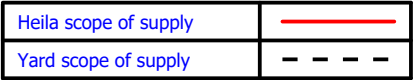


Structure identifier overview

Location	Description
+A1	Command Control Panel
+A2	Power Distribution Panel
+FB	Field boom
+FC	Field Column
+FN	Field Head
+FP	Field Pedestal
+FV	Field control valve block
+SR	Slip Ring
+CR	Cable Reel
+W1	Winch Junction Box
+P1	Pedestal Junction Box
+FW	Field Winch
+FK	

Location	Description



- 1) Please verify suggested cable size according to real cable length.
- 2) Please advice for outer diameter of all incoming cables.

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FIELD CONTROL

Control Panel 400x500x200 (WxHxD)

+FC-A1

+FC-D2

Winch Junction Box_1 / 4.1

Winch Junction Box_2 / 4.1

+FB-D1
Luffing Boom Angle Sensor

+FB-TCAN1

+FC-D2
Horn

Command Control Panel

Do not connect because the crane could not work

+FV-D1
PVDI Slewing Direction

+FV-D2
PVDI 1st Boom Direction

+FV-D3
PVDI 2nd Boom Direction

+FV-D4
PVDI Telescopic Direction

+FV-D5
PVDI Winch Direction

+FB-PT1
0-400 bar CRANE OVERLOAD 1st Boom Bottom

+FK-PT2
0-400 bar CRANE OVERLOAD 2st Boom Bottom

+FC-D1
Signal Tower

+FV-SV1
Electrovalve

+FC-D1
RRC

+FV-PVG1
Proportional Valve Slewing

+FV-PVG2
Proportional Valve 1st Boom

+FV-PVG3
Proportional Valve 2nd Boom

+FV-PVG4
Proportional Valve Telescopic

+FV-PVG5
Proportional Valve Winch

W10 12G1,5

W24 5x0,34

W25 5x0,34

W26 5x0,34

W30 3x0,75

W5 4x0,75

W6 4x0,75

W7 4x0,75

W8 4x0,75

W9 4x0,75

W12 5x0,34

W13 5x0,34

W14 6x1,5

W15 3G0,75

W16 5x0,5

W16.1 5x0,5

W18 3x0,75

W19 3x0,75

W20 3x0,75

W21 3x0,75

W22 3x0,75

A2

4 x1,5

2,8

Panel

Control Panel

Winch Junction Box_1 / 4.1

Winch Junction Box_2 / 4.1

+FB-D1
Luffing Boom Angle Sensor

+FB-TCAN1

+FC-D2
Horn

Command Control Panel

Do not connect because the crane could not work

+FV-D1
PVDI Slewing Direction

+FV-D2
PVDI 1st Boom Direction

+FV-D3
PVDI 2nd Boom Direction

+FV-D4
PVDI Telescopic Direction

+FV-D5
PVDI Winch Direction

+FB-PT1
0-400 bar CRANE OVERLOAD 1st Boom Bottom

+FK-PT2
0-400 bar CRANE OVERLOAD 2st Boom Bottom

+FC-D1
Signal Tower

+FV-SV1
Electrovalve

+FC-D1
RRC

+FV-PVG1
Proportional Valve Slewing

+FV-PVG2
Proportional Valve 1st Boom

+FV-PVG3
Proportional Valve 2nd Boom

+FV-PVG4
Proportional Valve Telescopic

+FV-PVG5
Proportional Valve Winch

W10 12G1,5

W24 5x0,34

W25 5x0,34

W26 5x0,34

W30 3x0,75

W5 4x0,75

W6 4x0,75

W7 4x0,75

W8 4x0,75

W9 4x0,75

W12 5x0,34

W13 5x0,34

W14 6x1,5

W15 3G0,75

W16 5x0,5

W16.1 5x0,5

W18 3x0,75

W19 3x0,75

W20 3x0,75

W21 3x0,75

W22 3x0,75

A2

4 x1,5

2,8

Panel

Control Panel

Winch Junction Box_1 / 4.1

Winch Junction Box_2 / 4.1

+FB-D1
Luffing Boom Angle Sensor

+FB-TCAN1

+FC-D2
Horn

Command Control Panel

Do not connect because the crane could not work

+FV-D1
PVDI Slewing Direction

+FV-D2
PVDI 1st Boom Direction

+FV-D3
PVDI 2nd Boom Direction

+FV-D4
PVDI Telescopic Direction

+FV-D5
PVDI Winch Direction

+FB-PT1
0-400 bar CRANE OVERLOAD 1st Boom Bottom

+FK-PT2
0-400 bar CRANE OVERLOAD 2st Boom Bottom

+FC-D1
Signal Tower

+FV-SV1
Electrovalve

+FC-D1
RRC

+FV-PVG1
Proportional Valve Slewing

+FV-PVG2
Proportional Valve 1st Boom

+FV-PVG3
Proportional Valve 2nd Boom

+FV-PVG4
Proportional Valve Telescopic

+FV-PVG5
Proportional Valve Winch

W10 12G1,5

W24 5x0,34

W25 5x0,34

W26 5x0,34

W30 3x0,75

W5 4x0,75

W6 4x0,75

W7 4x0,75

W8 4x0,75

W9 4x0,75

W12 5x0,34

W13 5x0,34

W14 6x1,5

W15 3G0,75

W16 5x0,5

W16.1 5x0,5

W18 3x0,75

W19 3x0,75

W20 3x0,75

W21 3x0,75

W22 3x0,75

A2

4 x1,5

2,8

Panel

Control Panel

Winch Junction Box_1 / 4.1

Winch Junction Box_2 / 4.1

+FB-D1
Luffing Boom Angle Sensor

+FB-TCAN1

+FC-D2
Horn

Command Control Panel

Do not connect because the crane could not work

+FV-D1
PVDI Slewing Direction

+FV-D2
PVDI 1st Boom Direction

+FV-D3
PVDI 2nd Boom Direction

+FV-D4
PVDI Telescopic Direction

+FV-D5
PVDI Winch Direction

+FB-PT1
0-400 bar CRANE OVERLOAD 1st Boom Bottom

+FK-PT2
0-400 bar CRANE OVERLOAD 2st Boom Bottom

+FC-D1
Signal Tower

+FV-SV1
Electrovalve

+FC-D1
RRC

+FV-PVG1
Proportional Valve Slewing

+FV-PVG2
Proportional Valve 1st Boom

+FV-PVG3
Proportional Valve 2nd Boom

+FV-PVG4
Proportional Valve Telescopic

+FV-PVG5
Proportional Valve Winch

W10 12G1,5

W24 5x0,34

W25 5x0,34

W26 5x0,34

W30 3x0,75

W5 4x0,75

W6 4x0,75

W7 4x0,75

W8 4x0,75

W9 4x0,75

W12 5x0,34

W13 5x0,34

W14 6x1,5

W15 3G0,75

W16 5x0,5

W16.1 5x0,5

W18 3x0,75

W19 3x0,75

W20 3x0,75

W21 3x0,75

W22 3x0,75

A2

4 x1,5

2,8

Panel

Control Panel

Winch Junction Box_1 / 4.1

Winch Junction Box_2 / 4.1

+FB-D1
Luffing Boom Angle Sensor

+FB-TCAN1

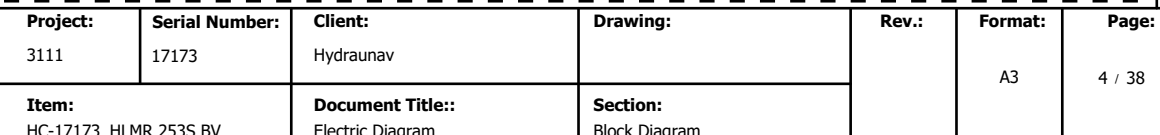
+FC-D2
Horn

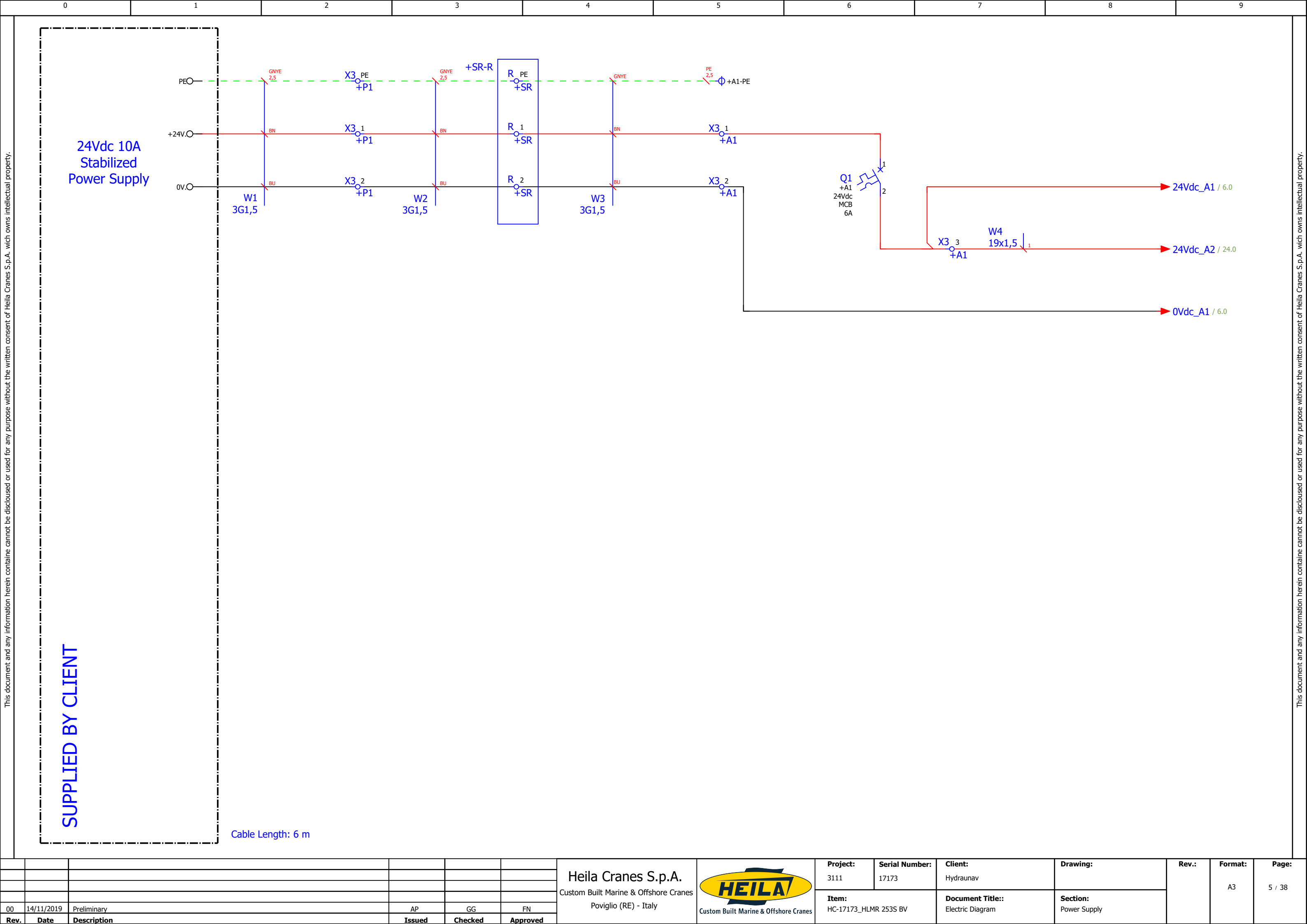
Command Control Panel

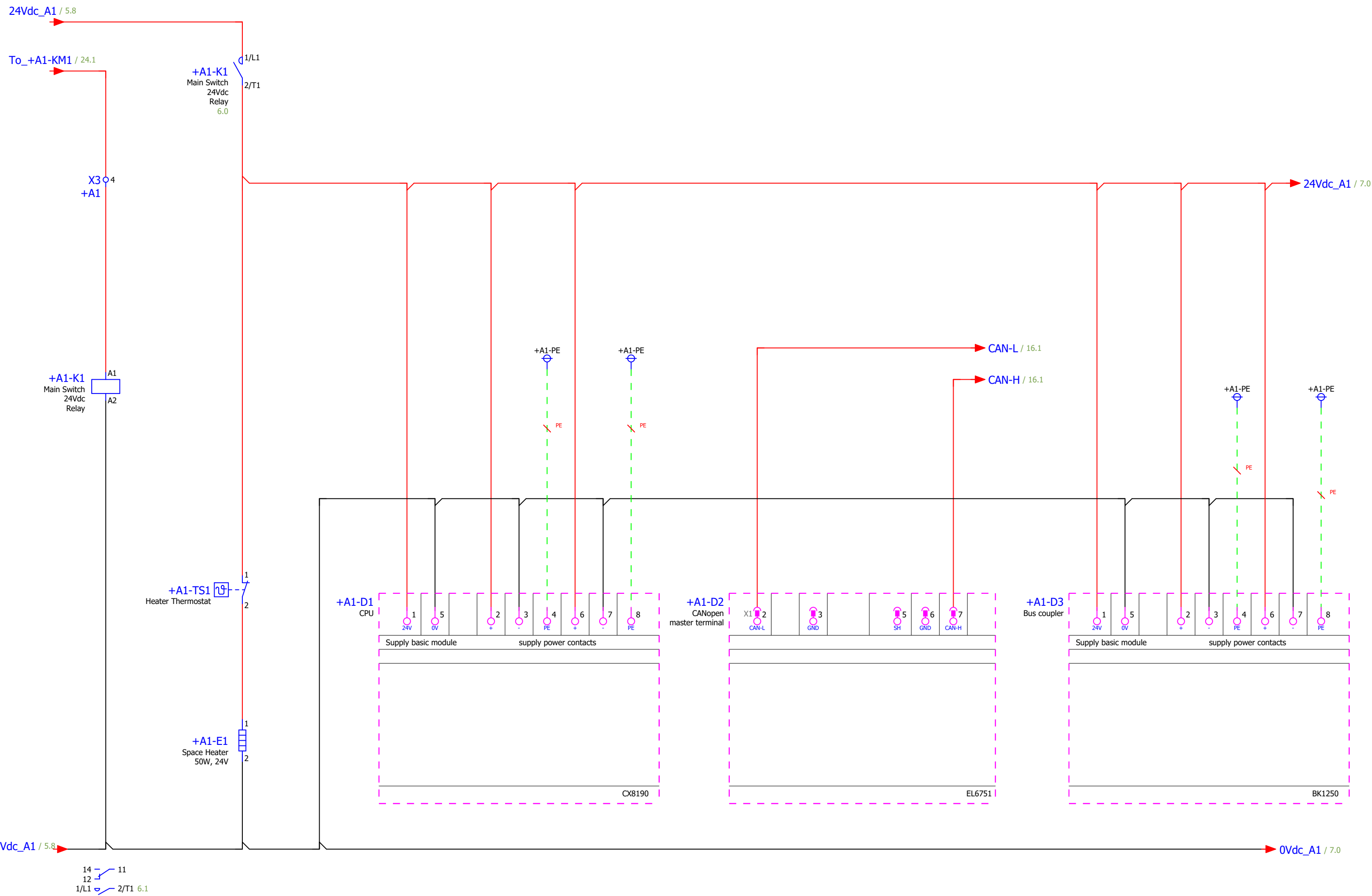
Do not connect because the crane could not work

+FV

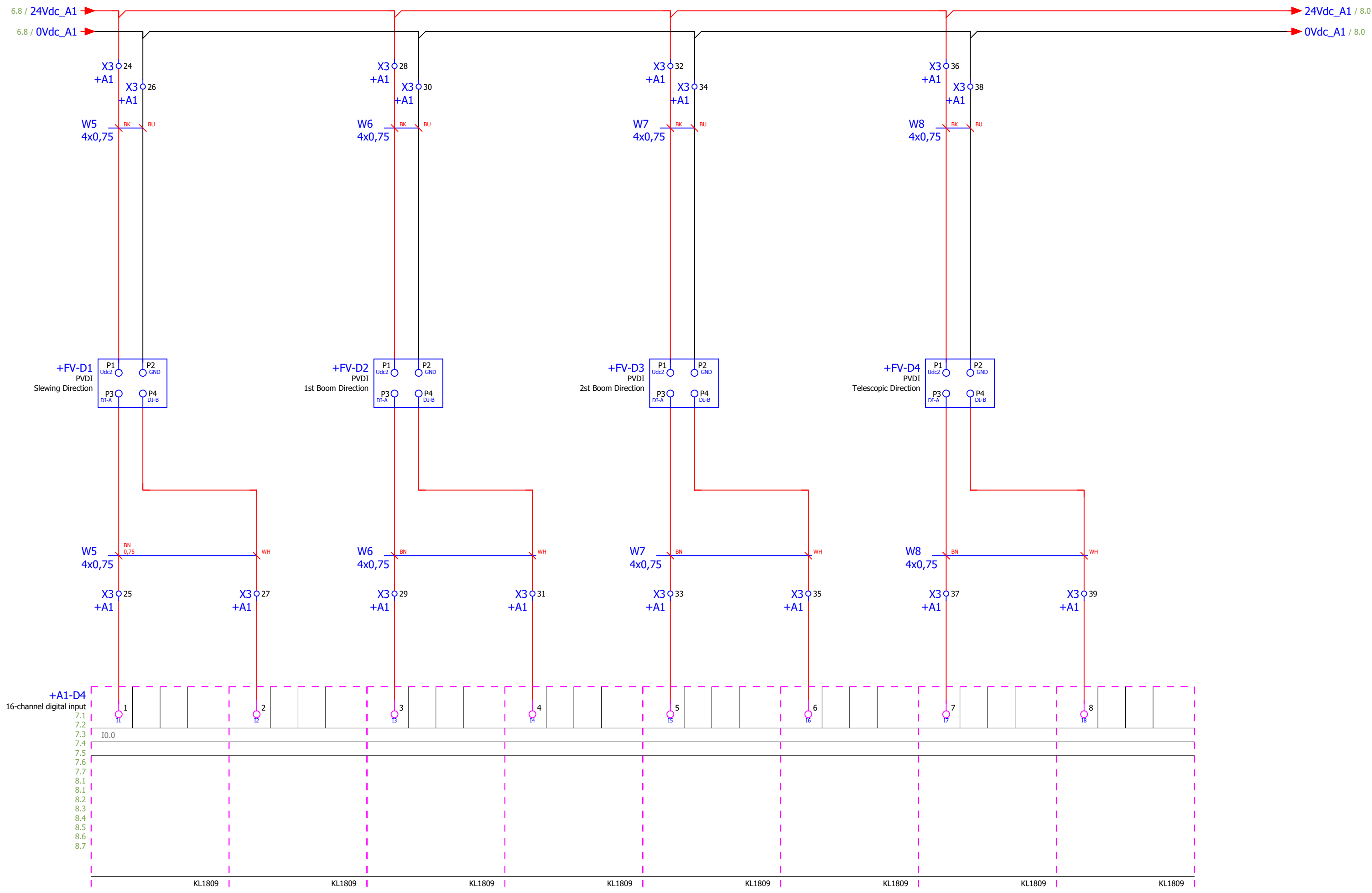
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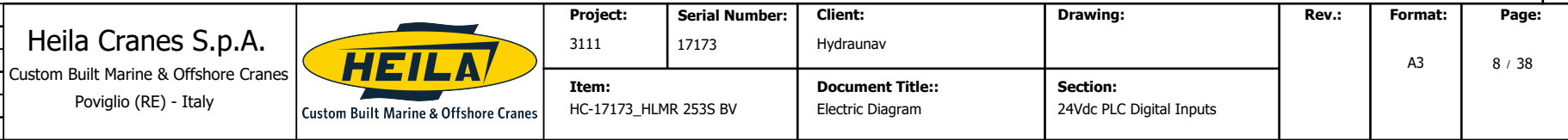




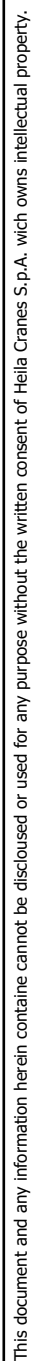
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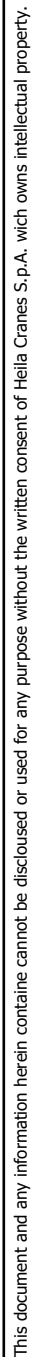
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+A1-D6
8-channel
analog input
0-20 mA
11.1

3
15

KL3448

7
16

KL3448

+FK-CR
10.1

4
17

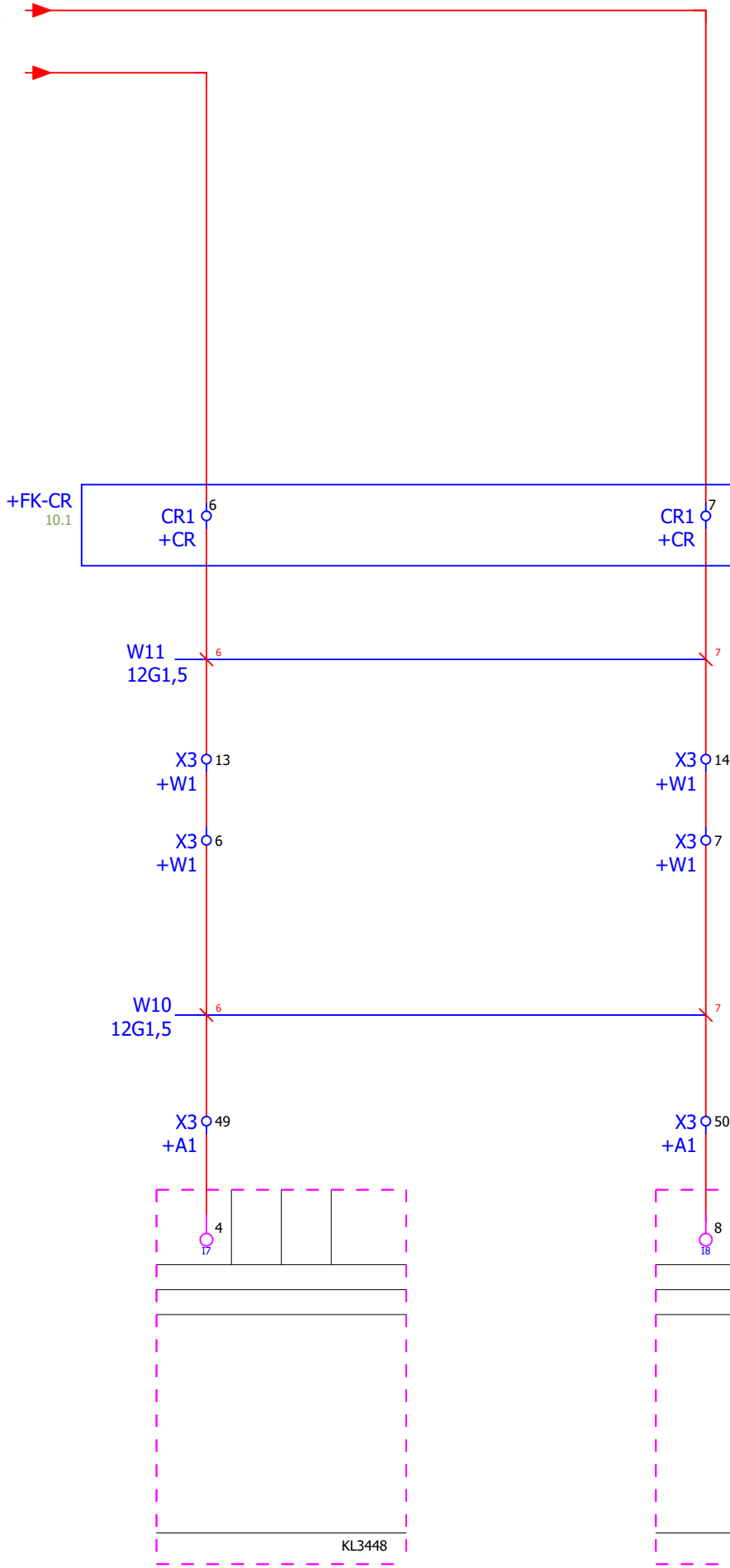
KL3448

8
18


KL3448

Hook_LPA / 26.1

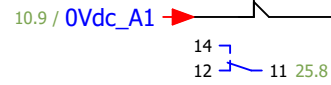
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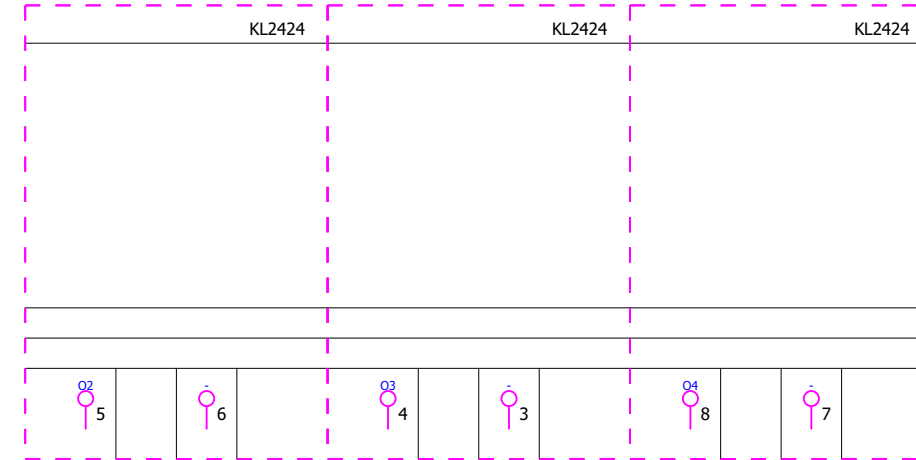
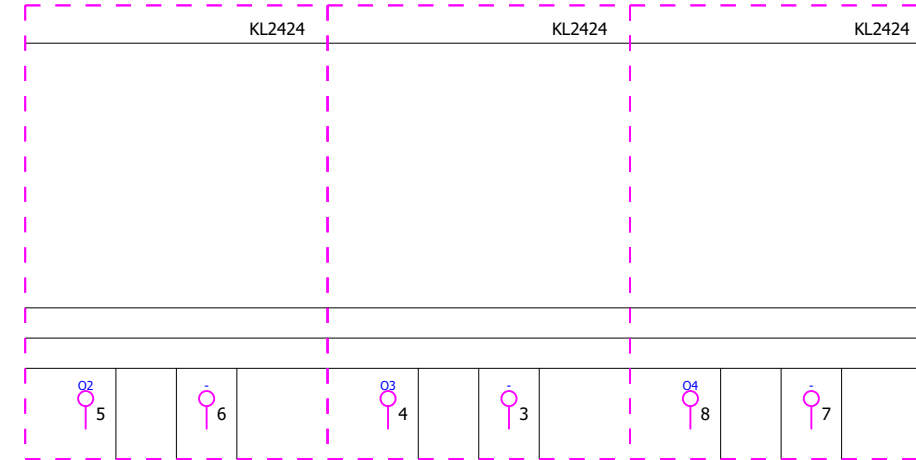
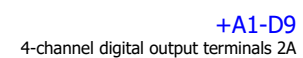
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Rev.	Date	Description	Issued	Checked	Approved									

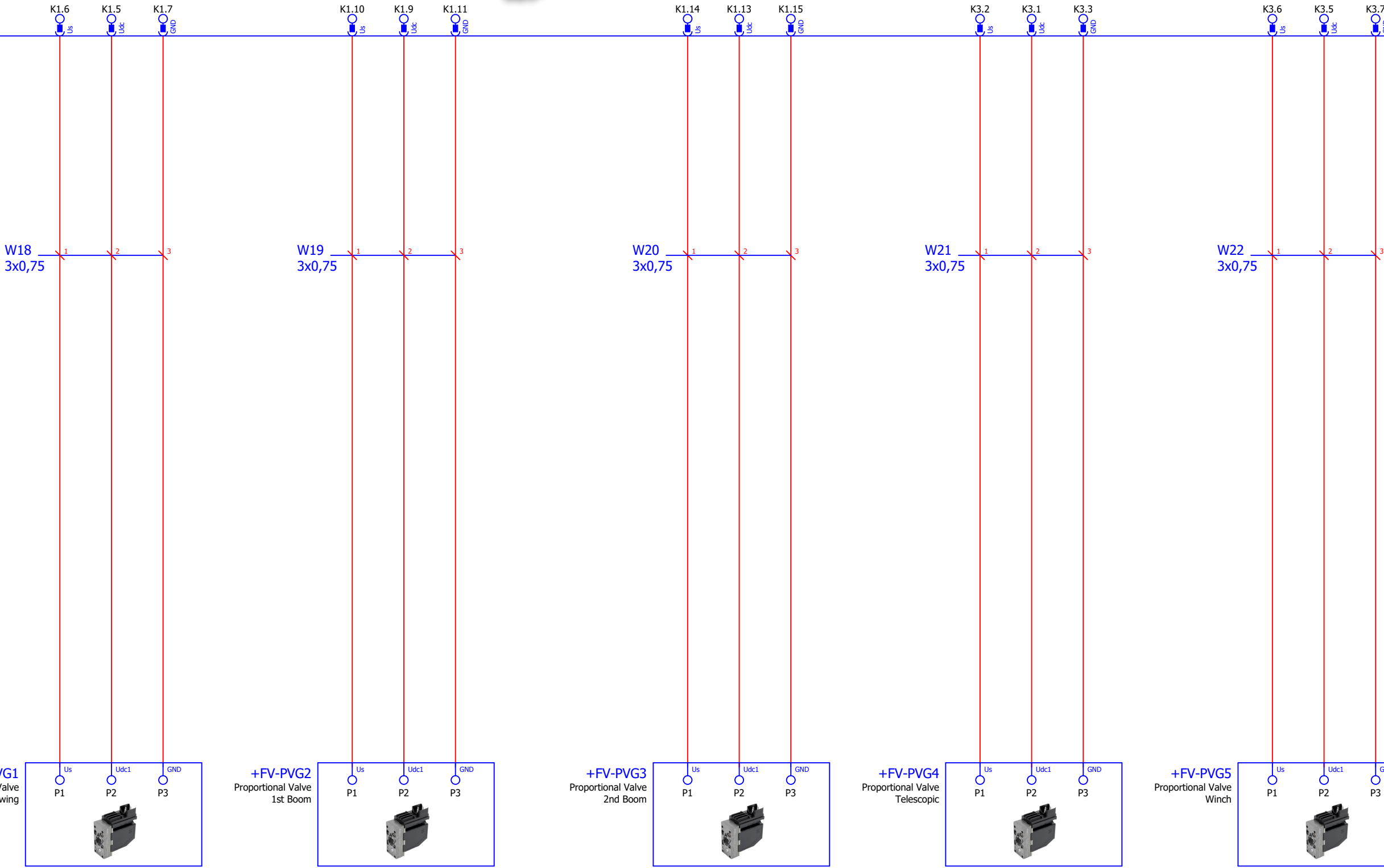
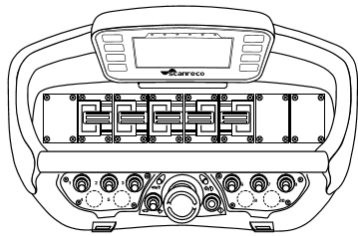


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+FC-D1
RRC
16.1

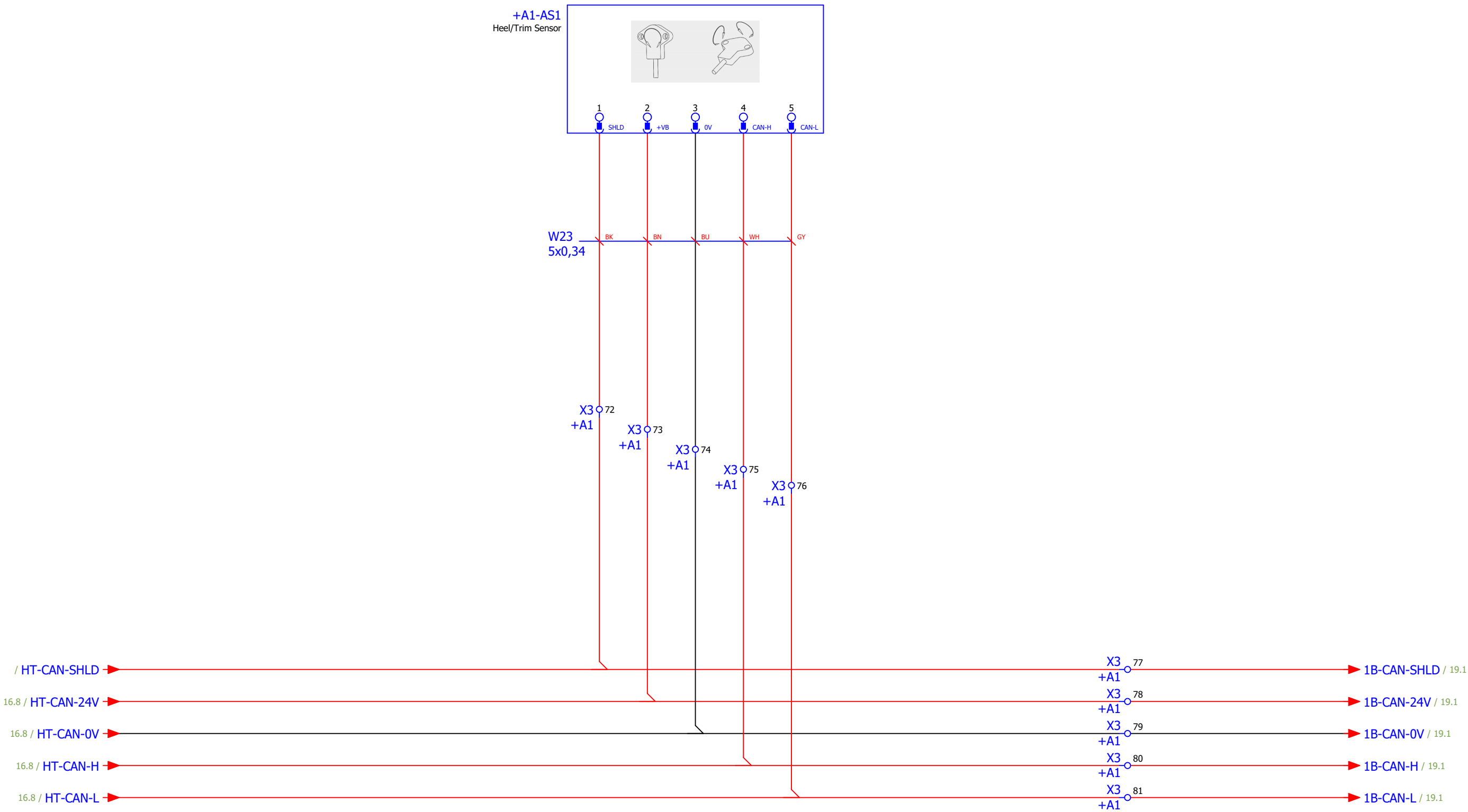


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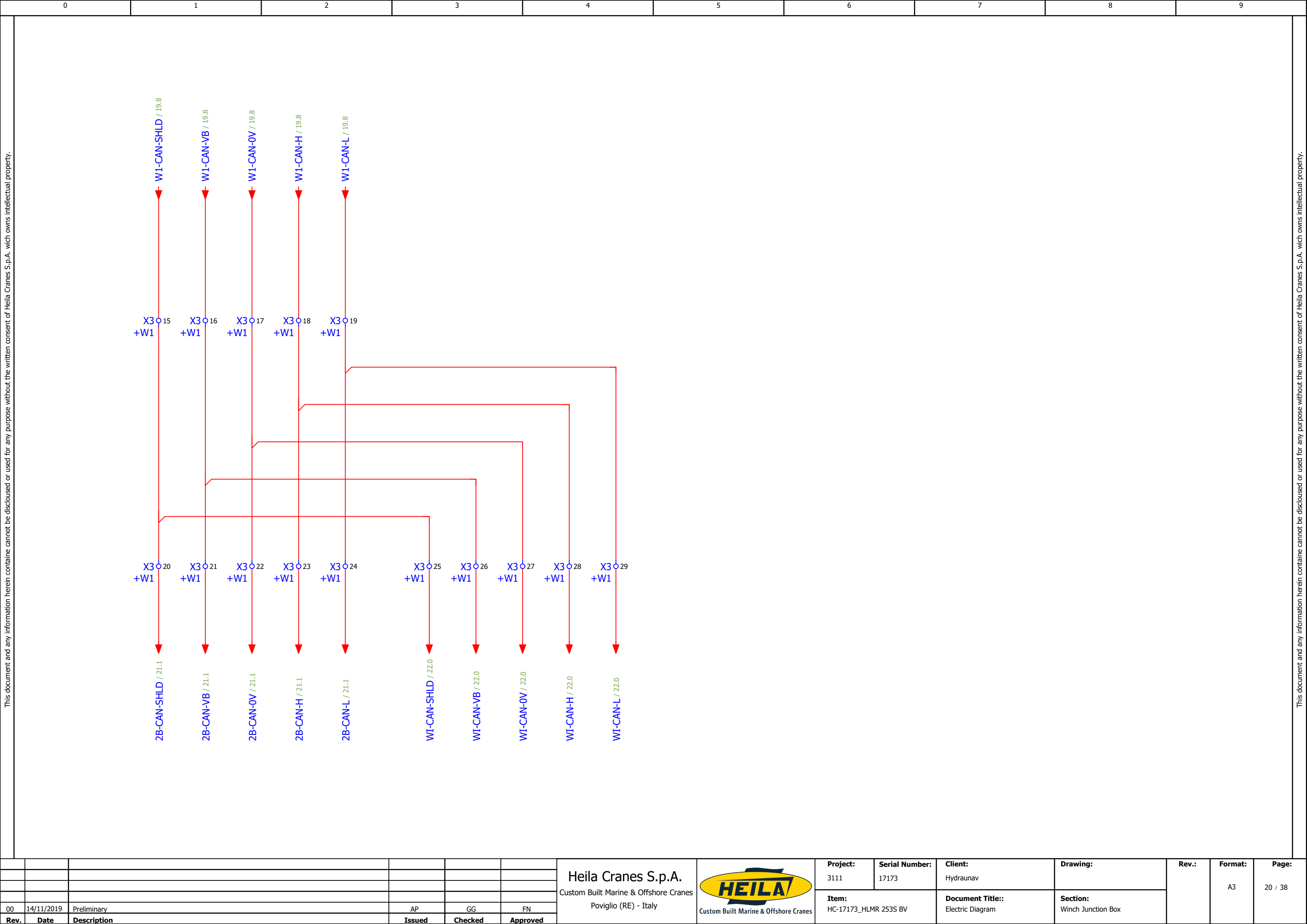


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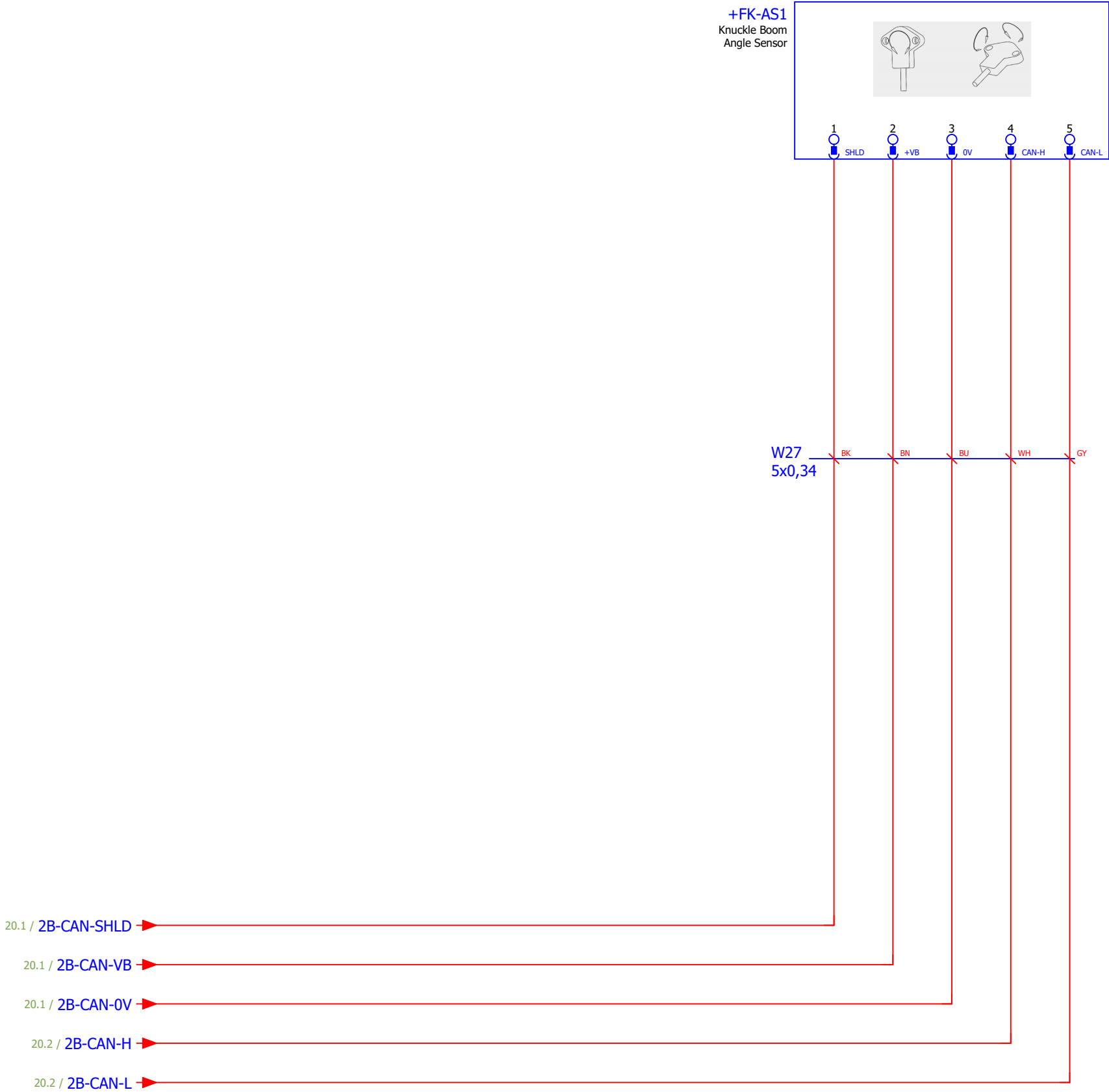
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Item: HC-17173_HLMR 253S BV		Document Title:: Electric Diagram	Section: Can Bus Circuit Angle Sensor - 1st Boom			



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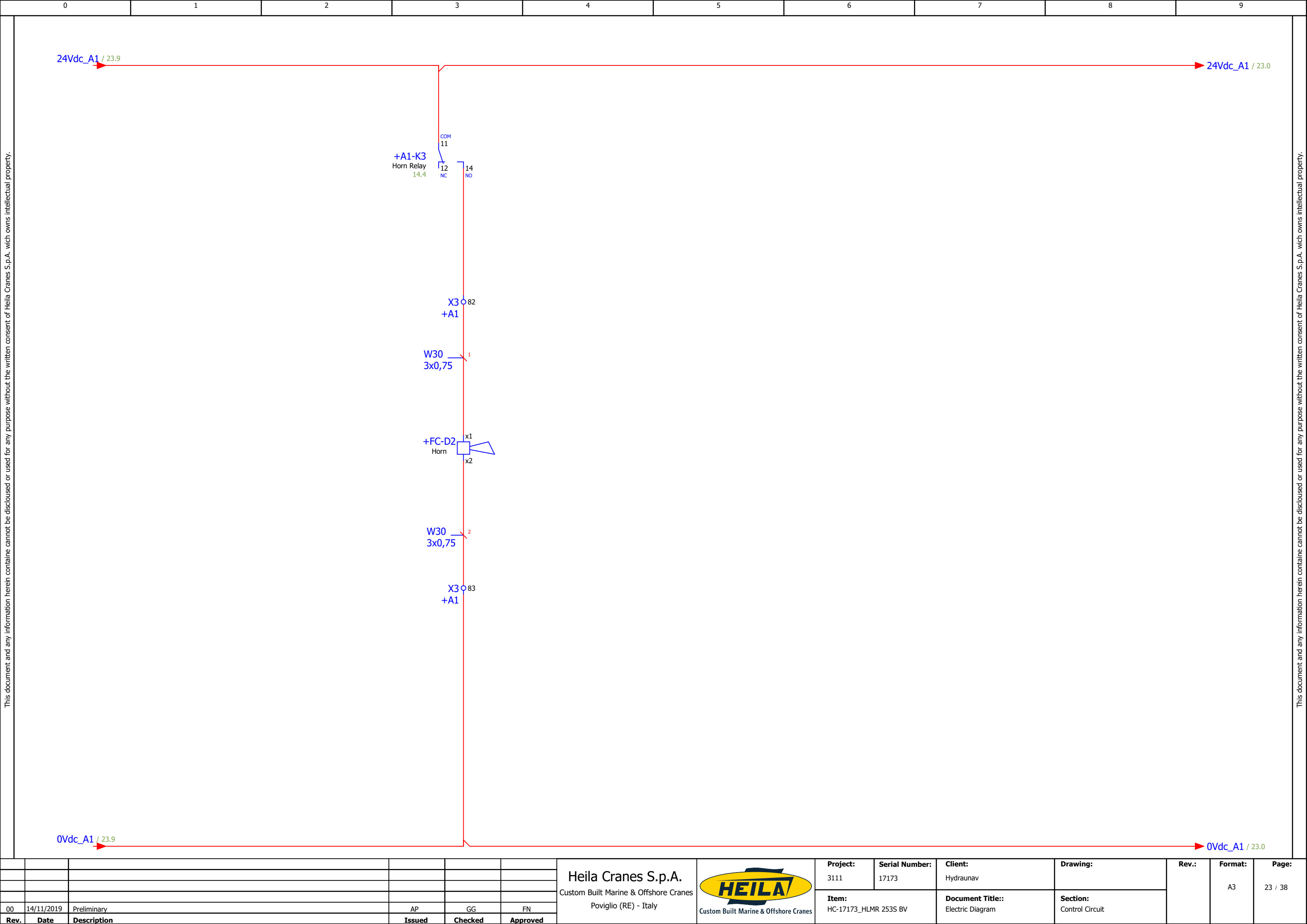


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								Item: HC-17173_HLMR 253S BV	Document Title:: Electric Diagram	Section: Can Bus Circuit Angle Sensor - 2nd Boom				
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Rev.	Date	Description	Issued	Checked	Approved									

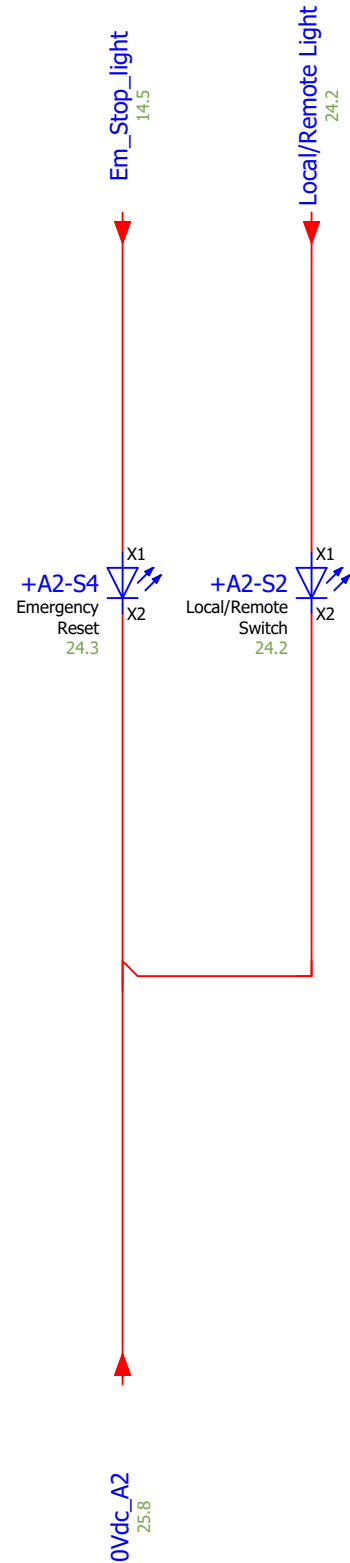
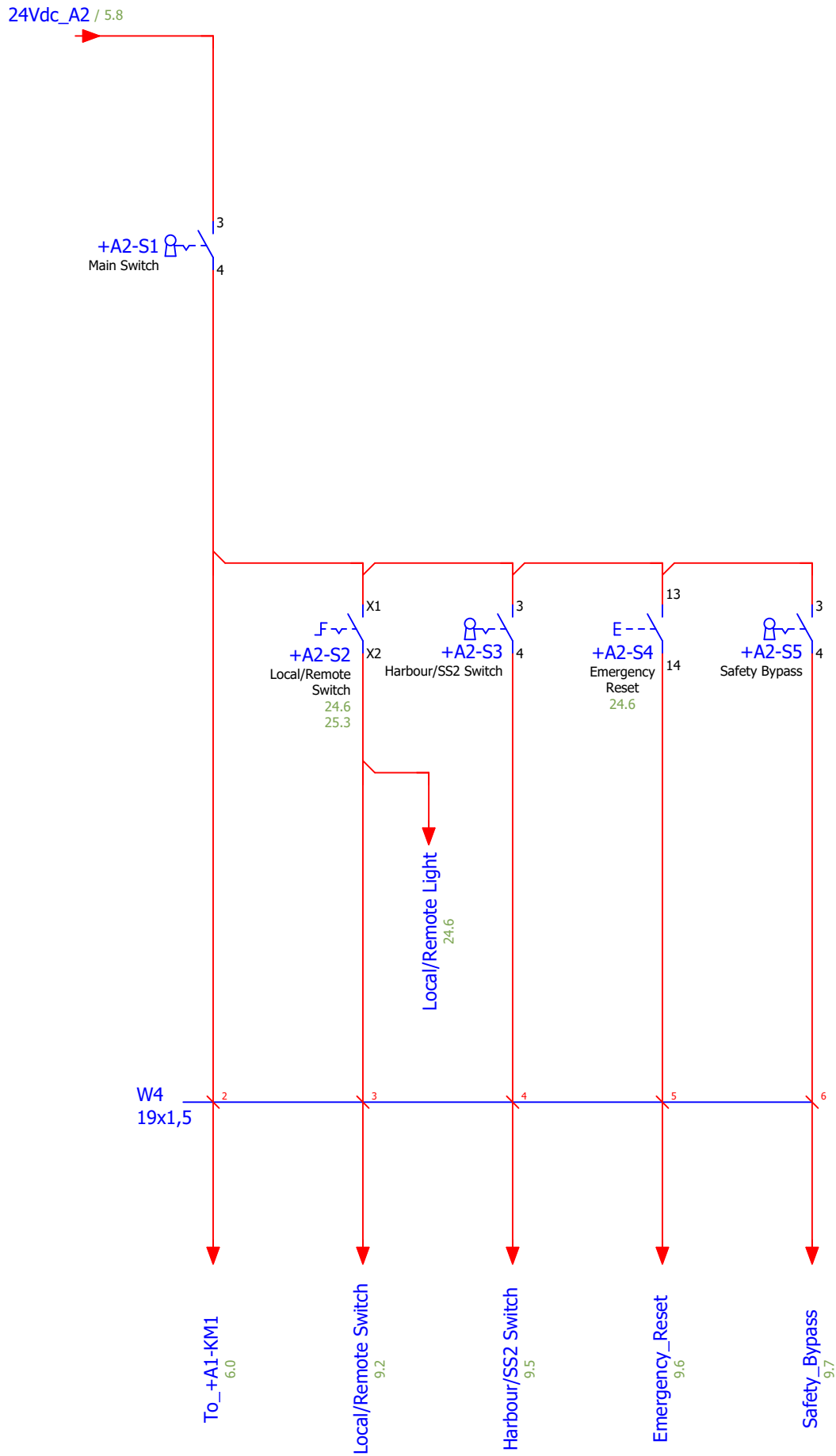
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Rev.	Date	Description	Issued	Checked	Approved									



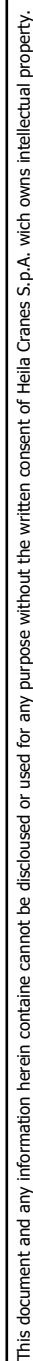
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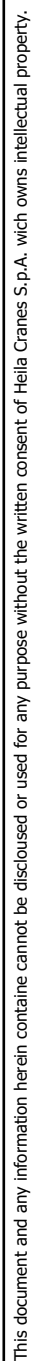
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		Item: HC-17173_HLMR 253S BV		Document Title:: Electric Diagram	Section: Operator Panel			

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Rev.	Date	Description	Issued	Checked	Approved									



Heila Cranes S.p.A.
Custom Built Marine & Offshore Cranes
Poviglio (RE) - Italy

Technical drawing of a square terminal block with dimensions and a wiring diagram.

Dimensions (mm):

- Overall width: 160/159.5
- Overall height: 160/159.5
- Inner width: 142/141.5
- Inner height: 142/141.5
- Terminal width: 84/83.5
- Terminal height: 114/113.5

Wiring Diagram:

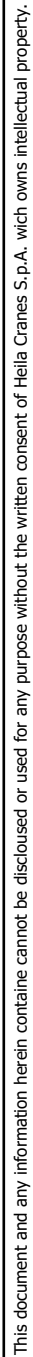
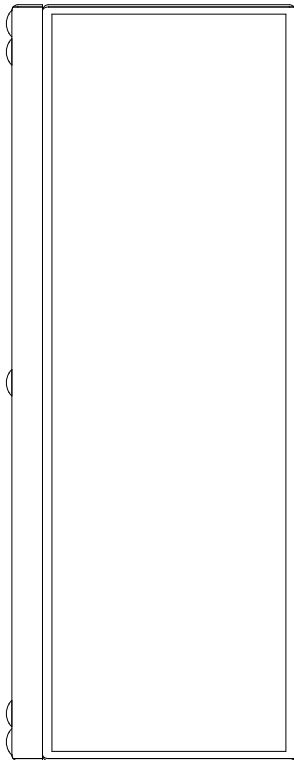
The diagram shows a cross-section of the terminal block with three columns of terminals labeled 1, 2, and PE. The terminals are arranged in a 3x3 grid. The terminals are color-coded: 1 (grey), 2 (orange), and PE (yellow). The terminals are connected to a common ground (PE) terminal. The terminals are labeled 1, 2, and PE. The terminals are connected to a common ground (PE) terminal. The terminals are labeled 1, 2, and PE. The terminals are connected to a common ground (PE) terminal.

Notes:

- X3

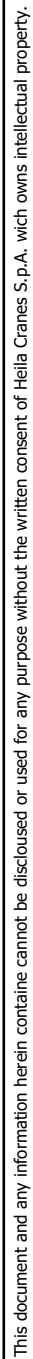
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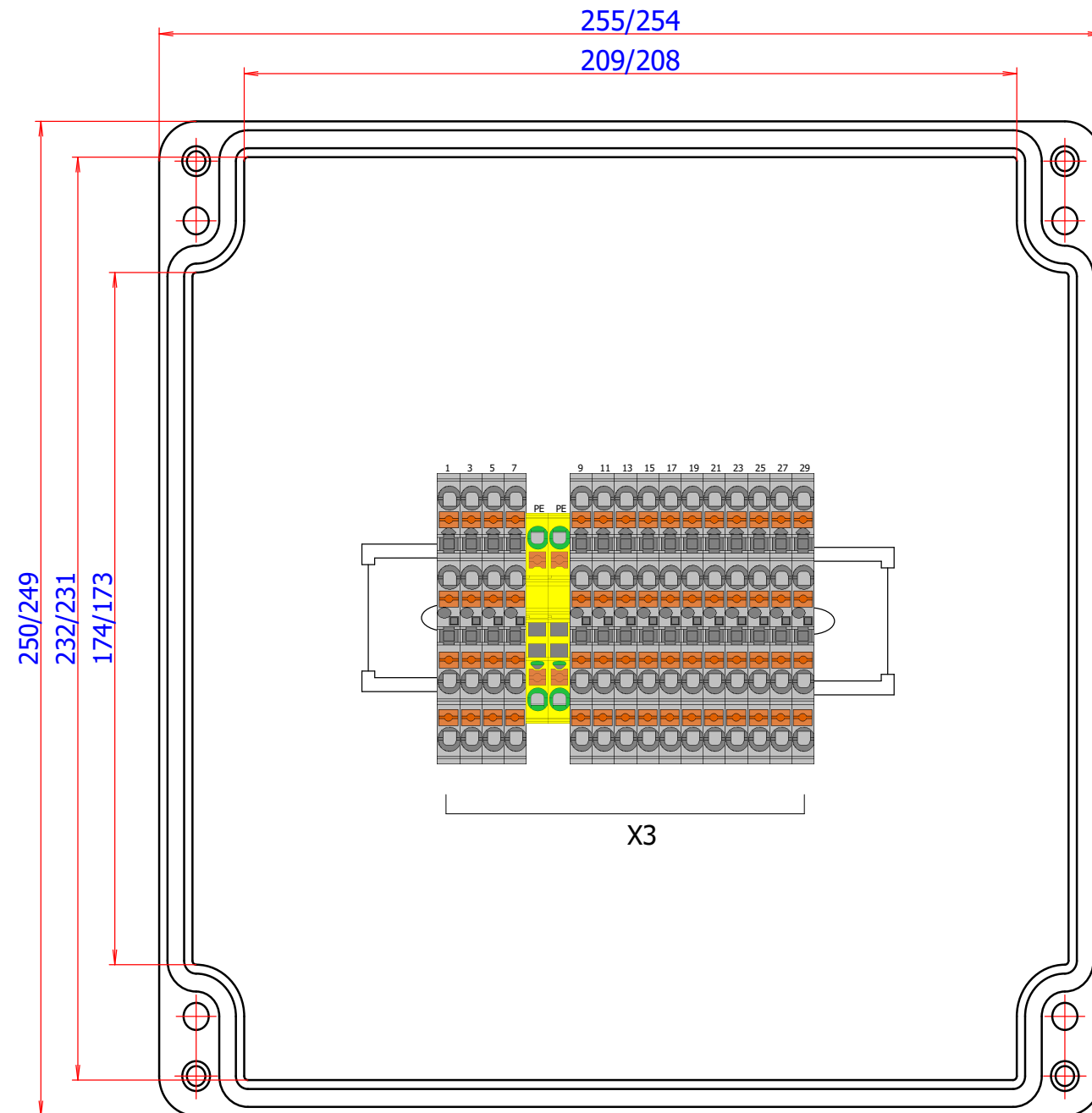
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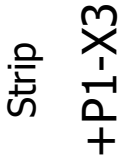


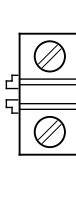

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Terminal diagram

F13_005 - con numero di filo sotto



Page	Function text	Potential	External targets	Internal targets	Function text		
				<div><div>Wiring</div></div>	<div><div>Wiring</div></div>		
		PE	+SR-R	W2	GN/VE	W1	PE
		+24V.	+SR-R	W2	BN	W1	+24V.
		0V.	+SR-R	W2	BU	W1	0V.

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Terminal diagram

F13_005 - con numero di filo sotto

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F13_005 - con numero di filo sotto

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Terminal diagram

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Page

Function text

Potential

External targets

Internal targets

Wiring

Knuckle Boom Angle Sensor	= = = =	+24V. 0V. +24V. PE PE 0V.	+A1-X3	W10	1
			+A1-X3	W10	2
			+A1-X3	W10	3
			+A1-X3	W10	4
			+A1-X3	W10	5
			+A1-X3	W10	6
			+A1-X3	W10	7
		+CR-CR1	W11	1	
		+A1-PE	W10	PE	
		+CR-CR1	W11	PE	
		+CR-CR1	W11	3	
		+CR-CR1	W11	2	
		+CR-CR1	W11	4	
		+CR-CR1	W11	5	
		+CR-CR1	W11	6	
		+CR-CR1	W11	7	
		-TCAN1	W26	BK	
		-TCAN1	W26	BN	
		-TCAN1	W26	BU	
		-TCAN1	W26	WH	
		-TCAN1	W26	GY	
		+FK-AS1	W27	BK	
		+FK-AS1	W27	BN	
		+FK-AS1	W27	BU	
		+FK-AS1	W27	WH	
		+FK-AS1	W27	GY	
			W28	BK	
			W28	BN	
			W29	BK	
			W29	BN	
	W29	BU			

Terminal diagram


F13_005 - con numero di filo sotto



Page	Function text	Potential	External targets		Internal targets	Function text
		+24V.	+W1-X3 W11 1	Wiring	1	+FN-S1 W31
		0V.	+W1-X3 W11 2		2	+FN-S1 W31
		PE	+W1-X3 W11 GND			
	Socket by W1		+FN-S1 W31 6		3	+W1-X3 W11
=			+FN-S1 W31 7		4	+W1-X3 W11
=			+FN-S1 W31 5		5	+W1-X3 W11
=			+FN-S1 W31 4		6	+W1-X3 W11
=			+FN-S1 W31 3		7	+W1-X3 W11

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0	1	2	3	4	5	6	7	8	9
<div>Parts list<div>F01_001</div></div>									
Device tag		Quantity	Designation		Type number		Supplier	Part number	
		0							
+A1-AS1		1	Inclinometer		PTDM27-CANOP-KAB0,3M		ASM	PTDM27-CANOP-KAB0,3M	
+A1-D1		1	DIN rail Industrial PC, 800 MHz ARM Cortex™-A9 processor (TC3: 20)		CX8190		BECKHOFF	BEC.CX8190	
+A1-D2		1	CANopen master terminal		EL6751		BECKHOFF	BEC.EL6751	
+A1-D3		1	EtherCAT "Compact" Coupler between EtherCAT Terminals (E-bus) and Bus Terminals (K-bus)		BK1250		BECKHOFF	BEC.BK1250	
+A1-D4		1	16-channel digital input terminal 24 V DC, filter 3.0 ms, type 3		KL1809		BECKHOFF	BEC.KL1809	
+A1-D5		1	16-channel digital input terminal 24 V DC, filter 3.0 ms, type 3		KL1809		BECKHOFF	BEC.KL1809	
+A1-D6		1	8-channel analog input terminal 0...20 mA, 12 bit, 1-wire system		KL3448		BECKHOFF	BEC.KL3448	
+A1-D7		1	16-channel digital output terminal 24 V DC, 0.5 A, 1-wire system		KL2809		BECKHOFF	BEC.KL2809	
+A1-D8		1	Power supply terminal with diagnostics, 24 V DC		KL9110		BECKHOFF	BEC.KL9110	
+A1-D9		1	4-channel digital output terminal 24 V DC, 2 A with polarity protection, 2-wire system		KL2424		BECKHOFF	BEC.KL2424	
+A1-E1		1	Space Heater		HP05-1/10-24		DBK	HP05-1/10-24	
+A1-K1		1	SPDT Relay, 24Vdc		G2R-1-SNI-24DC(S)		OMRON	G2R-1-SNI-24DC(S)	
+A1-K1		1	Electromechanical relays, Industrial plug-in relays, G2R_-_S		P2RF-05-E		OMRON	OMR.P2RF-05-E	
+A1-K2		1	Electromechanical relays, Industrial plug-in relays, G2RV		G2RV-SR700 DC24		OMRON	G2RV-SR700_DC24	
+A1-K3		1	Electromechanical relays, Industrial plug-in relays, G2RV		G2RV-SR700 DC24		OMRON	G2RV-SR700_DC24	
+A1-K4		1	Electromechanical relays, Industrial plug-in relays, G2RV		G2RV-SR700 DC24		OMR	OMR.G2RV-SR700_DC24	
+A1-K5		1	Electromechanical relays, Industrial plug-in relays, G2RV		G2RV-SR700 DC24		OMR	OMR.G2RV-SR700_DC24	
+A1-Q1		1	Miniature circuit breaker iC60N, 1P, 6A, C		A9F79106		SCHNEIDER	SE.A9F79106	
+A1-TS1		1	Electronic Hygrotherm		FGT 308 In-Line Thermostate Package		DBK	FGT 308 In-Line Thermostate Package	
+A1-U1		1	Safety relays		PSR-SCP- 24UC/ESA4/3X1/1X2/B		PHOENIX CONTACT	2963763	
+A2-S1		1	black selector switch head Ø22 2-position stay put Ronis 455		ZB5AG2		SCHNEIDER	ZB5AG2	
+A2-S1		1	Body fixing collar for electrical block		ZB5AZ009		SCHNEIDER	ZB5AZ009	
+A2-S1		1	Harmony XB5 1NO contact		ZBE101		SCHNEIDER	ZBE101	
+A2-S2		1	White light block for head Ø22 integral LED 24V screw clamp termils		ZBVB1		SCHNEIDER	ZBVB1	
+A2-S2		1	Green illumited selector switch head Ø22 2-position stay put		ZB5AK1233		SCHNEIDER	ZB5AK1233	
+A2-S2		1	Body fixing collar for electrical block		ZB5AZ009		SCHNEIDER	ZB5AZ009	
+A2-S2		1	Harmony XB5 1NO contact		ZBE101		SCHNEIDER	ZBE101	
+A2-S2		2	Harmony XB5 1NC contact		ZBE102		SCHNEIDER	ZBE102	
+A2-S3		1	selector switch head Ø22 2-position spring return Dom 8D1		ZB5AG6D		SCHNEIDER	ZB5AG6D	
+A2-S3		1	Body fixing collar for electrical block		ZB5AZ009		SCHNEIDER	ZB5AZ009	
+A2-S3		1	Harmony XB5 1NO contact		ZBE101		SCHNEIDER	ZBE101	
+A2-S4		1	Blue flush pushbutton head Ø22 spring return unmarked		ZB5AA6		SCHNEIDER	ZB5AA6	
+A2-S4		1	Harmony XB5 1NO contact		ZBE101		SCHNEIDER	ZBE101	
+A2-S4		1	Body fixing collar for electrical block		ZB5AZ009		SCHNEIDER	ZB5AZ009	
+A2-S4		1	White light block for head Ø22 integral LED 24V screw clamp termils		ZBVB1		SCHNEIDER	ZBVB1	
+A2-S5		1	selector switch head Ø22 2-position spring return Dom 8D1		ZB5AG6D		SCHNEIDER	ZB5AG6D	
+A2-S5		1	Body fixing collar for electrical block		ZB5AZ009		SCHNEIDER	ZB5AZ009	
+A2-S5		1	Harmony XB5 1NO contact		ZBE101		SCHNEIDER	ZBE101	
+A2-S6		1	Red Ø40 Emergency stop, switching off head Ø22 trigger and latching turn release		ZB5AS844		SCHNEIDER	ZB5AS844	
+A2-S6		1	Body fixing collar for electrical block		ZB5AZ009		SCHNEIDER	ZB5AZ009	
+A2-S6		1	Harmony XB5 1NC contact		ZBE102		SCHNEIDER	ZBE102	
+A2-S6		1	Yellow metal padlockable guard for Ø40 mushroom head		ZBZ1605		SCHNEIDER	ZBZ1605	
+FB-AS1		1	Inclinometer		PTDM27-CANOP-KAB0,3M		ASM	PTDM27-CANOP-KAB0,3M	
+FB-PT1		1	Electronic pressure sensor		PT5400		IFM	IFM.PT5400	
+FB-TCAN1		1	T distributor		1541186		PHOENIX CONTACT	1541186	
+FC-A1		1	Control Cabinet		MVCB404015/67		DELVALLE	MVCB404015/67	
+FC-A2		1	push-button box		02.10 32 08 (IP67)		ROSE	02.10 32 08 (IP67)	
+FC-D1		1	SCANRECO G2B Danfoss type		PR8MUD35SH64		FABERCOM	PR8MUD35SH64	
+FC-D2		1	Signal horn 24VDC IP66 110DB		90003R5		HOSIDEN BESSON	90003R5	
+FC-ST1		1	Signal Tower		A1003850010		FABERCOM	A1003850010	
+FC-ST1		1	Mounting Bracket Signal Tower		A3002700020		FABERCOM	A3002700020	
+FN-LP2		1	Load Pin TBD		Load Pin TBD			Load Pin TBD	
+FN-S1		1	Socket		SP2111/S8II3		WEIPU	SP2111/S8II3	
+FN-S2		1	Plug		SP2110/P8II3		WEIPU	SP2110/P8II3	
+FN-S3		1	Proximity Sensor		XS608B1PBL5		SCHNEIDER	XS608B1PBL5	

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