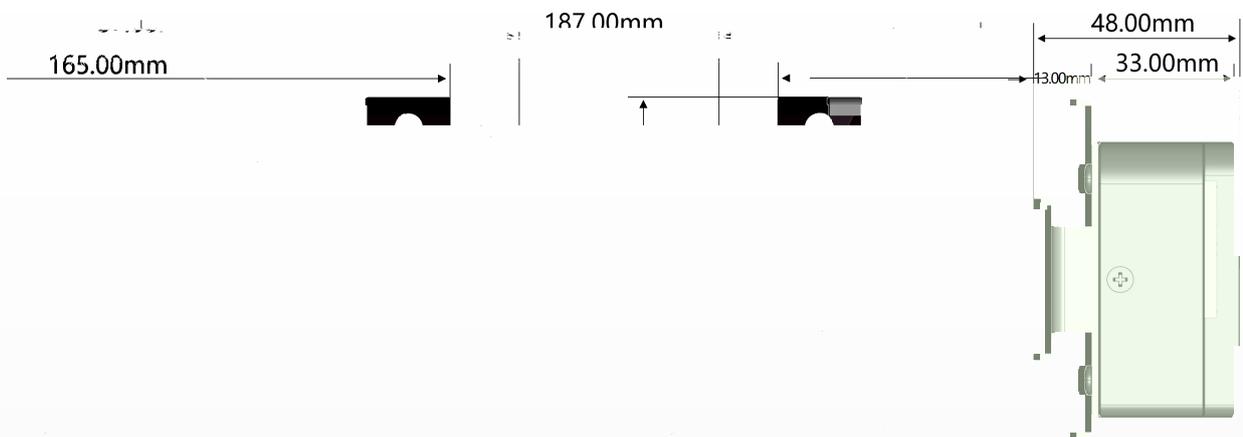
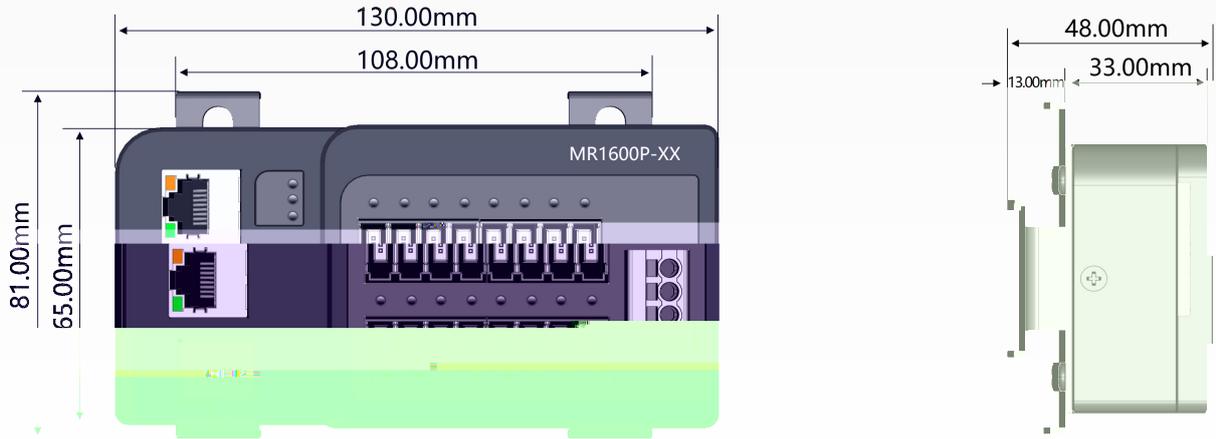
	MOSFET	DQ	3
1			16
2			2 bytes
3	Ton		Type. 12uS / Max. 25uS
4	Toff		Type. 10mS / Max. 20mS ()
5			
6			E-CON
7			
8			24 V DC (-15 %/+ 20 %), (IEC 61131-2, type 2)
9			Max. 0.5 A /Ch,
10			1 4-Pin

3 MOSFET

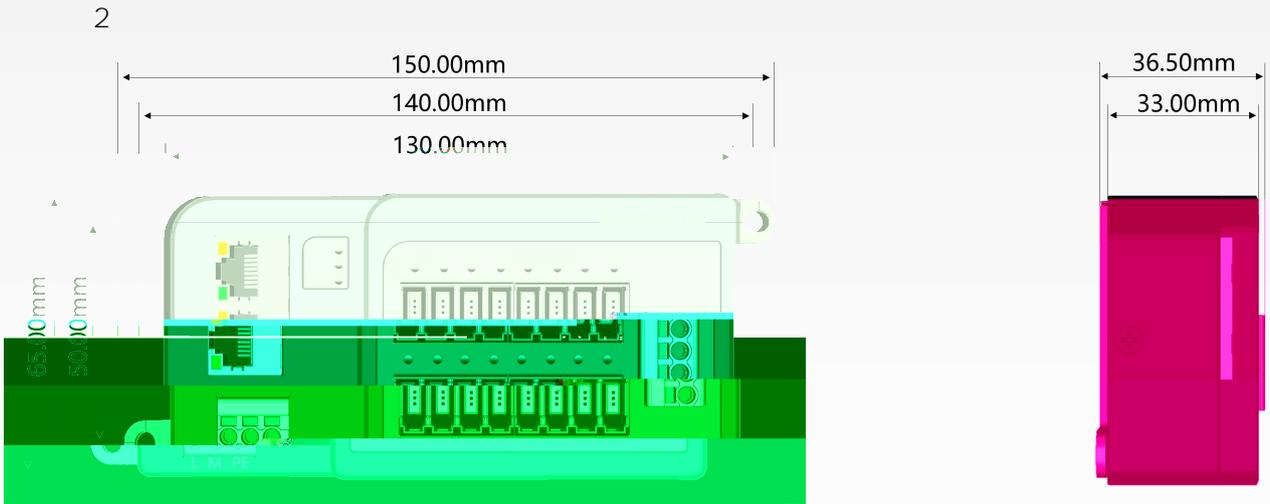


3.1

0



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3 150 *65 W/H mm



4 1--207 *65 W/H mm

3.2

25 mm

75 mm

DIN

TS35/7.5

5

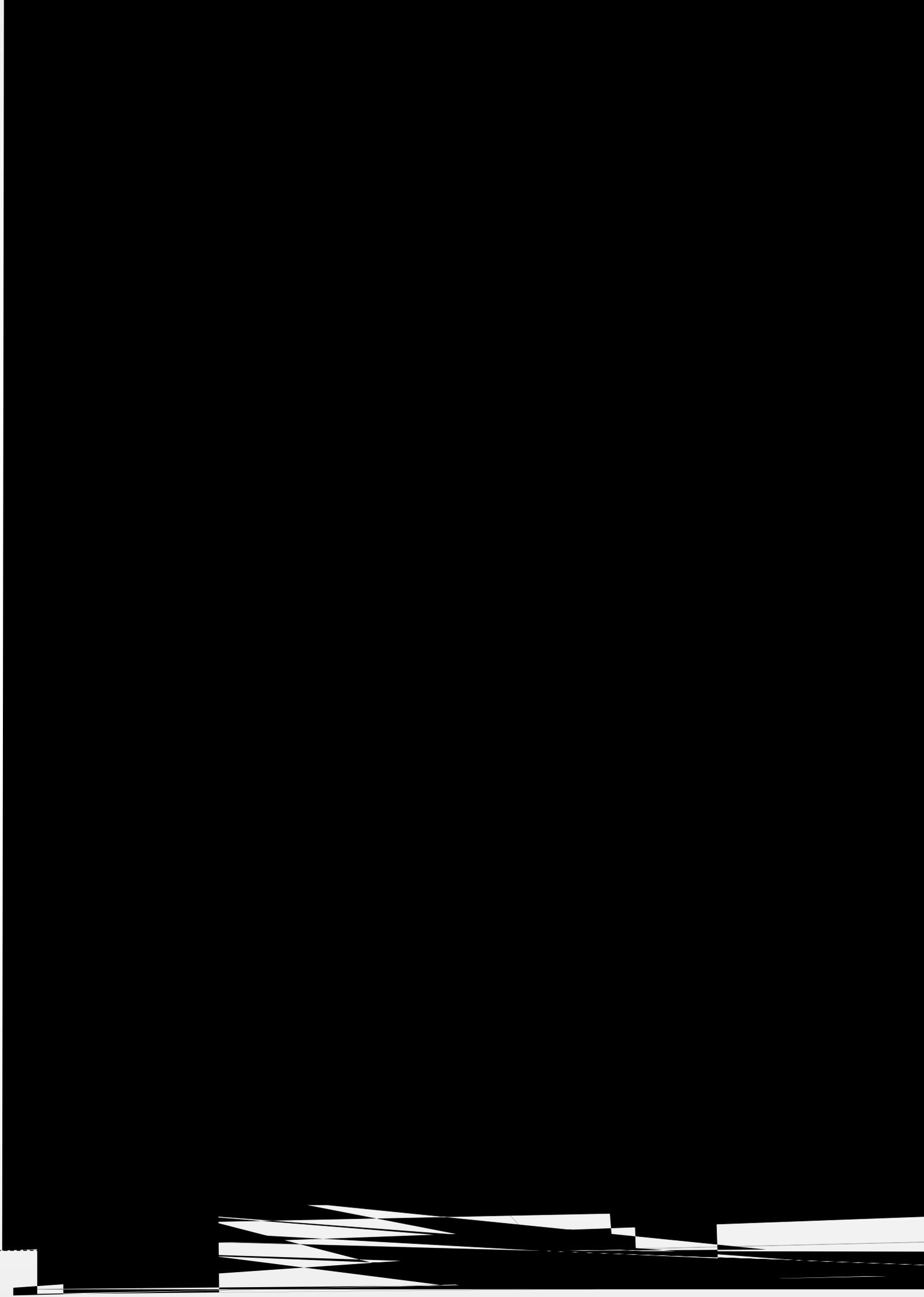
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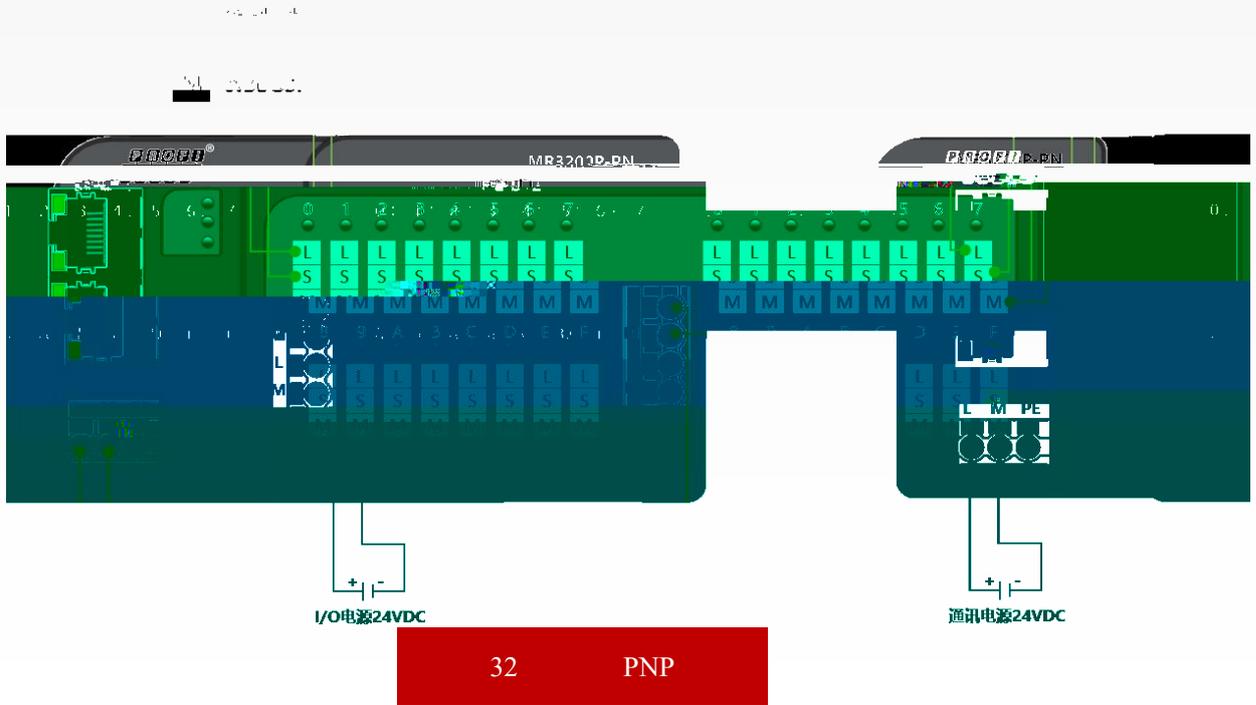


5 DIN



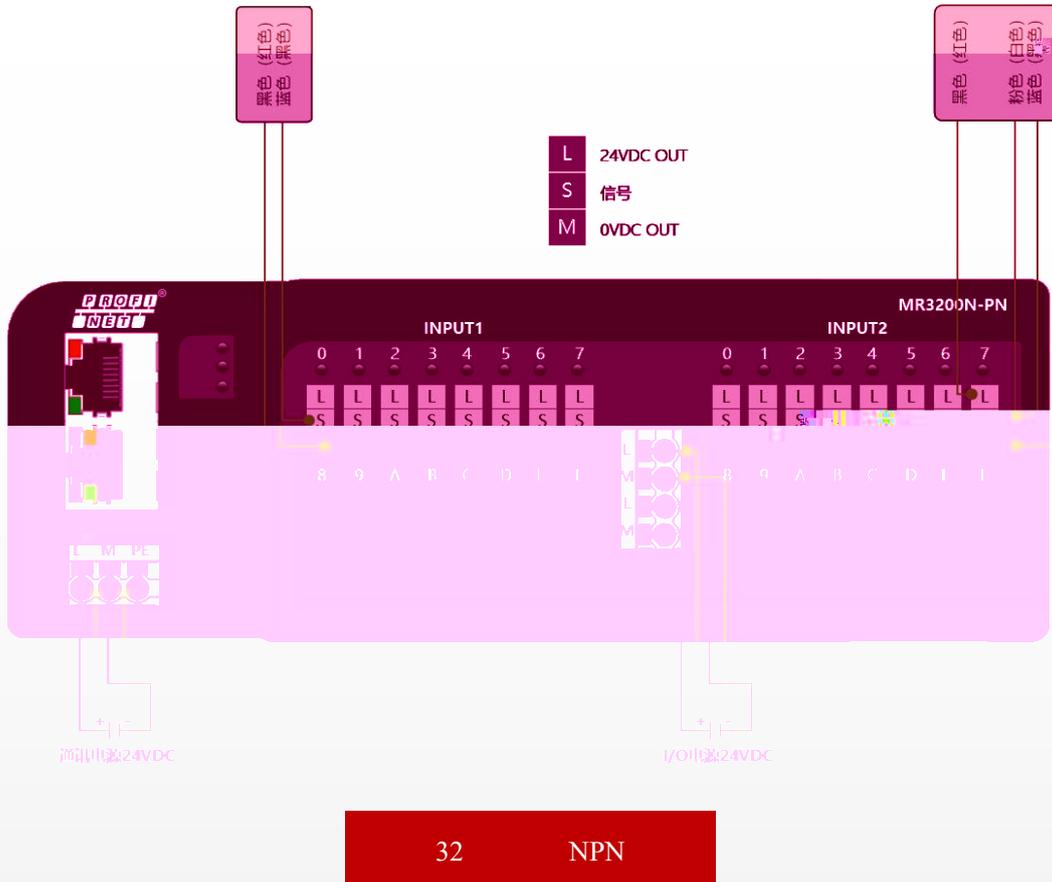
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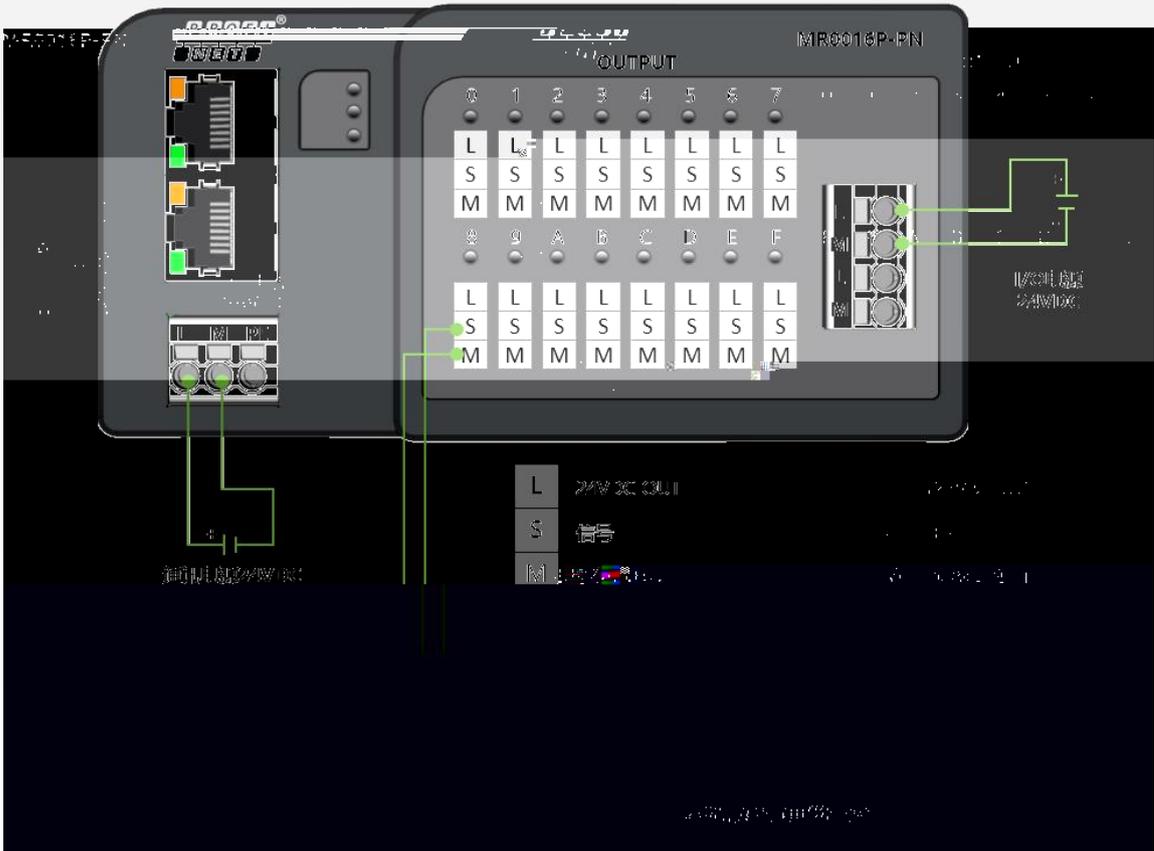




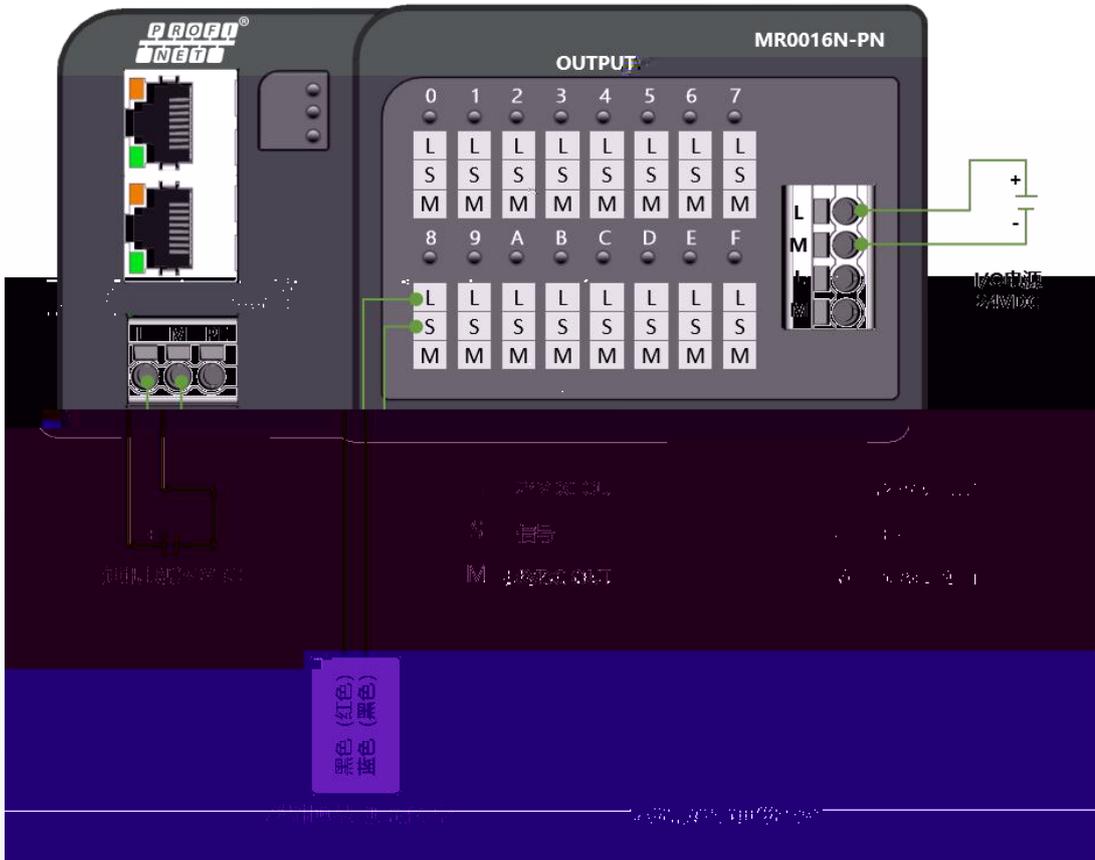
2线制传感器 (限位开关等)

3线制NPN传感器 (光电传感器/接近开关等)

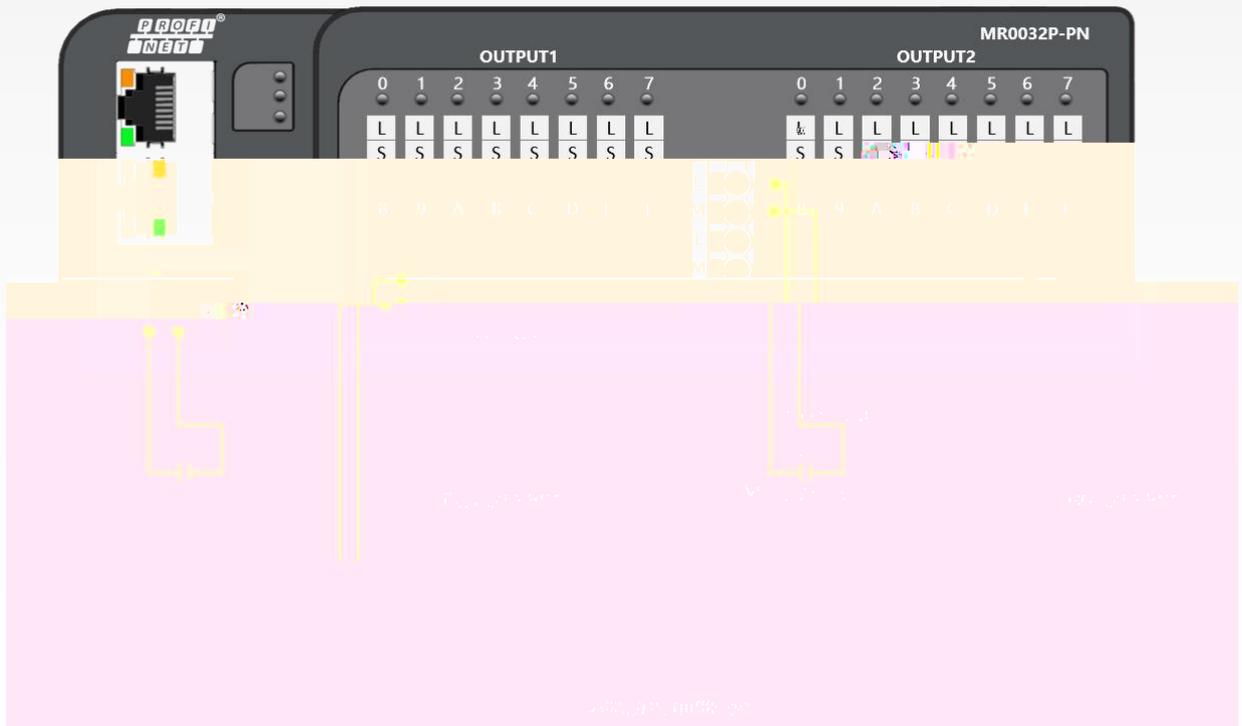




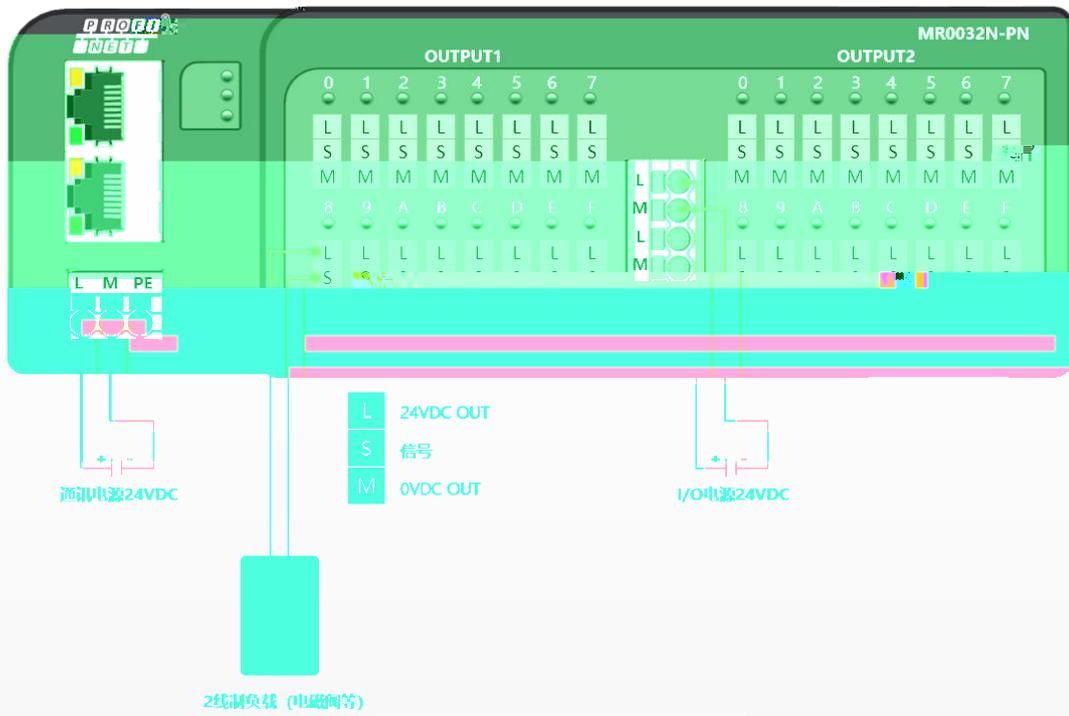
16 PNP



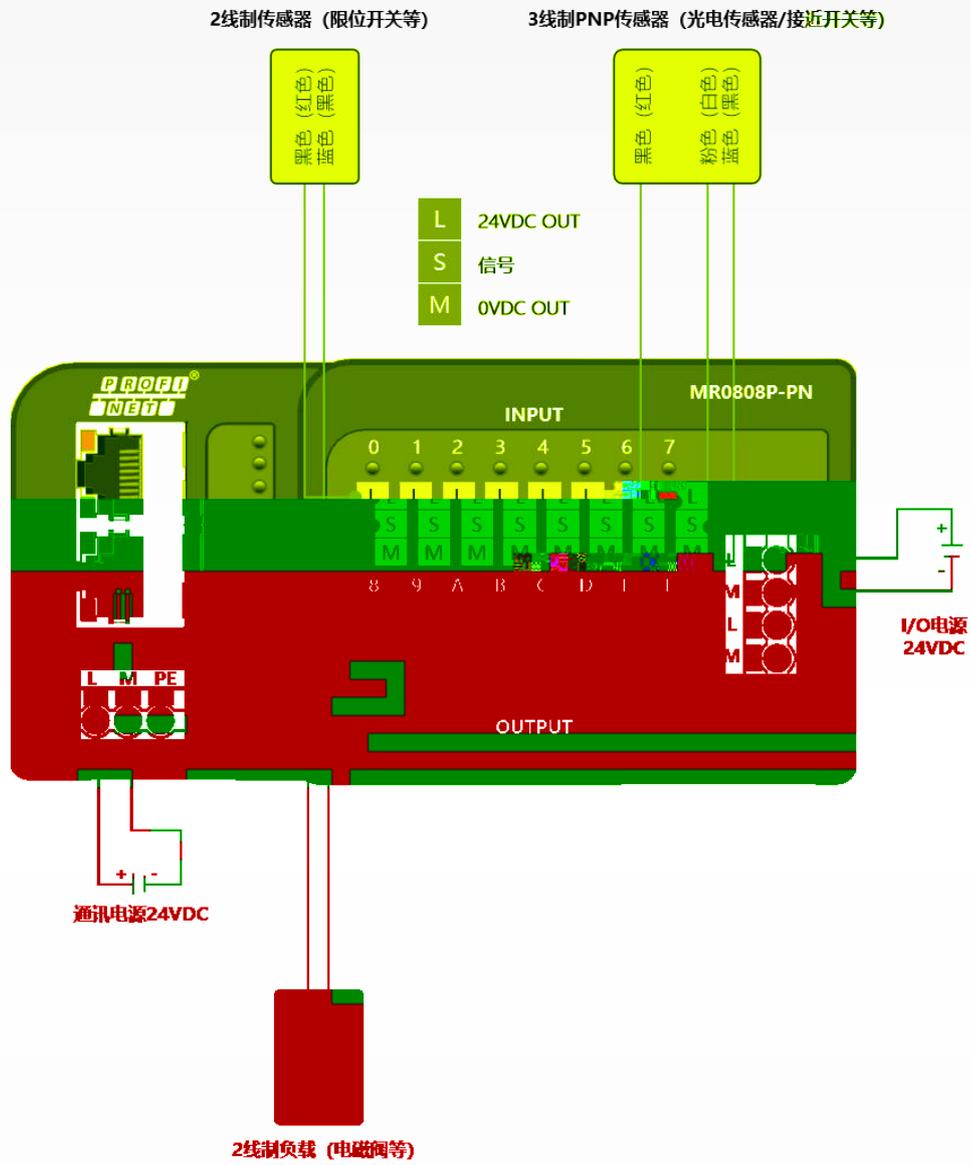
16 NPN



32 PNP



32 NPN

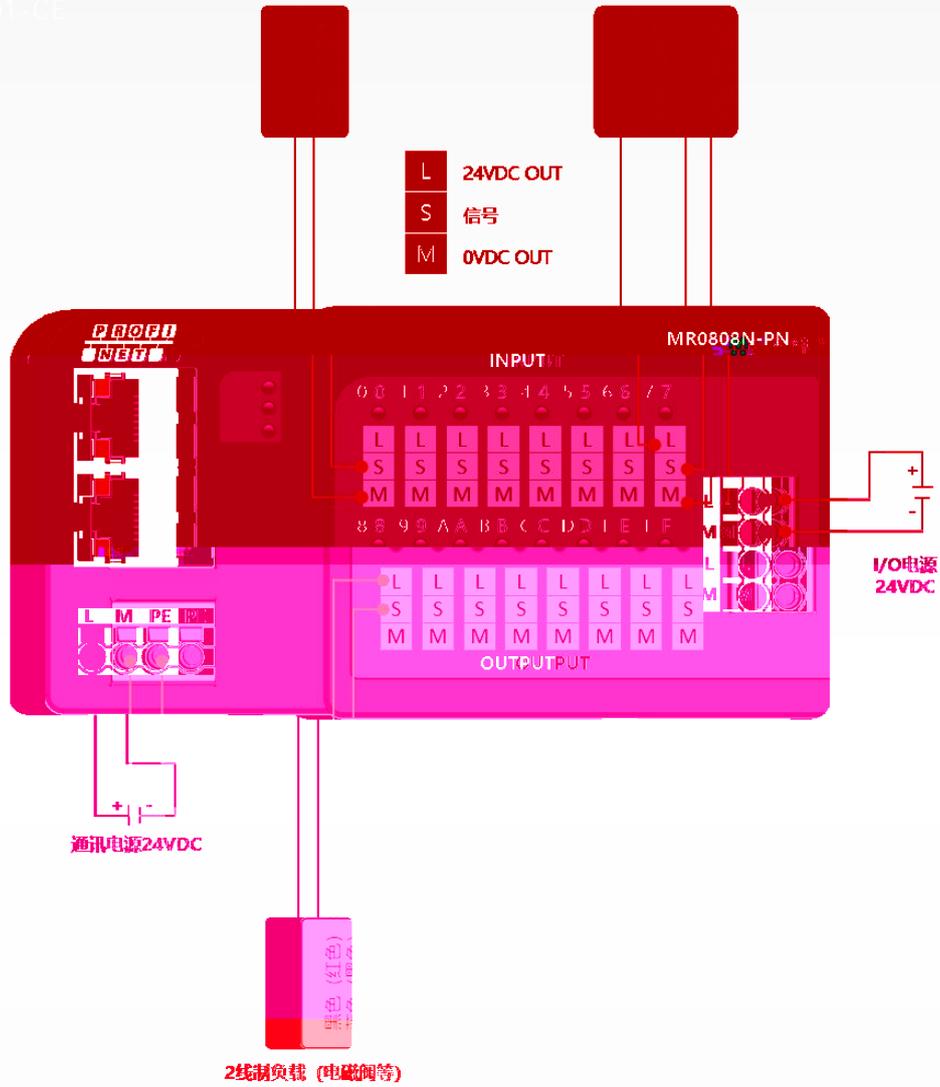


8 8 PNP

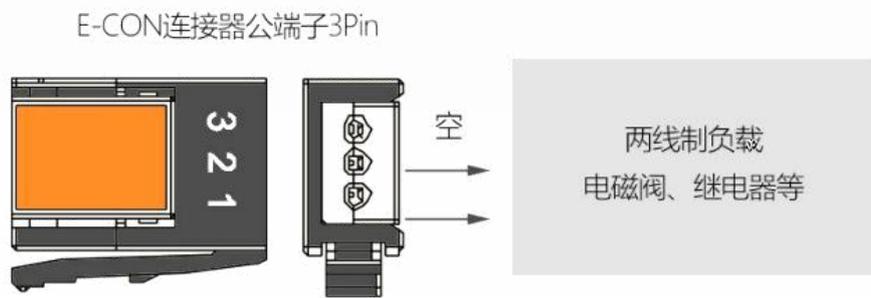
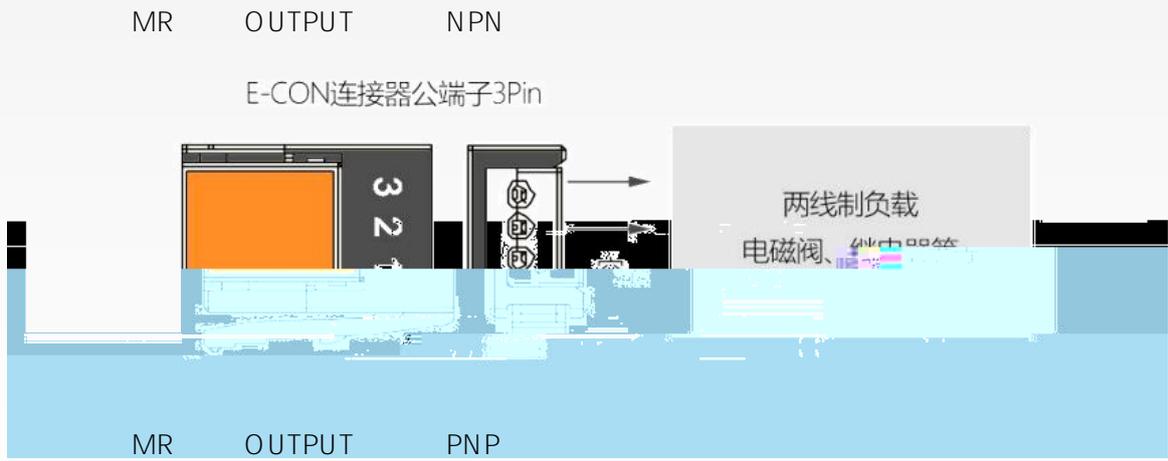
MR5101-CE

2线制传感器 (限位开关等)

3线制NPN传感器 (光电传感器/接近开关等)



8 8 NPN



4.2.2 e-CON



连接限制列表

如选型不匹配将会影响接线效果，导致信号不良，务必仔细核实！

外端	压盖颜色	线缆外径 (mm)	导体端
1	蓝色	0.8-1.0	AWG24-26
2	蓝色	0.8-1.0	AWG24-26
3	蓝色	0.8-1.0	AWG24-26
4	蓝色	0.8-1.0	AWG24-26
5	蓝色	0.8-1.0	AWG24-26
6	蓝色	0.8-1.0	AWG24-26
7	蓝色	0.8-1.0	AWG24-26
8	蓝色	0.8-1.0	AWG24-26
9	蓝色	0.8-1.0	AWG24-26
10	蓝色	0.8-1.0	AWG24-26
11	蓝色	0.8-1.0	AWG24-26
12	蓝色	0.8-1.0	AWG24-26
13	蓝色	0.8-1.0	AWG24-26
14	蓝色	0.8-1.0	AWG24-26
15	蓝色	0.8-1.0	AWG24-26
16	蓝色	0.8-1.0	AWG24-26
17	蓝色	0.8-1.0	AWG24-26
18	蓝色	0.8-1.0	AWG24-26
19	蓝色	0.8-1.0	AWG24-26
20	蓝色	0.8-1.0	AWG24-26
21	蓝色	0.8-1.0	AWG24-26
22	蓝色	0.8-1.0	AWG24-26
23	蓝色	0.8-1.0	AWG24-26
24	蓝色	0.8-1.0	AWG24-26
25	蓝色	0.8-1.0	AWG24-26
26	蓝色	0.8-1.0	AWG24-26
27	蓝色	0.8-1.0	AWG24-26
28	蓝色	0.8-1.0	AWG24-26
29	蓝色	0.8-1.0	AWG24-26
30	蓝色	0.8-1.0	AWG24-26
31	蓝色	0.8-1.0	AWG24-26
32	蓝色	0.8-1.0	AWG24-26
33	蓝色	0.8-1.0	AWG24-26
34	蓝色	0.8-1.0	AWG24-26
35	蓝色	0.8-1.0	AWG24-26
36	蓝色	0.8-1.0	AWG24-26
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38	蓝色	0.8-1.0	AWG24-26
39	蓝色	0.8-1.0	AWG24-26
40	蓝色	0.8-1.0	AWG24-26
41	蓝色	0.8-1.0	AWG24-26
42	蓝色	0.8-1.0	AWG24-26
43	蓝色	0.8-1.0	AWG24-26
44	蓝色	0.8-1.0	AWG24-26
45	蓝色	0.8-1.0	AWG24-26
46	蓝色	0.8-1.0	AWG24-26
47	蓝色	0.8-1.0	AWG24-26
48	蓝色	0.8-1.0	AWG24-26
49	蓝色	0.8-1.0	AWG24-26
50	蓝色	0.8-1.0	AWG24-26
51	蓝色	0.8-1.0	AWG24-26
52	蓝色	0.8-1.0	AWG24-26
53	蓝色	0.8-1.0	AWG24-26
54	蓝色	0.8-1.0	AWG24-26
55	蓝色	0.8-1.0	AWG24-26
56	蓝色	0.8-1.0	AWG24-26
57	蓝色	0.8-1.0	AWG24-26
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59	蓝色	0.8-1.0	AWG24-26
60	蓝色	0.8-1.0	AWG24-26
61	蓝色	0.8-1.0	AWG24-26
62	蓝色	0.8-1.0	AWG24-26
63	蓝色	0.8-1.0	AWG24-26
64	蓝色	0.8-1.0	AWG24-26
65	蓝色	0.8-1.0	AWG24-26
66	蓝色	0.8-1.0	AWG24-26
67	蓝色	0.8-1.0	AWG24-26
68	蓝色	0.8-1.0	AWG24-26
69	蓝色	0.8-1.0	AWG24-26
70	蓝色	0.8-1.0	AWG24-26
71	蓝色	0.8-1.0	AWG24-26
72	蓝色	0.8-1.0	AWG24-26
73	蓝色	0.8-1.0	AWG24-26
74	蓝色	0.8-1.0	AWG24-26
75	蓝色	0.8-1.0	AWG24-26
76	蓝色	0.8-1.0	AWG24-26
77	蓝色	0.8-1.0	AWG24-26
78	蓝色	0.8-1.0	AWG24-26
79	蓝色	0.8-1.0	AWG24-26
80	蓝色	0.8-1.0	AWG24-26
81	蓝色	0.8-1.0	AWG24-26
82	蓝色	0.8-1.0	AWG24-26
83	蓝色	0.8-1.0	AWG24-26
84	蓝色	0.8-1.0	AWG24-26
85	蓝色	0.8-1.0	AWG24-26
86	蓝色	0.8-1.0	AWG24-26
87	蓝色	0.8-1.0	AWG24-26
88	蓝色	0.8-1.0	AWG24-26
89	蓝色	0.8-1.0	AWG24-26
90	蓝色	0.8-1.0	AWG24-26
91	蓝色	0.8-1.0	AWG24-26
92	蓝色	0.8-1.0	AWG24-26
93	蓝色	0.8-1.0	AWG24-26
94	蓝色	0.8-1.0	AWG24-26
95	蓝色	0.8-1.0	AWG24-26
96	蓝色	0.8-1.0	AWG24-26
97	蓝色	0.8-1.0	AWG24-26
98	蓝色	0.8-1.0	AWG24-26
99	蓝色	0.8-1.0	AWG24-26
100	蓝色	0.8-1.0	AWG24-26

4.6

	e-CON	16	O-F(8
0-7)				

4.7

	e-CON	16	O-F(8
0-7)		0.5A		



5.3

MRO016X-PN

BIT No	BIT 7	BIT 6	BIT 5	BIT 4	BIT 3	BIT 2	BIT 1	BIT 0
BYTE 0	IP							
BYTE 1	DO Error_ Mode	DO Error_ Mode	DO Error_ Mode	DO Error_ Mode	DO Error_ Mode	DO Error_ Mode	DO Error_ Mode	DO Error_ Mode
DO Error_ Mode bits 0-7	For 7	For 6	For 5	For 4	For 3	For 2	For 1	For 0
BYTE 2	DO Error Value For	DO Error Value For	DO Error Value For	DO Error Value For	DO Error Value For	DO Error Value For	DO Error Value For	DO Error Value For
DO Error Value bits 0-7	7	6	5	4	3	2	1	0
IP	DHCP config	-		0 1	0	(DHCP) 1	LAECONFIG	
				0		-IP		
	DO Error_ Mode bits	-		0-255	DQ0x	Bit0	DQ-0.0	bit "1"
				0	"Error Value[7..0]"	bit	"Error Mode"	bit DQ0x
	DO Error Value bits	-		0-255	"Error Mode[7..0]"		bit	D
				0	Q			

MR1600X-PN

MR1600X-PN								
BIT No	BIT 7	BIT 6	BIT 5	BIT 4	BIT 3	BIT 2	BIT 1	BIT 0
BYTE 0	IP							
BYTE 1	Filter							
IP	DHCP config	-		0 1	0	(DHCP) 1	LAECONFIG	
				5		-IP		
	Filter	ms		0-255				
				5				

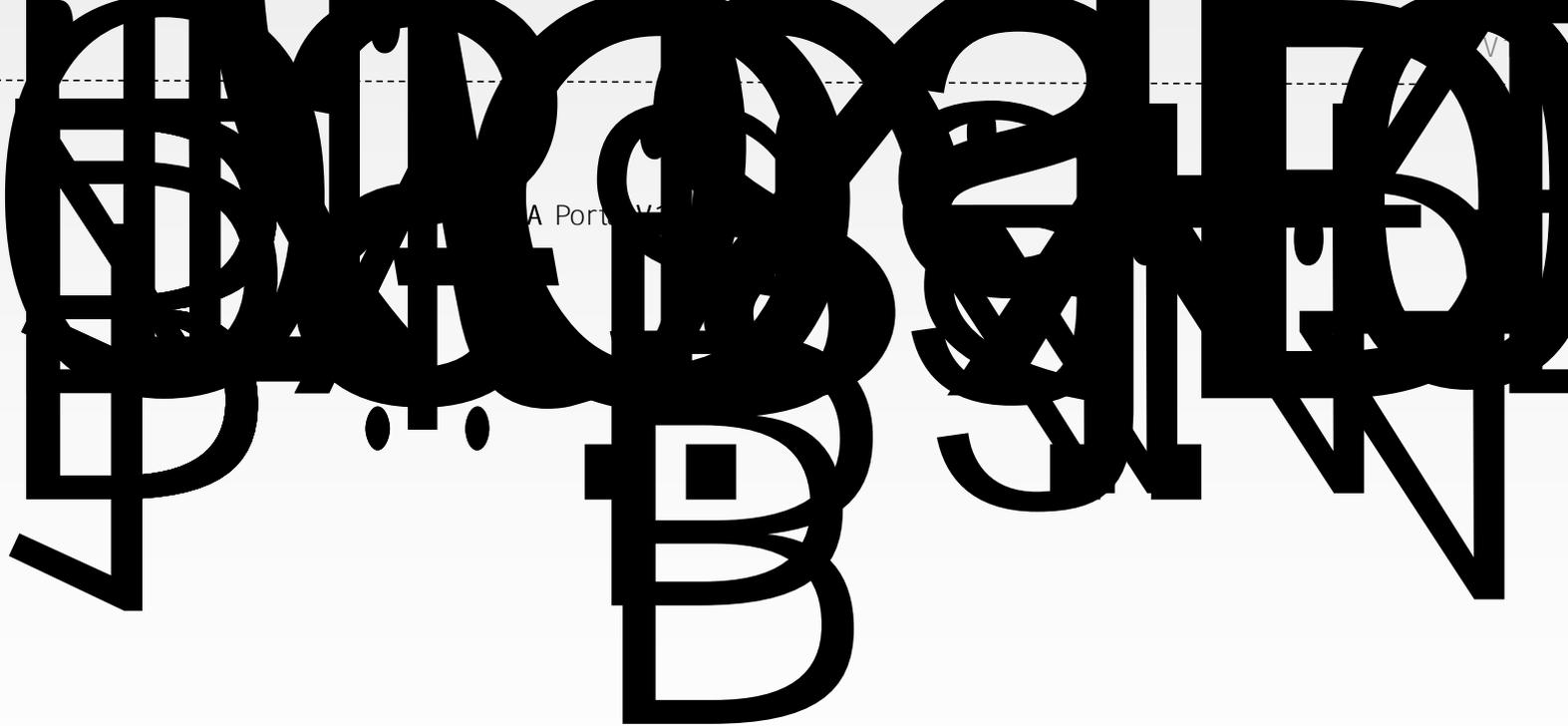
MR3200X-PN

MR3200X-PN								
BIT No	BIT 7	BIT 6	BIT 5	BIT 4	BIT 3	BIT 2	BIT 1	BIT 0
BYTE 0	IP							
BYTE 1	Filter							
IP	DHCP config	-		0 1	0	(DHCP) 1	LAECONFIG	
				5		-IP		
	Filter	ms		0-255				
				5				

MR1616X-PN

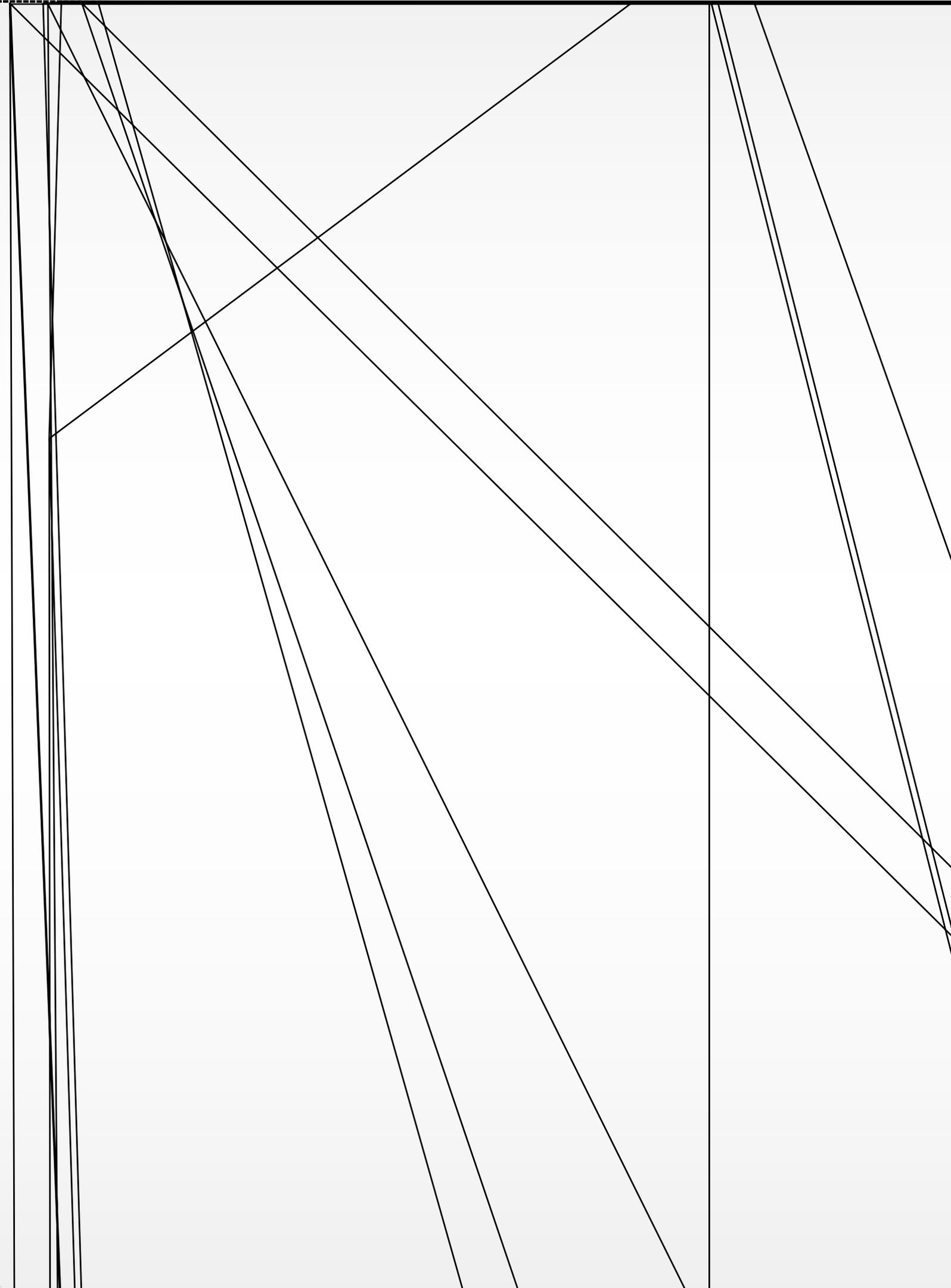
BIT No	BIT 7	BIT 6	BIT 5	BIT 4	BIT 3	BIT 2	BIT 1	BIT 0
BYTE 0				IP				
BYTE 1					Filter			
IP	DHCP config	-		0 1 5	0	(DHCP)1 -IP		LAECONFIG





A Port...





6.1.3GSD

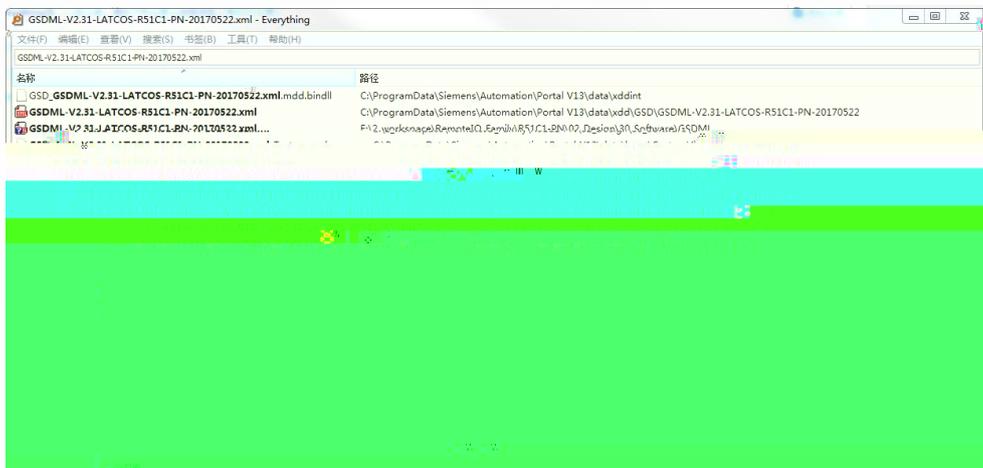
TIA Portal V13

GSD

Everything

- 1 Everything
- 2 TIA Portal V13
- 3 Everything

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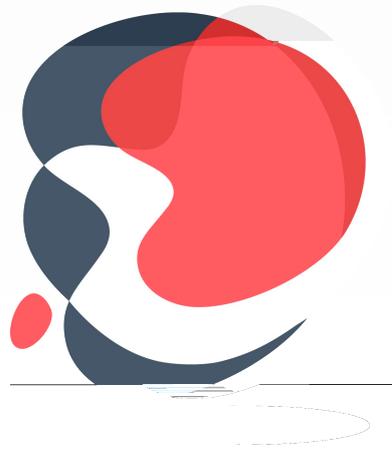
7-5 Everything

4 " "

" "

GSD

GSD



7.1/0

7.1

V14

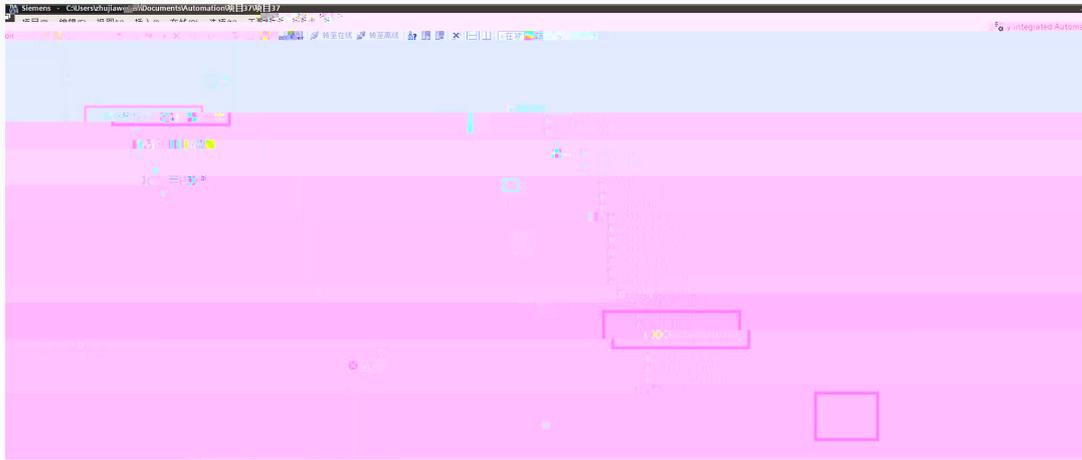
IO

S7-1500

SIMATIC S7-1500

1511T

CPU



IP CPU 1500 192.168.0.1

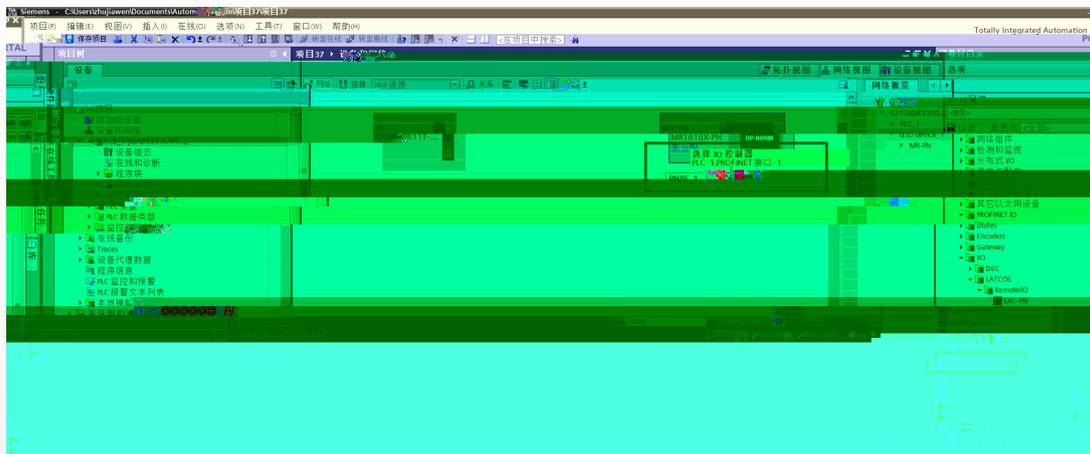


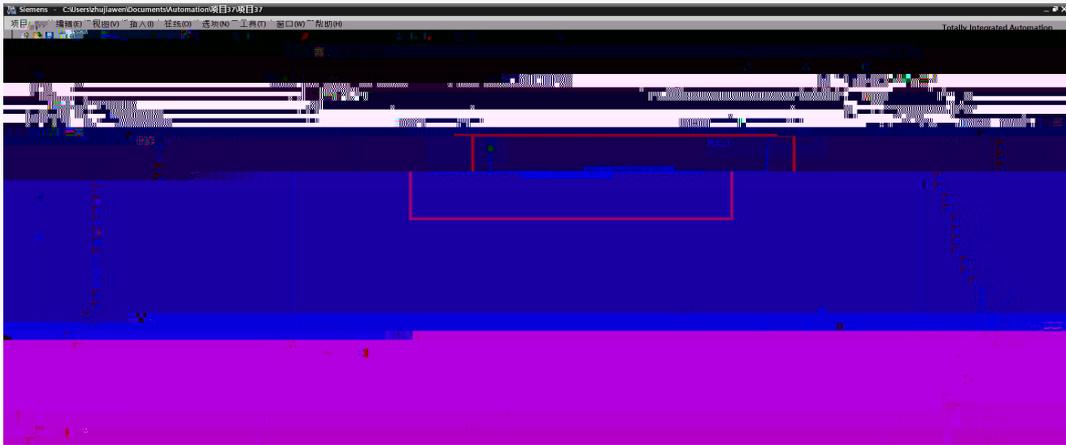
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MR1616X-PN

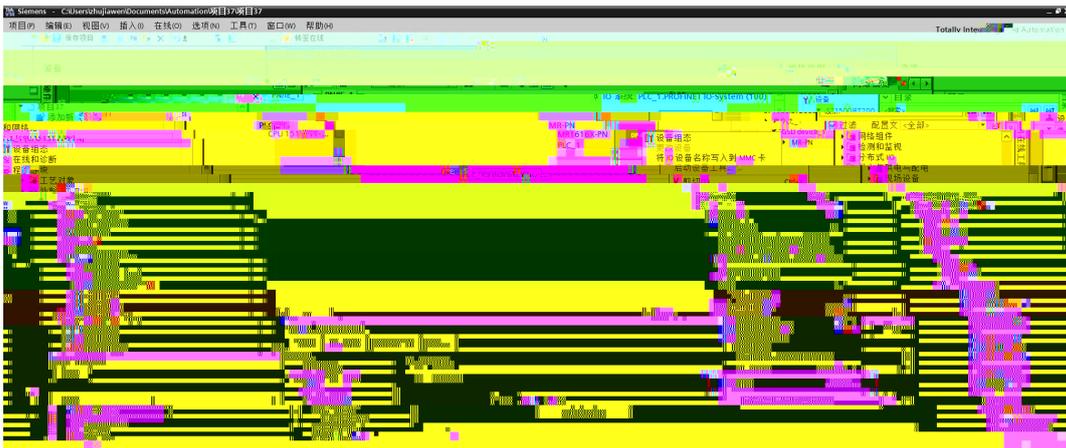
MR1616X-PN

I/O





IO



IP
MAC
IP
profinet

