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Document name: Electrical drawings PRmk9 v9.0 Stand alone
Mounting location: Column
Type: Stand alone, Standard

Power supply: See specification sheet
Control voltage: 24VDC
According to: NEN-EN-IEC 60204-1: 2018

Version number: v9.0



Description of the project
Prorunner mk9
Stand alone, Standard

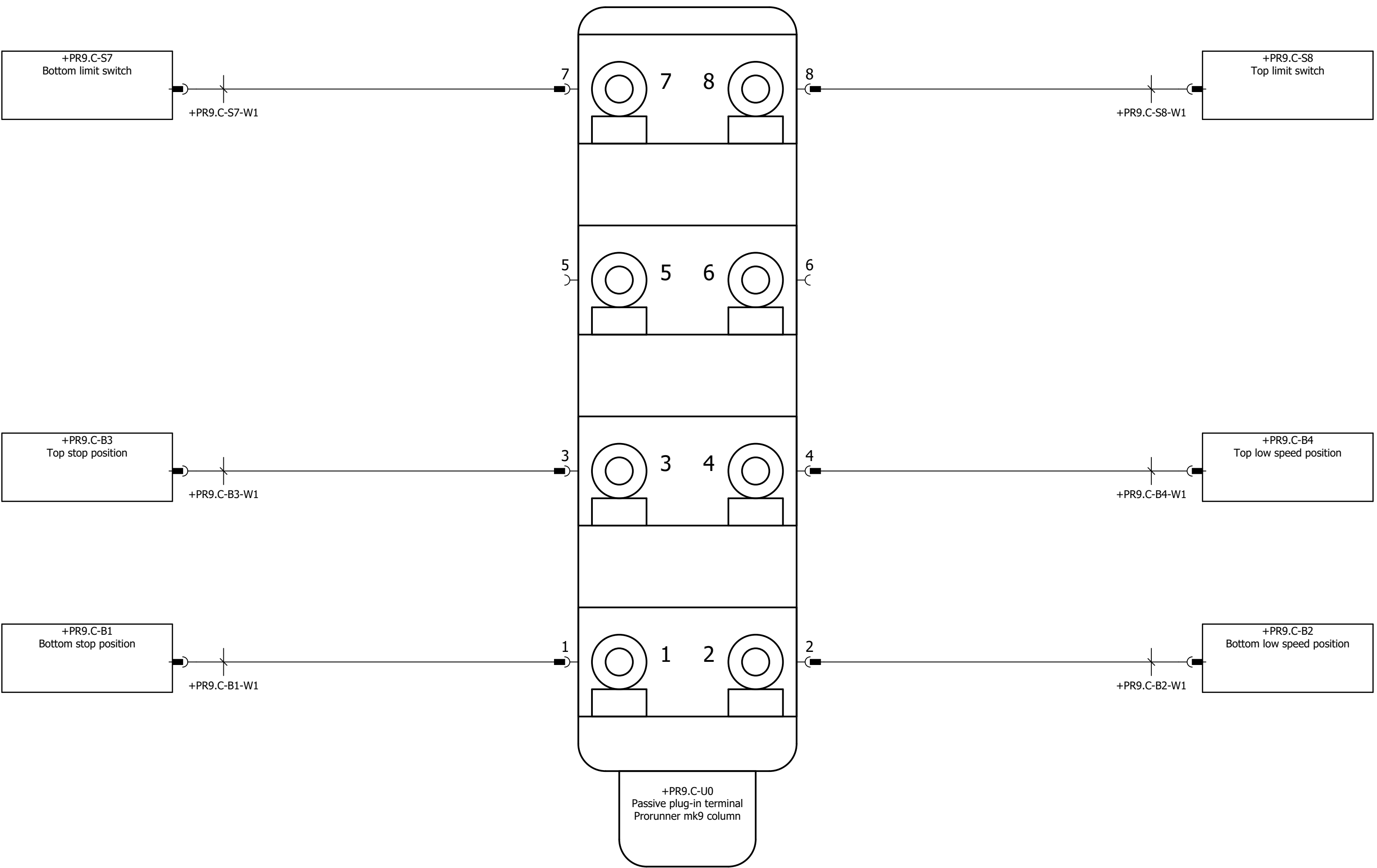
Mounting location
Column

Page description
Title page

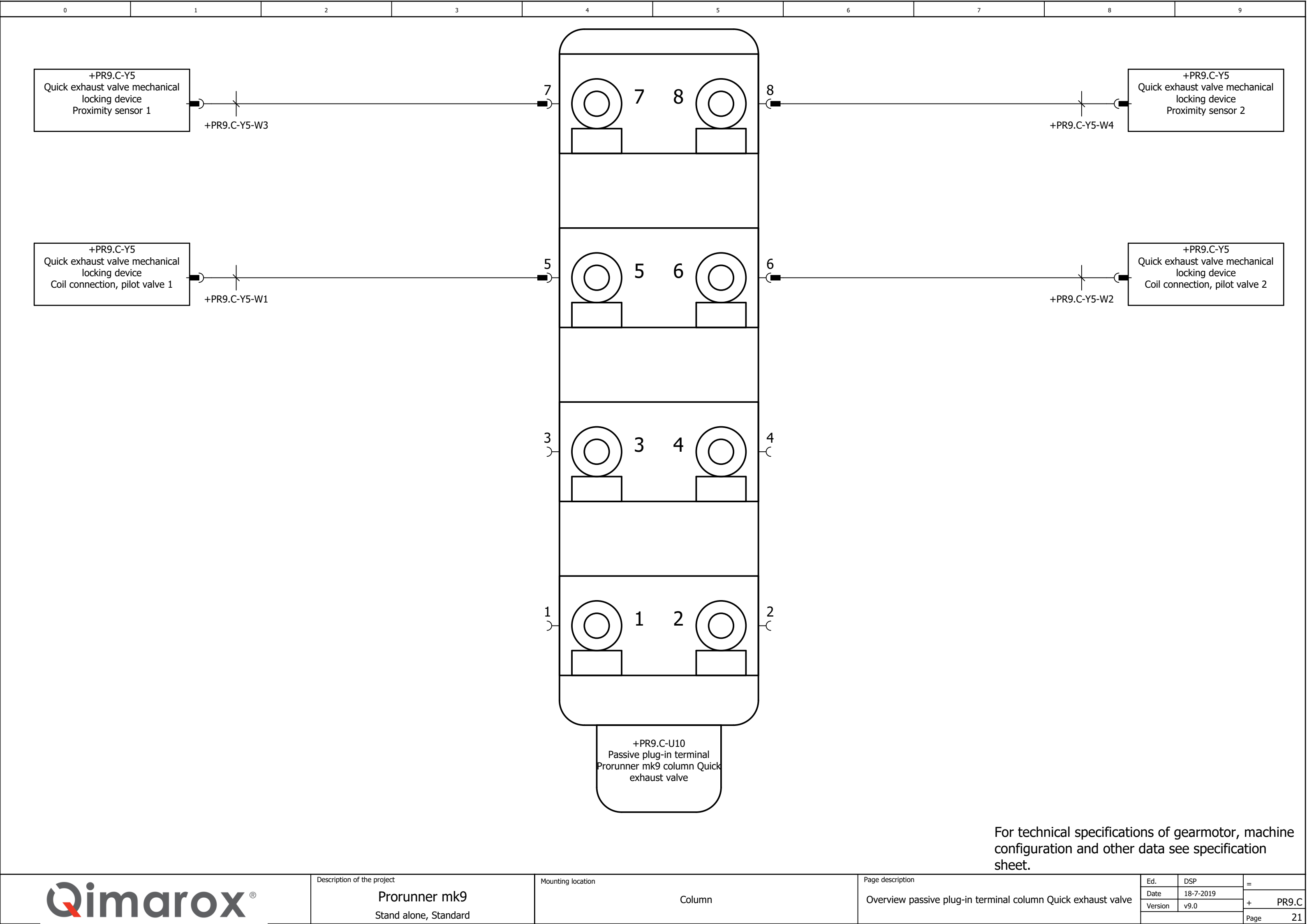
Ed.	DSP	=
Date	18-7-2019	
Version	v9.0	+ PR9.C
		Page 1

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20	Overview passive plug-in terminal column
21	Overview passive plug-in terminal column Quick exhaust valve
150	Gearmotor, 3 fase
500	Field components
501	Field components
502	Field components
503	Field components
2000	Parts list



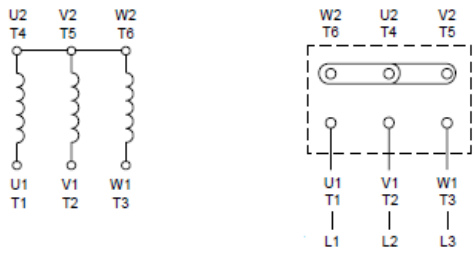
For technical specifications of gearmotor, machine configuration and other data see specification sheet.



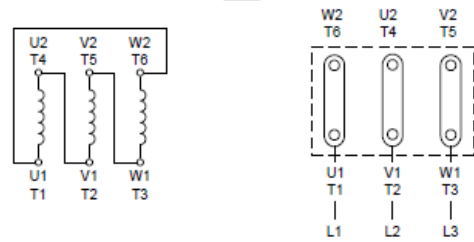
EXTERN

Alternative

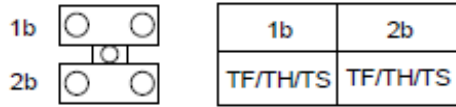
Connection gearmotor star



Connection gearmotor delta

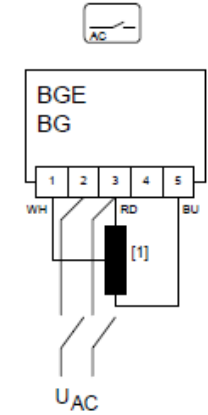


Connection thermistor

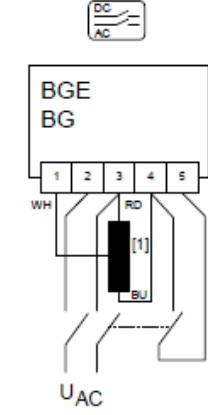


Connection brake
230VAC + 400VAC

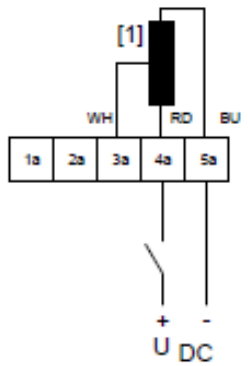
Normal break reaction



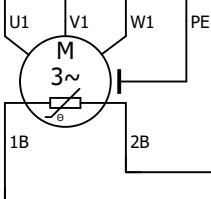
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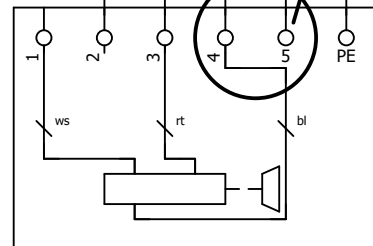
Connection brake
24VDC



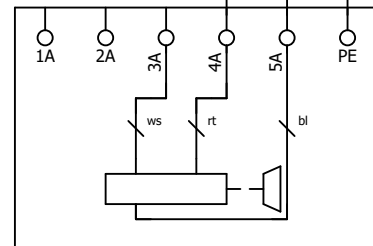
+PR9.C-M1



Gearmotor +
thermistor



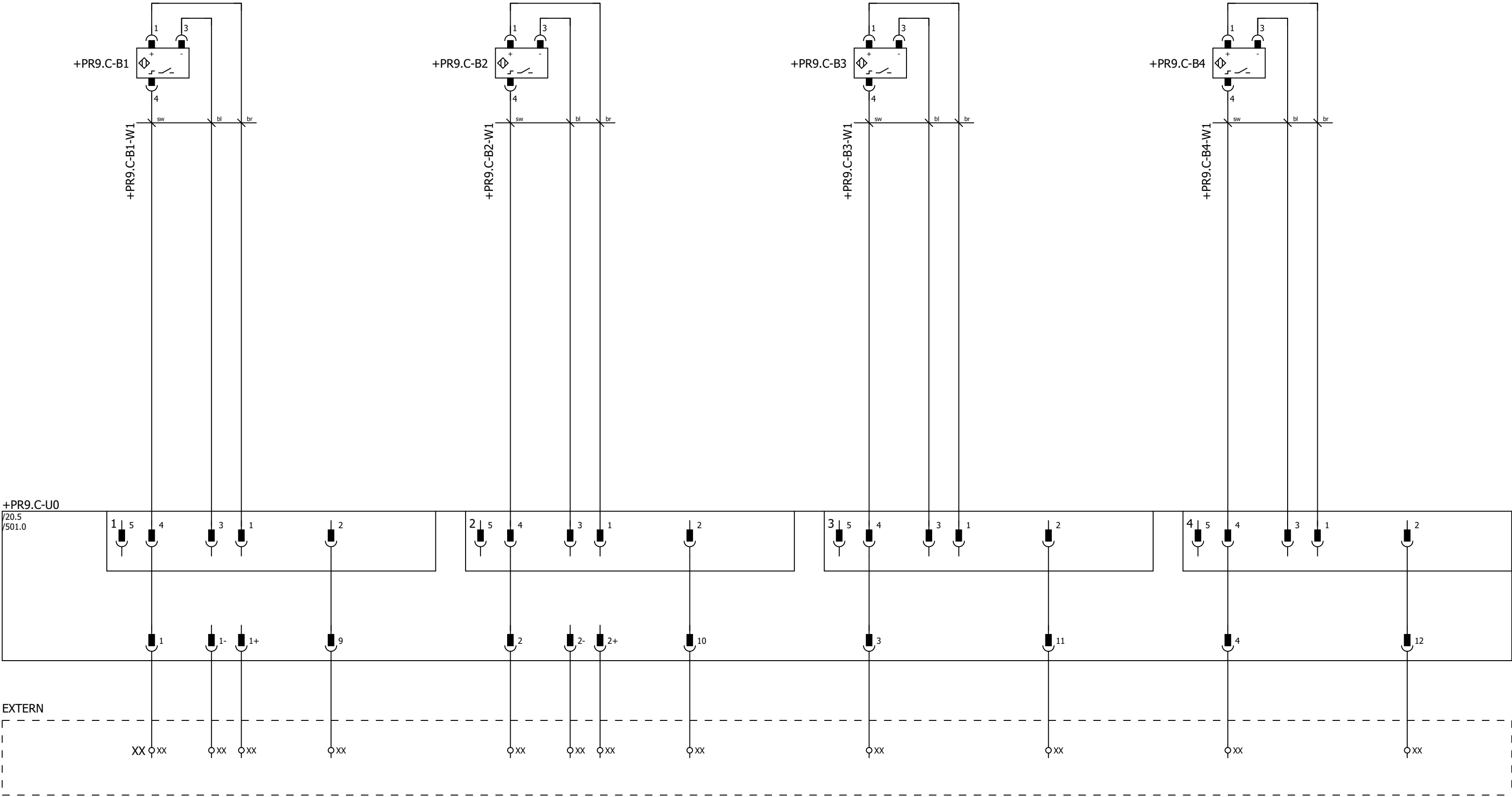
Brake
230VAC + 400VAC



Brake
24VDC

Gearmotor Prorunner
mk9

For technical specifications of gearmotor, applied
options, machine configuration and other data see
specification sheet.



Passive plug-in terminal
Prorunner mk9 column

Bottom stop position

Spare

Bottom low speed position

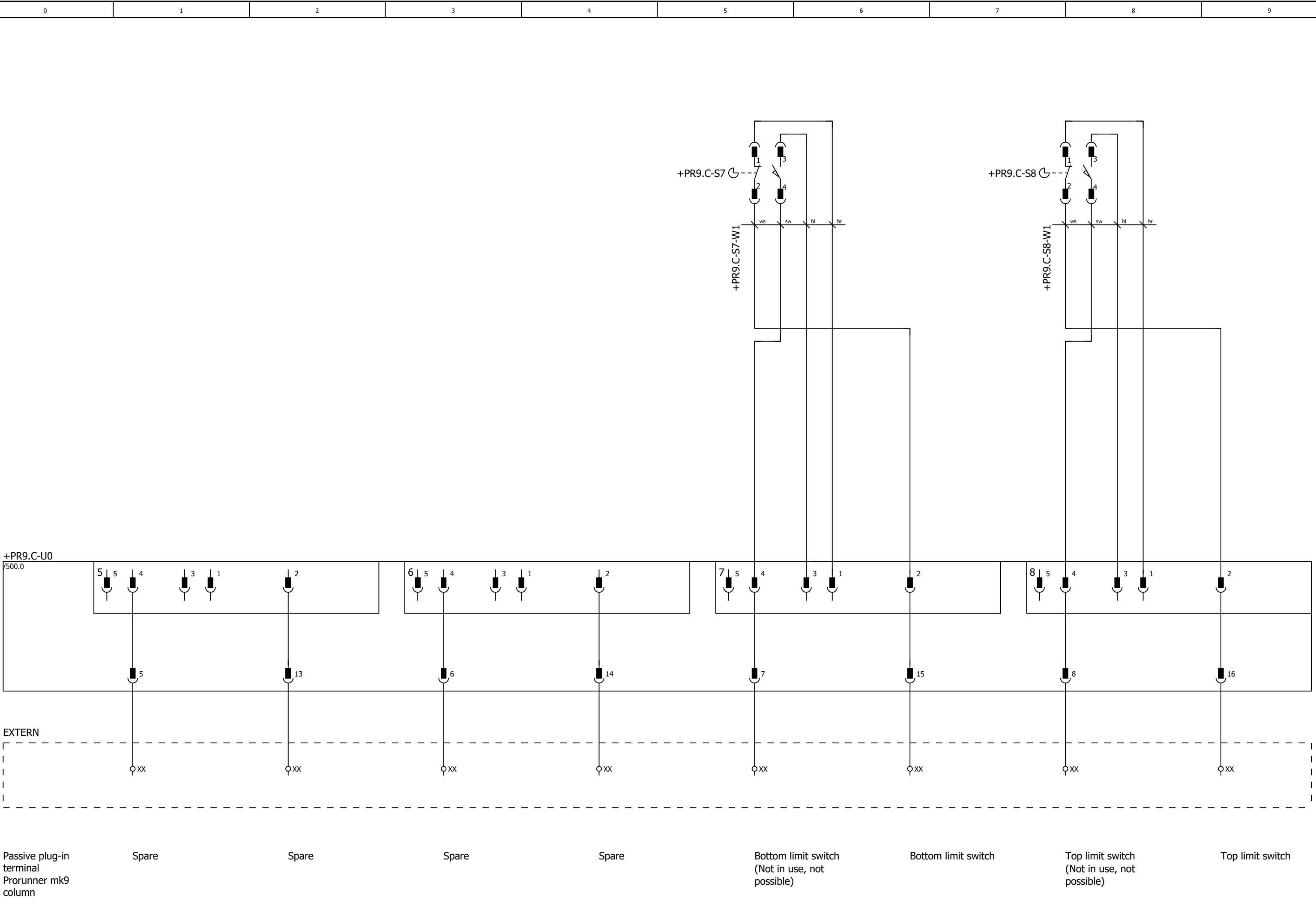
Spare

Top stop position

Spare

Top low speed position

Spare



Passive plug-in terminal Prorunner mk9 column	Spare	Spare	Spare	Spare	Bottom limit switch (Not in use, not possible)	Bottom limit switch	Top limit switch (Not in use, not possible)	Top limit switch
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Passive plug-in
terminal
Prorunner mk9
column Quick
exhaust valve

Spare

Spare

Spare

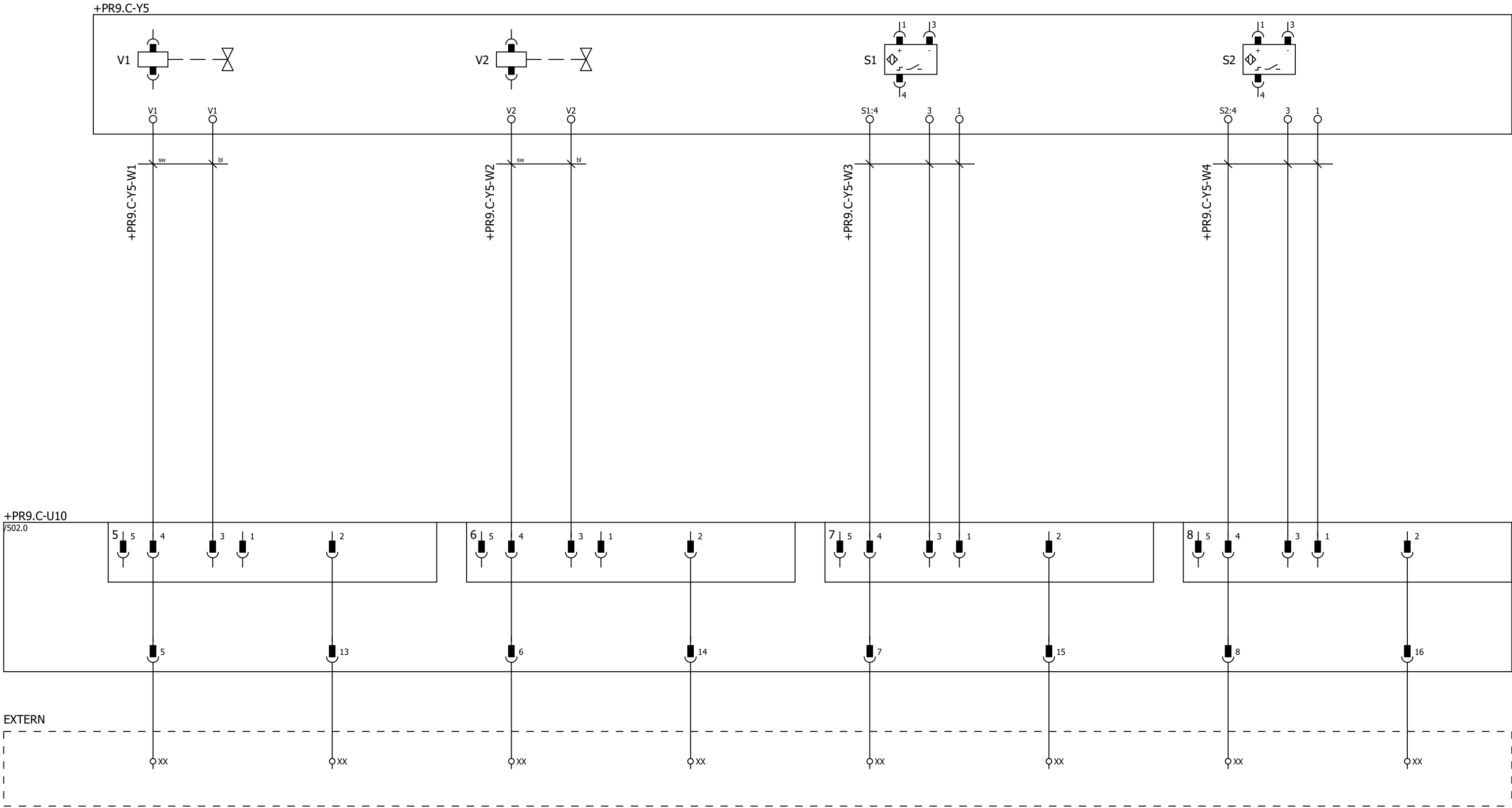
Spare

Spare

Spare

Spare

Spare



Passive plug-in terminal Prorunner mk9 column Quick exhaust valve	Quick exhaust valve mechanical locking device Coil connection, pilot valve 1	Spare	Quick exhaust valve mechanical locking device Coil connection, pilot valve 2	Spare	Quick exhaust valve mechanical locking device Proximity sensor 1	Spare	Quick exhaust valve mechanical locking device Proximity sensor 2	Spare
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Parts list

Position	Quantity	Article number	Description	Manufacturer	Type number
-B1	1	1000932	Inductive proximity sensor	Sick	IME18-08BPSZC0K
-B1-W1	1	1001601	Prefab cable, PVC, 1 meter, connector M12 male 90°+ M12 female 90°, 4-pole	Murrelektronik	PVC-OB 4x0,34mm2
-B1-W1	1	1001326	Prefab cable, PVC, 5 meter, connector M12 male 90°+ M12 female 90°, 4-pole	Murrelektronik	PVC-OB 4x0,34mm2
-B2	1	1000932	Inductive proximity sensor	Sick	IME18-08BPSZC0K
-B2-W1	1	1001601	Prefab cable, PVC, 1 meter, connector M12 male 90°+ M12 female 90°, 4-pole	Murrelektronik	PVC-OB 4x0,34mm2
-B2-W1	1	1001326	Prefab cable, PVC, 5 meter, connector M12 male 90°+ M12 female 90°, 4-pole	Murrelektronik	PVC-OB 4x0,34mm2
-B3	1	1000932	Inductive proximity sensor	Sick	IME18-08BPSZC0K
-B3-W1	1	1001326	Prefab cable, PVC, 5 meter, connector M12 male 90°+ M12 female 90°, 4-pole	Murrelektronik	PVC-OB 4x0,34mm2
-B3-W1	1	1001600	Prefab cable, PVC, 10 meter, connector M12 male 90°+ M12 female 90°, 4-pole	Murrelektronik	PVC-OB 4x0,34mm2
-B3-W1	1	1006487	Prefab cable, PVC, 15 meter, connector M12 male 90°+ M12 female 90°, 4-pole	Murrelektronik	PVC-OB 4x0,34mm2
-B4	1	1000932	Inductive proximity sensor	Sick	IME18-08BPSZC0K
-B4-W1	1	1001326	Prefab cable, PVC, 5 meter, connector M12 male 90°+ M12 female 90°, 4-pole	Murrelektronik	PVC-OB 4x0,34mm2
-B4-W1	1	1001600	Prefab cable, PVC, 10 meter, connector M12 male 90°+ M12 female 90°, 4-pole	Murrelektronik	PVC-OB 4x0,34mm2
-B4-W1	1	1006487	Prefab cable, PVC, 15 meter, connector M12 male 90°+ M12 female 90°, 4-pole	Murrelektronik	PVC-OB 4x0,34mm2
-M1	1		See specification sheet		
-S7	1	AE0005524	Limit switch basic contact element, M12 connector	Schneider Electric	ZCMD21C12
-S7	1	AE0005537	Limit switch lever	Schneider Electric	ZCY54
-S7	1	AE0005534	Limit switch control head	Schneider Electric	ZCE05
-S7-W1	1	1001601	Prefab cable, PVC, 1 meter, connector M12 male 90°+ M12 female 90°, 4-pole	Murrelektronik	PVC-OB 4x0,34mm2
-S8	1	AE0005524	Limit switch basic contact element, M12 connector	Schneider Electric	ZCMD21C12
-S8	1	AE0005537	Limit switch lever	Schneider Electric	ZCY54
-S8	1	AE0005534	Limit switch control head	Schneider Electric	ZCE05
-S8-W1	1	1001326	Prefab cable, PVC, 5 meter, connector M12 male 90°+ M12 female 90°, 4-pole	Murrelektronik	PVC-OB 4x0,34mm2
-S8-W1	1	1001600	Prefab cable, PVC, 10 meter, connector M12 male 90°+ M12 female 90°, 4-pole	Murrelektronik	PVC-OB 4x0,34mm2
-S8-W1	1	1006487	Prefab cable, PVC, 15 meter, connector M12 male 90°+ M12 female 90°, 4-pole	Murrelektronik	PVC-OB 4x0,34mm2
-U0	1	1003309	Passive plug-in terminal, 8-fold, 5-pole, M12	Murrelektronik	Exact12 8xM12 5-p
-U10	1	1003309	Passive plug-in terminal, 8-fold, 5-pole, M12	Murrelektronik	Exact12 8xM12 5-p
-Y5	1	AE0066989	Soft-start / quick exhaust valve	Festo	MS6-SV-1/2-D-10V24P-2M12-AG-WPB
-Y5-W1	1	AE0068488	Prefab cable, PVC, 0,6 meter, connector M12 male 90°+ M12 female 90°, 4-pole	Murrelektronik	PVC-OB 4x0,34mm2
-Y5-W2	1	AE0068488	Prefab cable, PVC, 0,6 meter, connector M12 male 90°+ M12 female 90°, 4-pole	Murrelektronik	PVC-OB 4x0,34mm2



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Document name: Electrical drawings PRmk9 v9.0 Stand alone
Mounting location: Carrier
Type: Stand alone, Standard

Power supply: See specification sheet
Control voltage: 24VDC
According to: NEN-EN-IEC 60204-1: 2018

Version number: v9.0



Description of the project
Prorunner mk9
Stand alone, Standard

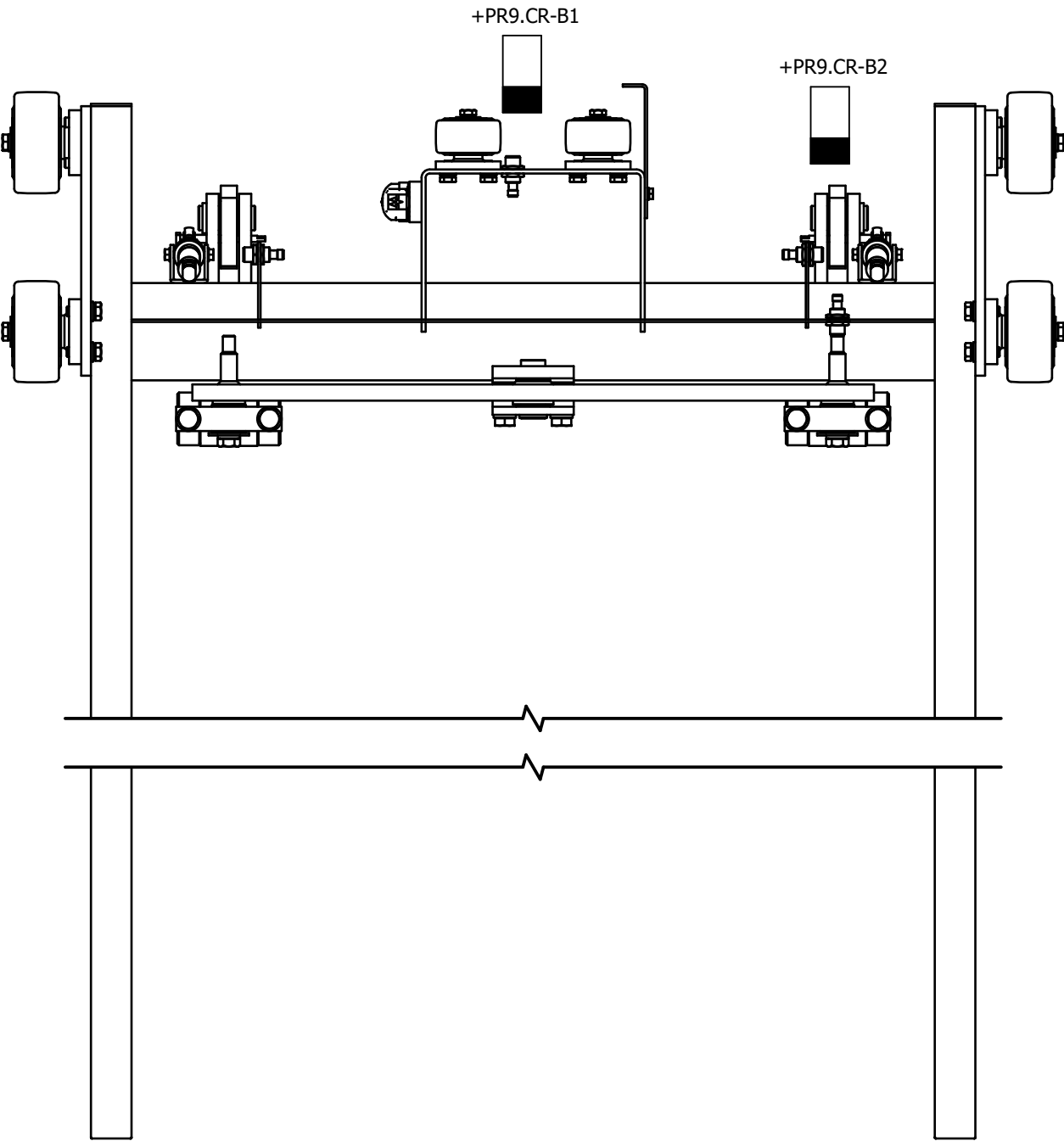
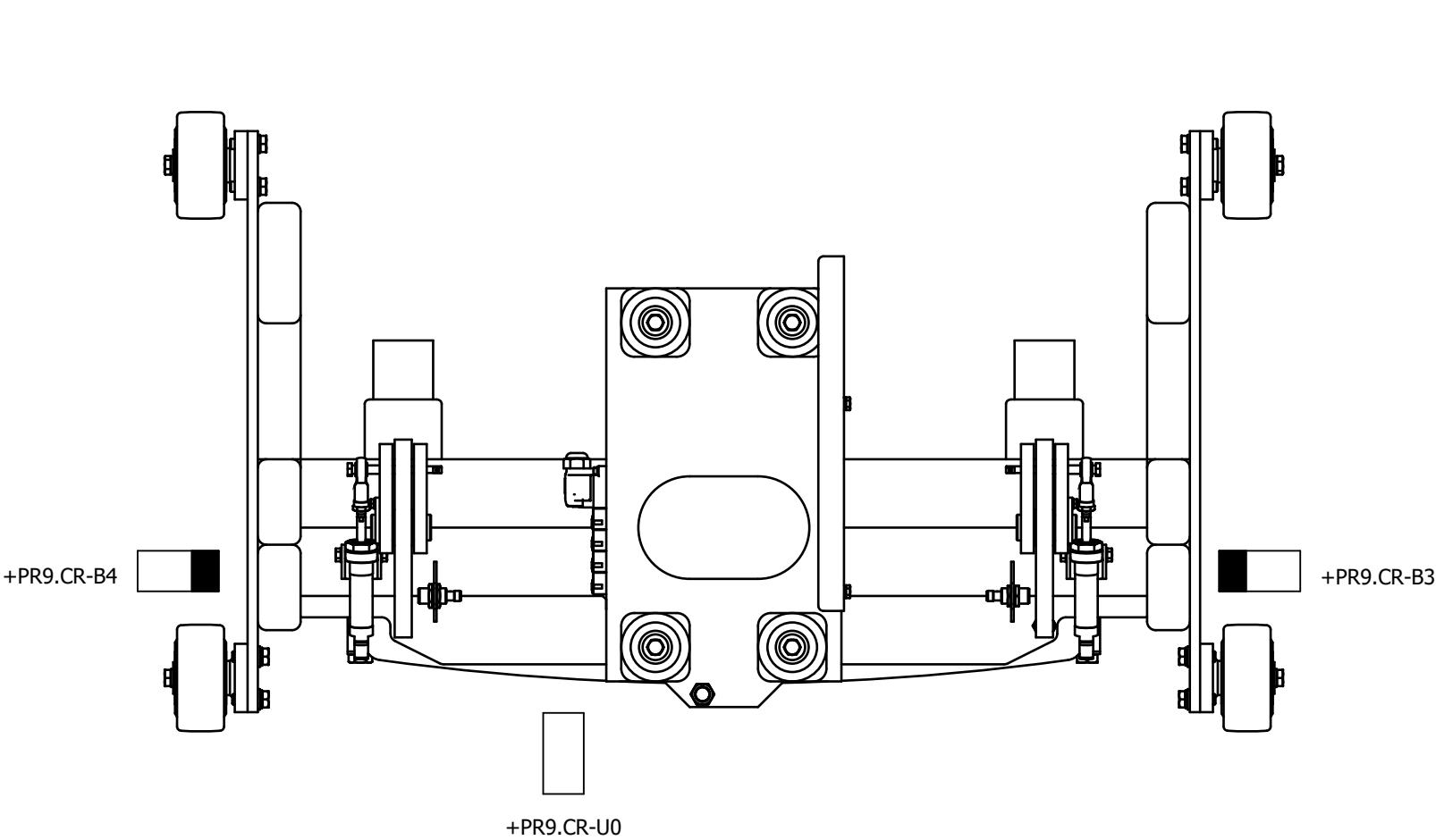
Mounting location
Carrier

Page description
Title page

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Date	18-7-2019	+ PR9.CR
Version	v9.0	
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20	Overview passive plug-in terminal carrier
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501	Field components
2000	Parts list

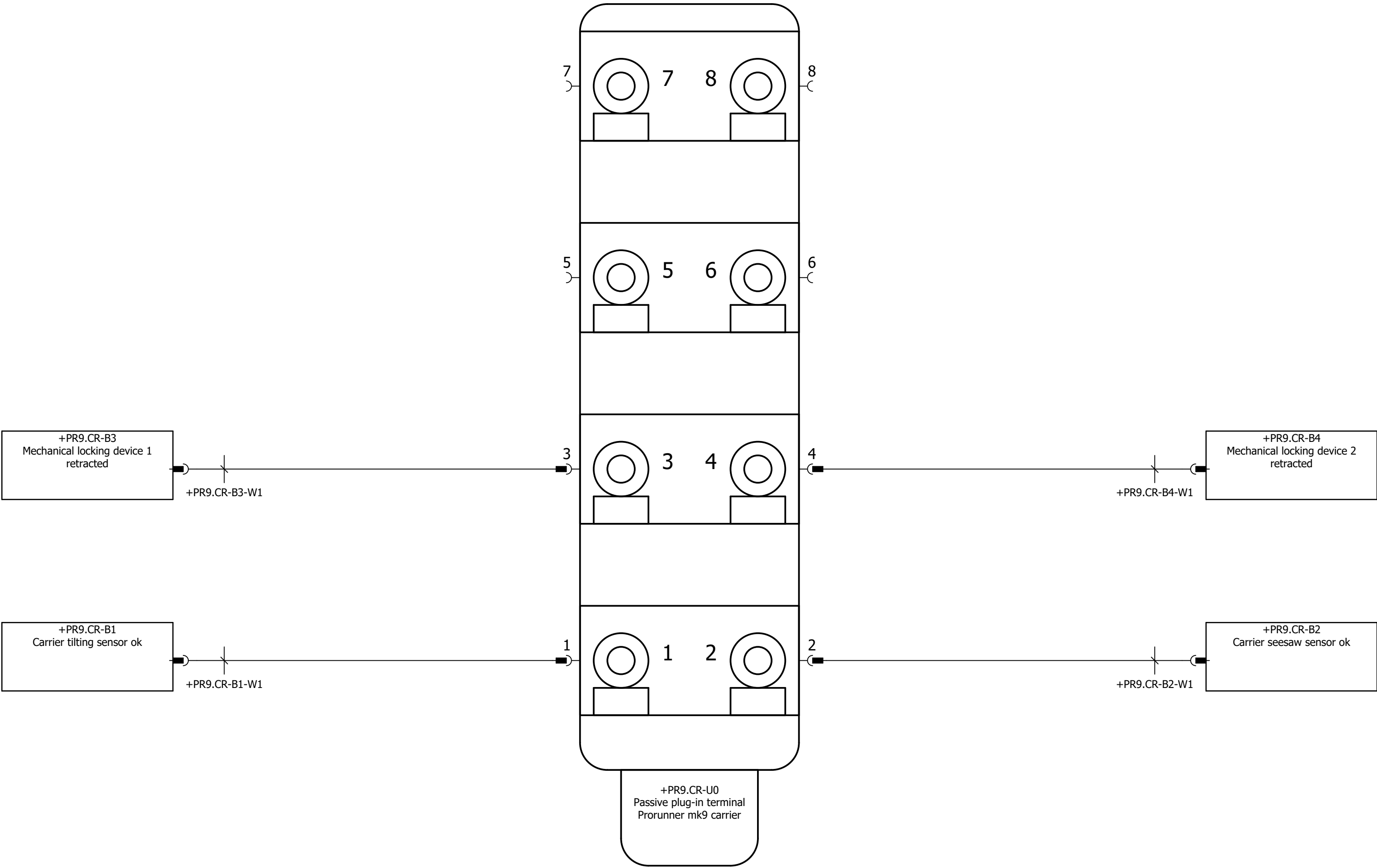


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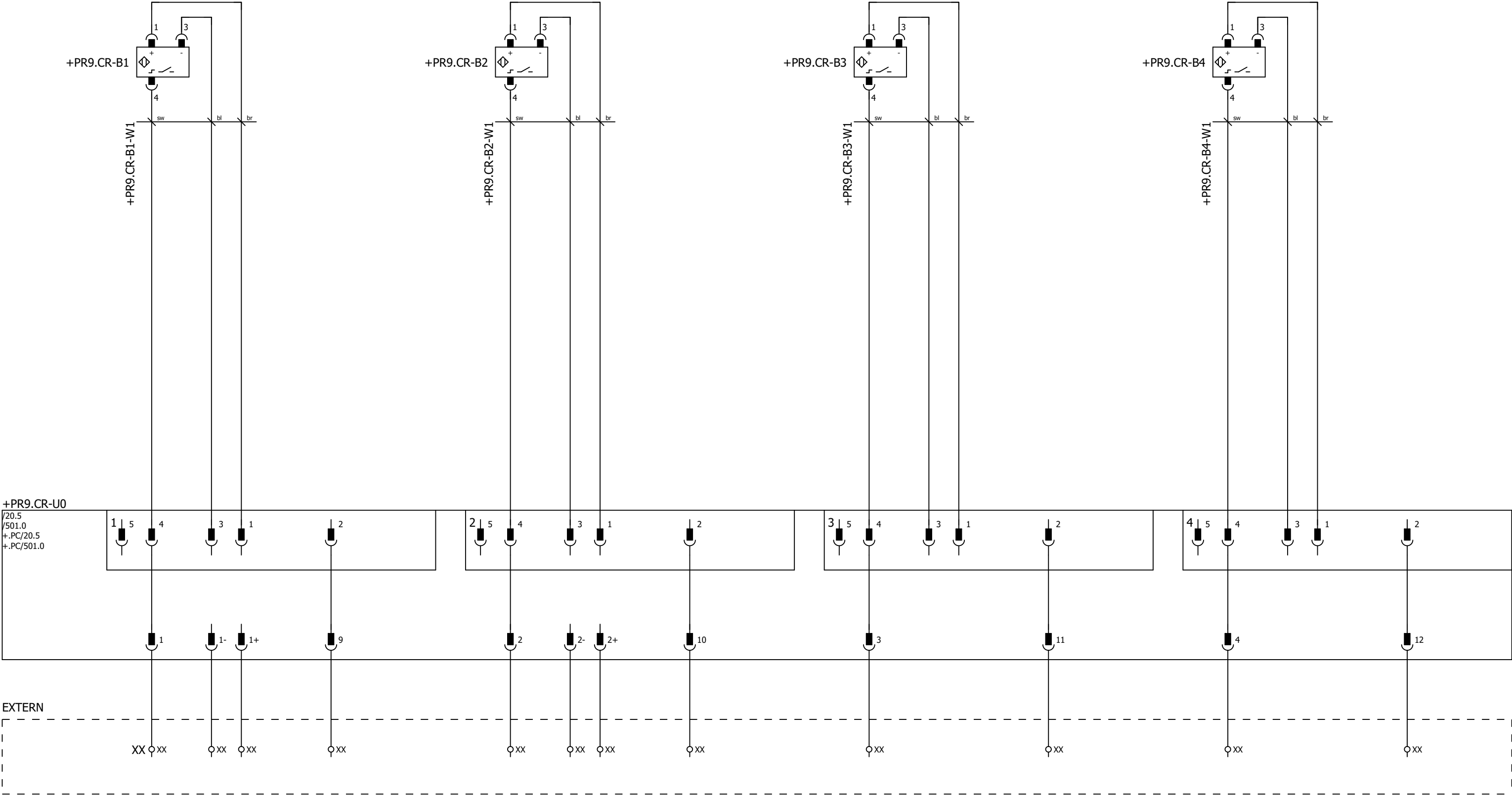
- +PR9.CR-B1 Carrier tilting sensor ok
- +PR9.CR-B2 Carrier seesaw sensor ok
- +PR9.CR-B3 Mechanical locking device 1 retracted
- +PR9.CR-B4 Mechanical locking device 2 retracted
- +PR9.CR-U0 Passive plug-in terminal Prorunner mk9 carrier

For technical specifications of gearmotor, applied options, machine configuration and other data see specification sheet.

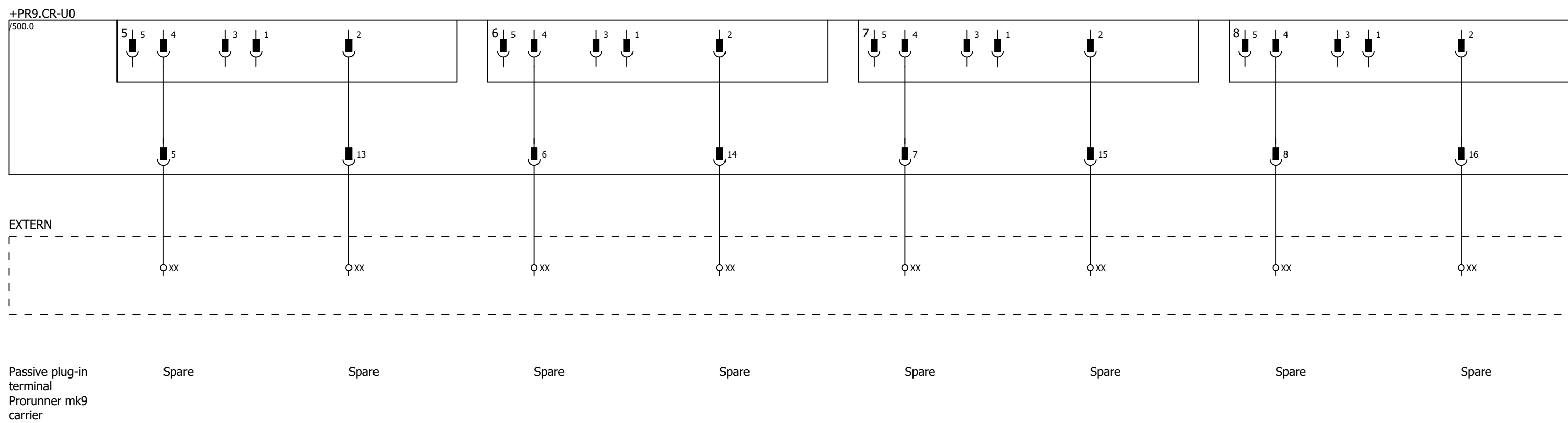
Image may differ from reality.



For technical specifications of gearmotor, machine configuration and other data see specification sheet.



Passive plug-in terminal Prorunner mk9 carrier	Carrier tilting sensor ok	Spare	Carrier seesaw sensor ok	Spare	Mechanical locking device 1 retracted	Spare	Mechanical locking device 2 retracted	Spare
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0

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Parts list

Position	Quantity	Article number	Description	Manufacturer	Type number
-B1	1	1000932	Inductive proximity sensor	Sick	IME18-08BPSZC0K
-B1-W1	1	1001601	Prefab cable, PVC, 1 meter, connector M12 male 90°+ M12 female 90°, 4-pole	Murrelektronic	PVC-OB 4x0,34mm2
-B2	1	1000932	Inductive proximity sensor	Sick	IME18-08BPSZC0K
-B2-W1	1	1001601	Prefab cable, PVC, 1 meter, connector M12 male 90°+ M12 female 90°, 4-pole	Murrelektronic	PVC-OB 4x0,34mm2
-B3	1	1000932	Inductive proximity sensor	Sick	IME18-08BPSZC0K
-B3-W1	1	1001601	Prefab cable, PVC, 1 meter, connector M12 male 90°+ M12 female 90°, 4-pole	Murrelektronic	PVC-OB 4x0,34mm2
-B4	1	1000932	Inductive proximity sensor	Sick	IME18-08BPSZC0K
-B4-W1	1	1001601	Prefab cable, PVC, 1 meter, connector M12 male 90°+ M12 female 90°, 4-pole	Murrelektronic	PVC-OB 4x0,34mm2
-U0	1	1003309	Passive plug-in terminal, 8-fold, 5-pole, M12	Murrelektronic	Exact12 8xM12 5-p

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Document name: Electrical drawings PRmk9 v9.0 Stand alone
Mounting location: Pallet conveyor on carrier
Type: Stand alone, Standard

This section is optional.

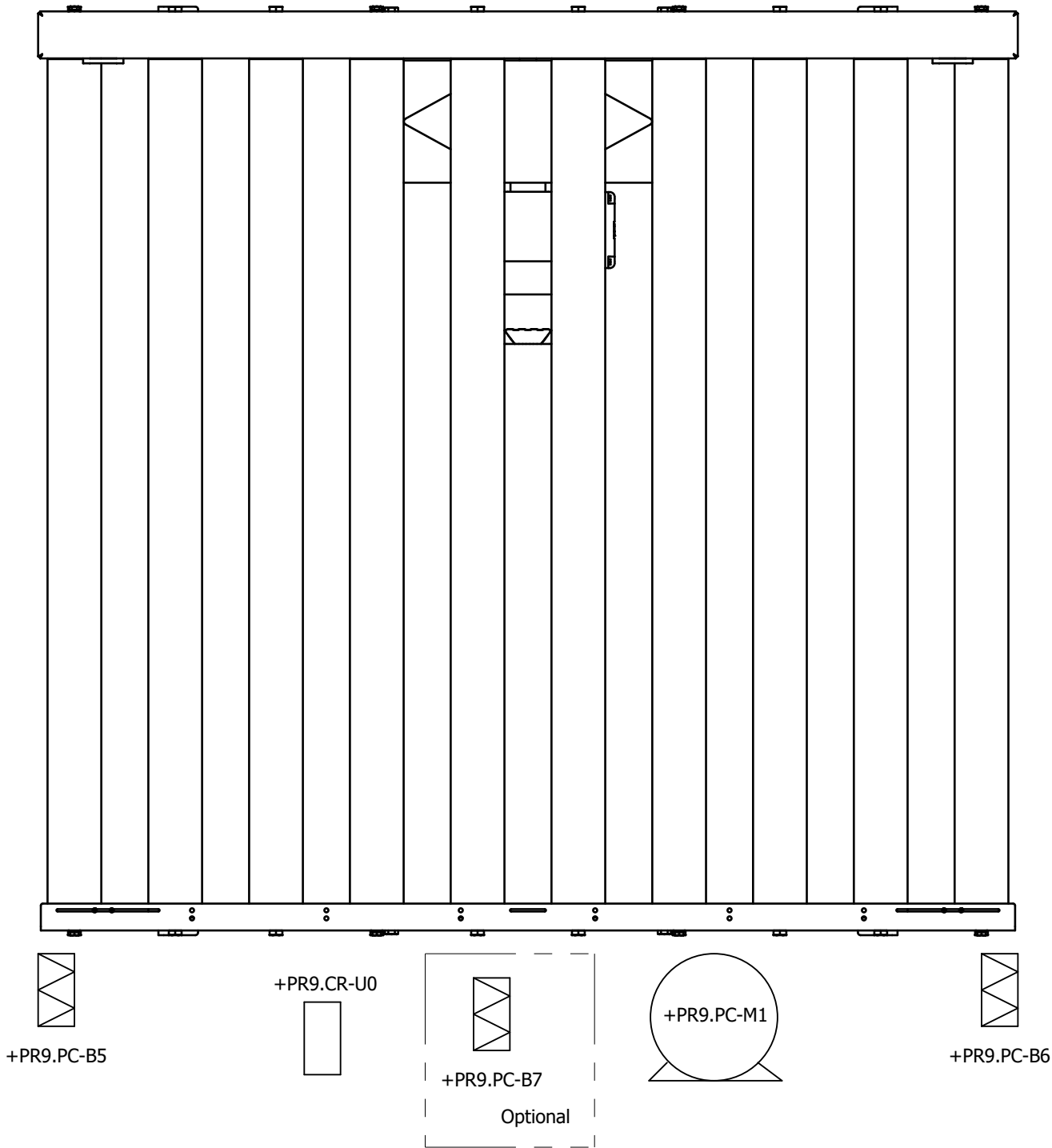
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Control voltage: 24VDC
According to: NEN-EN-IEC 60204-1: 2018

Version number: v9.0

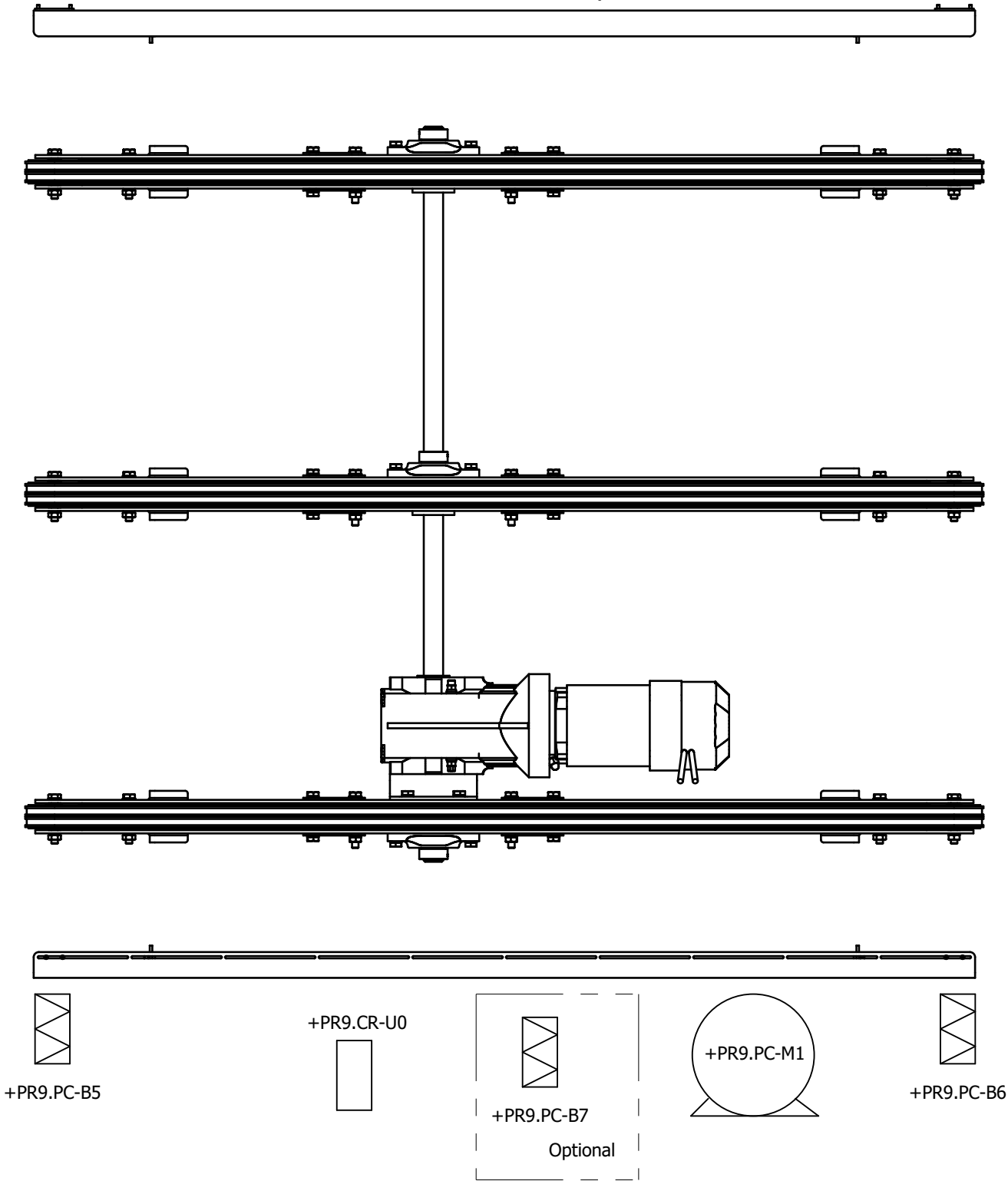
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20	Overview passive plug-in terminal carrier
150	Gearmotor, 3 fase
501	Field components
2000	Parts list

Roller conveyor



Chain conveyor



Legend:

- +PR9.PC-M1

Gearmotor conveyor on carrier
- +PR9.PC-B5

Detection carrier not free 1
- +PR9.PC-B6

Detection carrier not free 2
- +PR9.PC-B7

Product on conveyor

Optional
- +PR9.CR-U0

Passive plug-in terminal Prorunner mk9 carrier

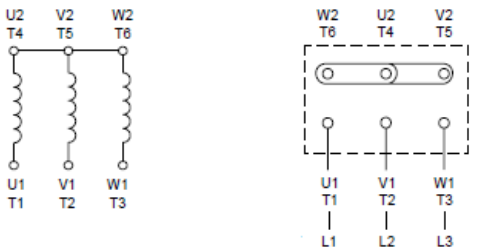
For technical specifications of gearmotor, applied options, machine configuration and other data see specification sheet.

Image may differ from reality.

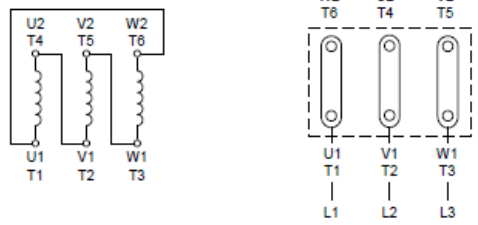
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Alternative

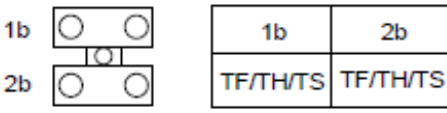
Connection gearmotor star



Connection gearmotor delta

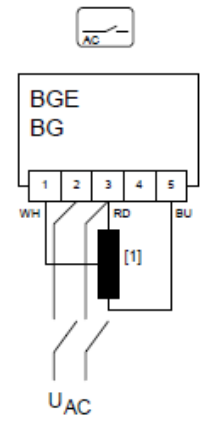


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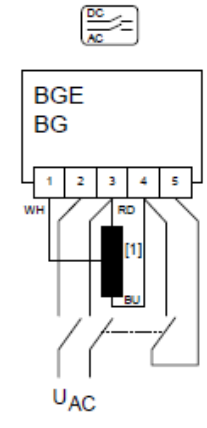


Connection brake
230VAC + 400VAC

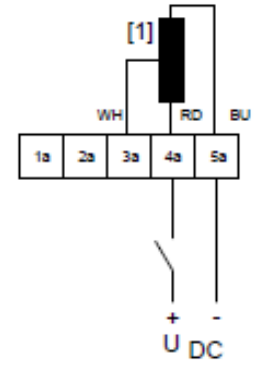
Normal break reaction



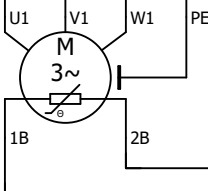
Rapid break reaction



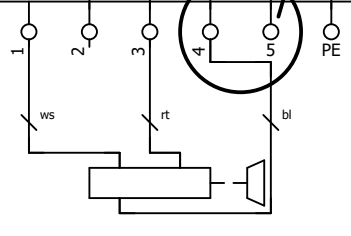
Connection brake
24VDC



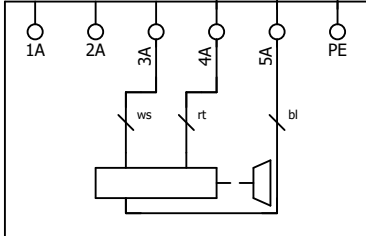
+PR9.PC-M1



Gearmotor +
thermistor



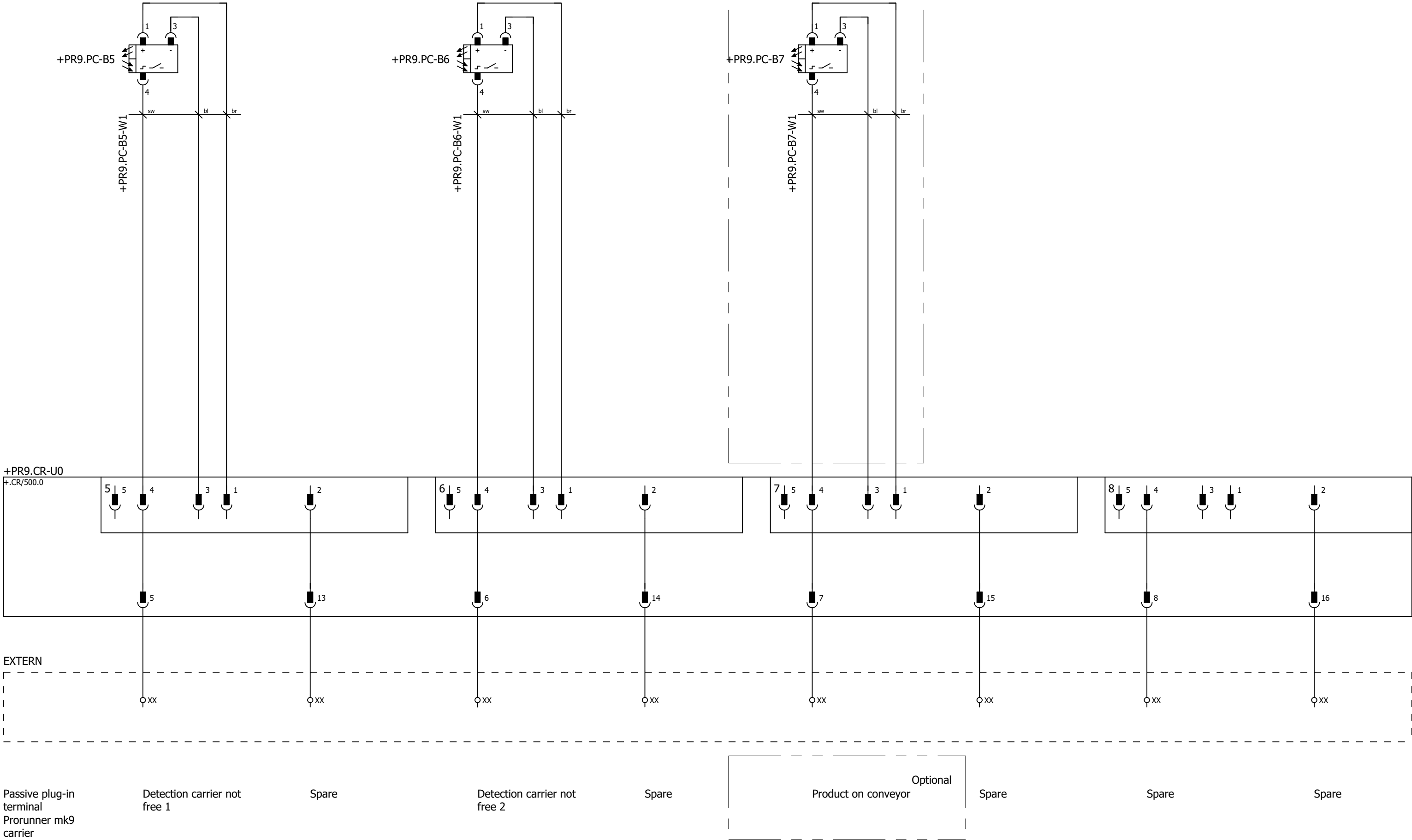
Brake
230VAC + 400VAC



Brake
24VDC

Gearmotor conveyor
on carrier

For technical specifications of gearmotor, applied options, machine configuration and other data see specification sheet.



Parts list

Position	Quantity	Article number	Description	Manufacturer	Type number
-B5	1	1005663	Reflex sensor	Sick	GL6-P4211
-B5	1	1003575	Reflector	Sick	PL20A
-B5	1	AE0047194	Proximity / reflex sensor	Sick	RT-P3221
-B5-W1	1	1007649	Prefab cable, PVC, 2 meter, connector M12 male + female M8, 4-pole	Murrelektronic	PVC-OB 4x0,25mm2
-B5-W1	1	1001528	Prefab cable, PVC, 2 meter, connector M12 male 90°+ M12 female 90°, 4-pole	Murrelektronic	PVC-OB 4x0,34mm2
-B6	1	1005663	Reflex sensor	Sick	GL6-P4211
-B6	1	1003575	Reflector	Sick	PL20A
-B6	1	AE0047194	Proximity / reflex sensor	Sick	RT-P3221
-B6-W1	1	1007649	Prefab cable, PVC, 2 meter, connector M12 male + female M8, 4-pole	Murrelektronic	PVC-OB 4x0,25mm2
-B6-W1	1	1001528	Prefab cable, PVC, 2 meter, connector M12 male 90°+ M12 female 90°, 4-pole	Murrelektronic	PVC-OB 4x0,34mm2
-B7	1	1005663	Reflex sensor	Sick	GL6-P4211
-B7	1	1003575	Reflector	Sick	PL20A
-B7	1	AE0047194	Proximity / reflex sensor	Sick	RT-P3221
-B7-W1	1	1007649	Prefab cable, PVC, 2 meter, connector M12 male + female M8, 4-pole	Murrelektronic	PVC-OB 4x0,25mm2
-B7-W1	1	1001528	Prefab cable, PVC, 2 meter, connector M12 male 90°+ M12 female 90°, 4-pole	Murrelektronic	PVC-OB 4x0,34mm2
-M1	1		See specification sheet		



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Document name: Electrical drawings PRmk9 v9.0 Stand alone
Mounting location: Extra stop positions 1 - 4
Type: Stand alone, Standard

This section only applies if there are more than two stop positions

Power supply: See specification sheet
Control voltage: 24VDC
According to: NEN-EN-IEC 60204-1: 2018

Version number: v9.0



Description of the project
Prorunner mk9
Stand alone, Standard

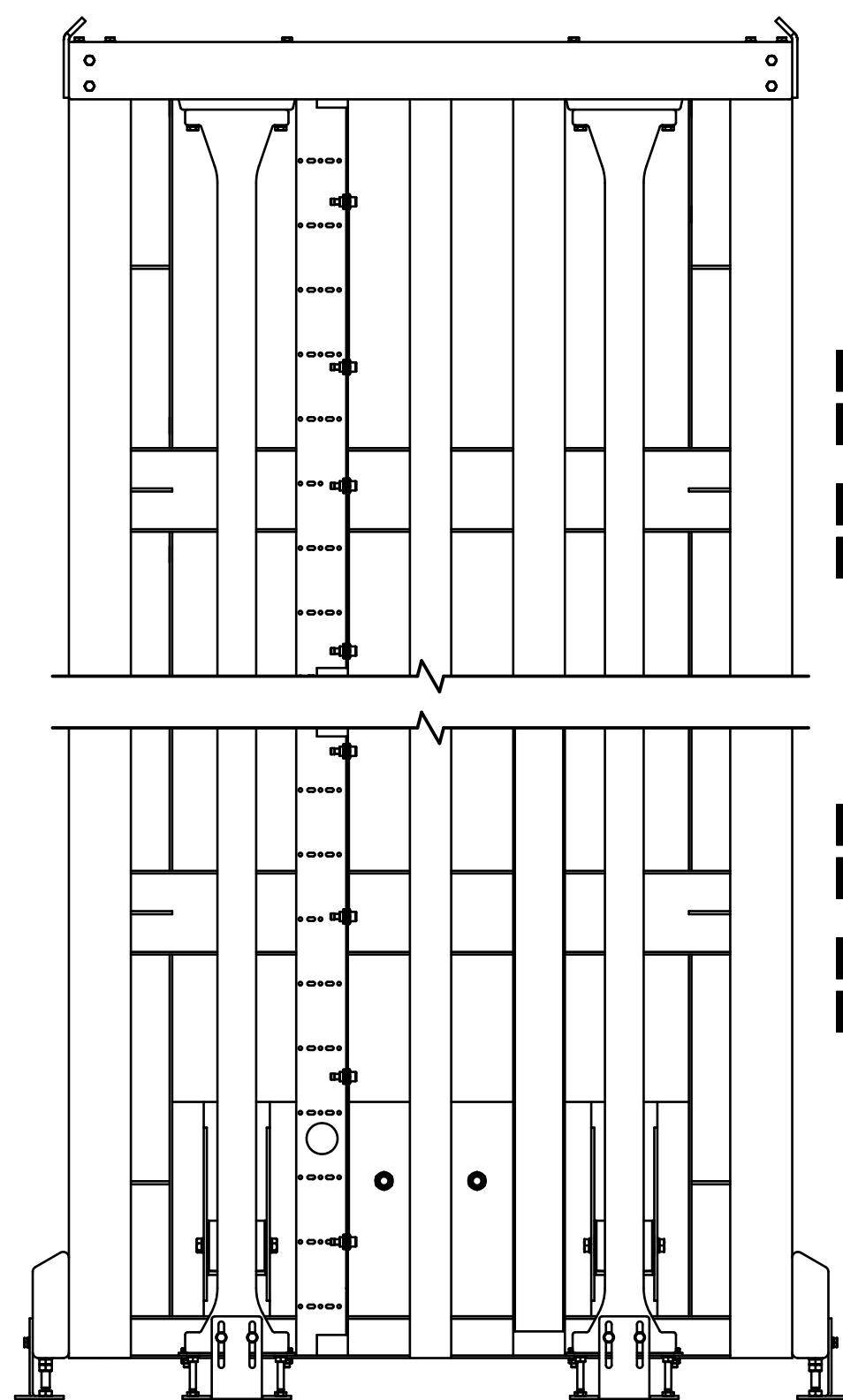
Mounting location
Extra stop positions 1 - 4

Page description
Title page

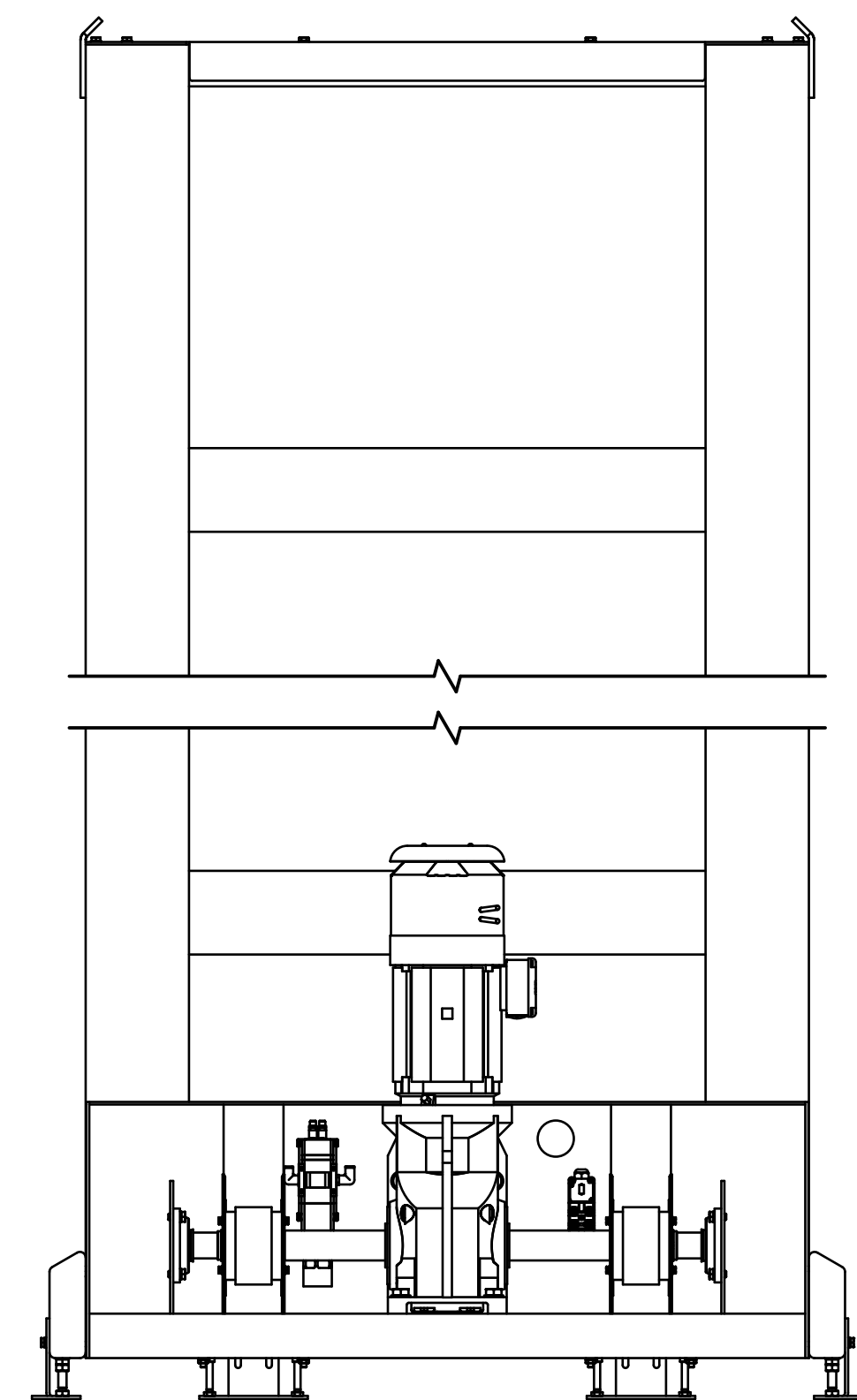
Ed.	DSP	=
Date	18-7-2019	+ PR9.ES1
Version	v9.0	Page 1

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20	Overview passive plug-in terminal extra stop positions 1-4
500	Field components
501	Field components
2000	Parts list



- +PR9.ES1-B8
- +PR9.ES1-B7
- +PR9.ES1-B6
- +PR9.ES1-B5
- +PR9.ES1-B4
- +PR9.ES1-B3
- +PR9.ES1-B2
- +PR9.ES1-B1



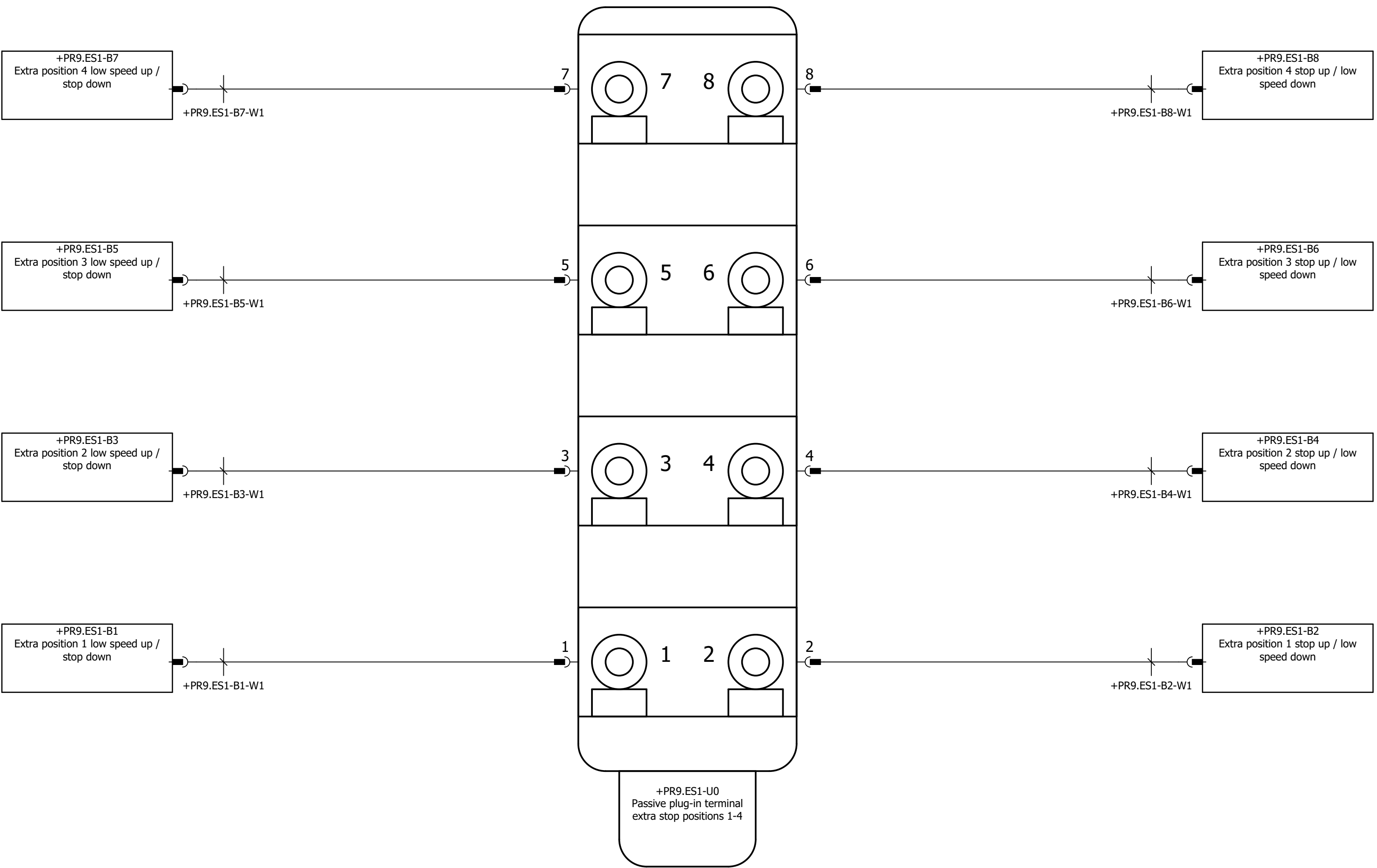
+PR9.ES1-U0

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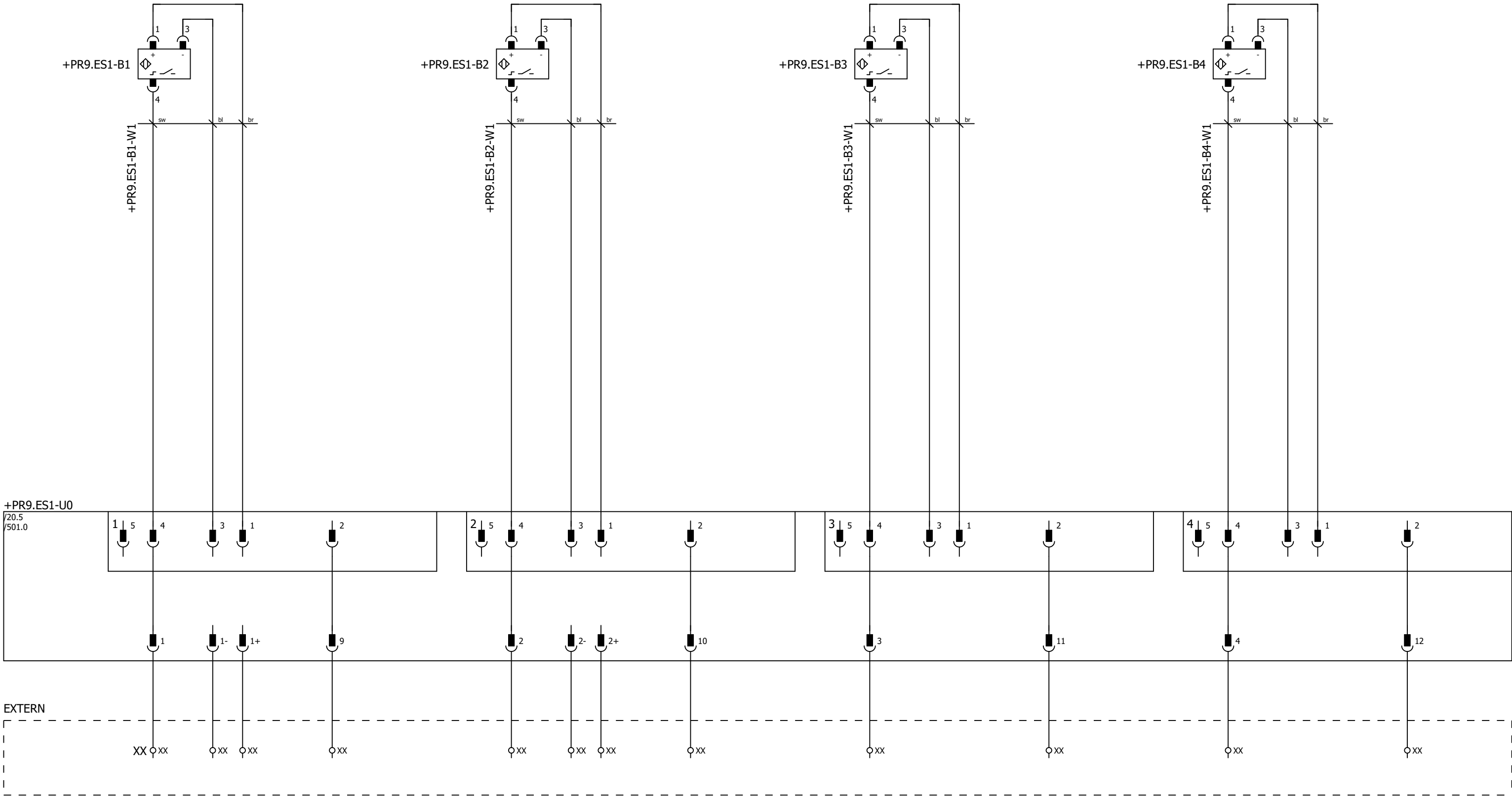
- +PR9.ES1-B1 Extra position 1 low speed up / stop down
- +PR9.ES1-B2 Extra position 1 stop up / low speed down
- +PR9.ES1-B3 Extra position 2 low speed up / stop down
- +PR9.ES1-B4 Extra position 2 stop up / low speed down
- +PR9.ES1-B5 Extra position 3 low speed up / stop down
- +PR9.ES1-B6 Extra position 3 stop up / low speed down
- +PR9.ES1-B7 Extra position 4 low speed up / stop down
- +PR9.ES1-B8 Extra position 4 stop up / low speed down
- +PR9.ES1-U0 Passive plug-in terminal extra stop positions 1-4

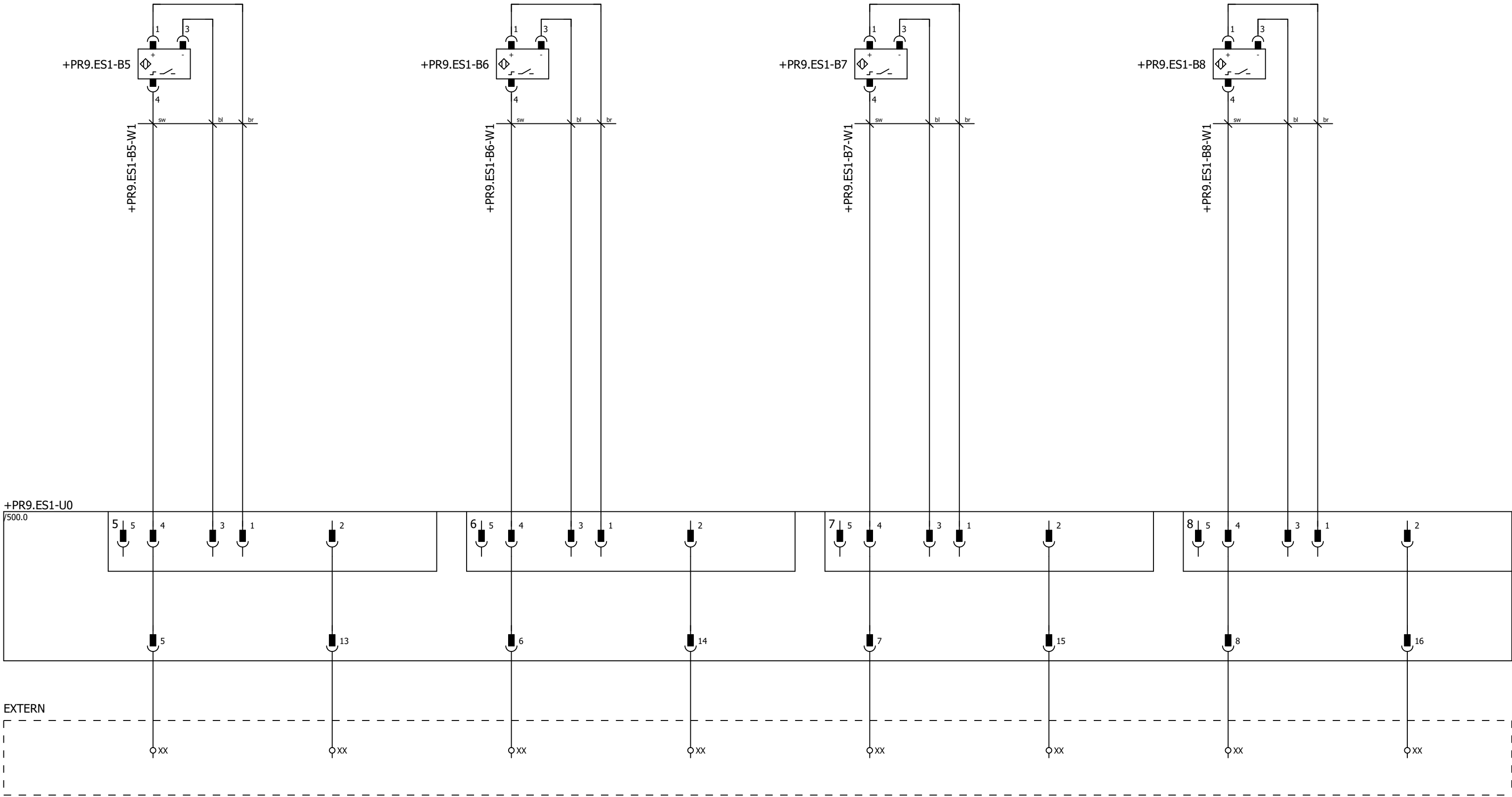
For technical specifications of gearmotor, applied options, machine configuration and other data see specification sheet.

Image may differ from reality.



For technical specifications of gearmotor, machine configuration and other data see specification sheet.





Passive plug-in terminal extra stop positions 1-4	Extra position 3 low speed up / stop down	Spare	Extra position 3 stop up / low speed down	Spare	Extra position 4 low speed up / stop down	Spare	Extra position 4 stop up / low speed down	Spare
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Parts list

Position	Quantity	Article number	Description	Manufacturer	Type number
-B1	1	1000932	Inductive proximity sensor	Sick	IME18-08BPSZC0K
-B1-W1	1	1001326	Prefab cable, PVC, 5 meter, connector M12 male 90°+ M12 female 90°, 4-pole	Murrelektronik	PVC-OB 4x0,34mm2
-B1-W1	1	1001600	Prefab cable, PVC, 10 meter, connector M12 male 90°+ M12 female 90°, 4-pole	Murrelektronik	PVC-OB 4x0,34mm2
-B1-W1	1	1006487	Prefab cable, PVC, 15 meter, connector M12 male 90°+ M12 female 90°, 4-pole	Murrelektronik	PVC-OB 4x0,34mm2
-B2	1	1000932	Inductive proximity sensor	Sick	IME18-08BPSZC0K
-B2-W1	1	1001326	Prefab cable, PVC, 5 meter, connector M12 male 90°+ M12 female 90°, 4-pole	Murrelektronik	PVC-OB 4x0,34mm2
-B2-W1	1	1001600	Prefab cable, PVC, 10 meter, connector M12 male 90°+ M12 female 90°, 4-pole	Murrelektronik	PVC-OB 4x0,34mm2
-B2-W1	1	1006487	Prefab cable, PVC, 15 meter, connector M12 male 90°+ M12 female 90°, 4-pole	Murrelektronik	PVC-OB 4x0,34mm2
-B3	1	1000932	Inductive proximity sensor	Sick	IME18-08BPSZC0K
-B3-W1	1	1001326	Prefab cable, PVC, 5 meter, connector M12 male 90°+ M12 female 90°, 4-pole	Murrelektronik	PVC-OB 4x0,34mm2
-B3-W1	1	1001600	Prefab cable, PVC, 10 meter, connector M12 male 90°+ M12 female 90°, 4-pole	Murrelektronik	PVC-OB 4x0,34mm2
-B3-W1	1	1006487	Prefab cable, PVC, 15 meter, connector M12 male 90°+ M12 female 90°, 4-pole	Murrelektronik	PVC-OB 4x0,34mm2
-B4	1	1000932	Inductive proximity sensor	Sick	IME18-08BPSZC0K
-B4-W1	1	1001326	Prefab cable, PVC, 5 meter, connector M12 male 90°+ M12 female 90°, 4-pole	Murrelektronik	PVC-OB 4x0,34mm2
-B4-W1	1	1001600	Prefab cable, PVC, 10 meter, connector M12 male 90°+ M12 female 90°, 4-pole	Murrelektronik	PVC-OB 4x0,34mm2
-B4-W1	1	1006487	Prefab cable, PVC, 15 meter, connector M12 male 90°+ M12 female 90°, 4-pole	Murrelektronik	PVC-OB 4x0,34mm2
-B5	1	1000932	Inductive proximity sensor	Sick	IME18-08BPSZC0K
-B5-W1	1	1001326	Prefab cable, PVC, 5 meter, connector M12 male 90°+ M12 female 90°, 4-pole	Murrelektronik	PVC-OB 4x0,34mm2
-B5-W1	1	1001600	Prefab cable, PVC, 10 meter, connector M12 male 90°+ M12 female 90°, 4-pole	Murrelektronik	PVC-OB 4x0,34mm2
-B5-W1	1	1006487	Prefab cable, PVC, 15 meter, connector M12 male 90°+ M12 female 90°, 4-pole	Murrelektronik	PVC-OB 4x0,34mm2
-B6	1	1000932	Inductive proximity sensor	Sick	IME18-08BPSZC0K
-B6-W1	1	1001326	Prefab cable, PVC, 5 meter, connector M12 male 90°+ M12 female 90°, 4-pole	Murrelektronik	PVC-OB 4x0,34mm2
-B6-W1	1	1001600	Prefab cable, PVC, 10 meter, connector M12 male 90°+ M12 female 90°, 4-pole	Murrelektronik	PVC-OB 4x0,34mm2
-B6-W1	1	1006487	Prefab cable, PVC, 15 meter, connector M12 male 90°+ M12 female 90°, 4-pole	Murrelektronik	PVC-OB 4x0,34mm2
-B7	1	1000932	Inductive proximity sensor	Sick	IME18-08BPSZC0K
-B7-W1	1	1001326	Prefab cable, PVC, 5 meter, connector M12 male 90°+ M12 female 90°, 4-pole	Murrelektronik	PVC-OB 4x0,34mm2
-B7-W1	1	1001600	Prefab cable, PVC, 10 meter, connector M12 male 90°+ M12 female 90°, 4-pole	Murrelektronik	PVC-OB 4x0,34mm2
-B7-W1	1	1006487	Prefab cable, PVC, 15 meter, connector M12 male 90°+ M12 female 90°, 4-pole	Murrelektronik	PVC-OB 4x0,34mm2
-B8	1	1000932	Inductive proximity sensor	Sick	IME18-08BPSZC0K
-B8-W1	1	1001326	Prefab cable, PVC, 5 meter, connector M12 male 90°+ M12 female 90°, 4-pole	Murrelektronik	PVC-OB 4x0,34mm2
-B8-W1	1	1001600	Prefab cable, PVC, 10 meter, connector M12 male 90°+ M12 female 90°, 4-pole	Murrelektronik	PVC-OB 4x0,34mm2
-B8-W1	1	1006487	Prefab cable, PVC, 15 meter, connector M12 male 90°+ M12 female 90°, 4-pole	Murrelektronik	PVC-OB 4x0,34mm2
-U0	1	1003309	Passive plug-in terminal, 8-fold, 5-pole, M12	Murrelektronik	Exact12 8xM12 5-p



Description of the project

Prorunner mk9
Stand alone, Standard

Mounting location

Extra stop positions 1 - 4

Page description

Parts list

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