

Systeme Helmholz GmbH  
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91091 Großenseebach  
Ph. +49 9135 7380-0, Fax +49 9135 7380-110  
info@helmholz.de, www.helmholz.de



# Helmholz TB20 Makros

Bearbeitet am28. 10. 2015von (Kürzel) AMAnzahl der Seiten70

Inhaltsverzeichnis

Seite	Seitenbeschreibung	Seitenzusatzfeld	Datum	Bearbeiter	X
1	Deckblatt		23. 10. 2015	AM	X
2	Inhalt		28. 10. 2015	AM	
3	Inhalt		23. 10. 2015	AM	
4	Inhalt		28. 10. 2015	AM	
10	HEL.600-151-1AA11		23. 10. 2015	AM	
11	HEL.600-160-1AA11		23. 10. 2015	AM	
12	HEL.600-170-1AA11		23. 10. 2015	AM	
13	HEL.600-175-1AA11		23. 10. 2015	AM	
14	HEL.600-180-1AA11		23. 10. 2015	AM	
15	HEL.600-185-1AA11		23. 10. 2015	AM	
20	HEL.600-210-0AB01		23. 10. 2015	AM	
21	HEL.600-210-0AD01		23. 10. 2015	AM	
22	HEL.600-210-0AH01		23. 10. 2015	AM	
23	HEL.600-210-0AP21		23. 10. 2015	AM	
24	HEL.600-210-0CC01		23. 10. 2015	AM	
25	HEL.600-210-0CF21		23. 10. 2015	AM	
30	HEL.600-211-0BB01		23. 10. 2015	AM	
31	HEL.600-211-0BD01		23. 10. 2015	AM	
32	HEL.600-211-0BH21		28. 10. 2015	AM	
40	HEL.600-220-0AB01		23. 10. 2015	AM	
41	HEL.600-220-0AD01		23. 10. 2015	AM	
42	HEL.600-220-0AH01		23. 10. 2015	AM	
43	HEL.600-220-0AP21		23. 10. 2015	AM	
44	HEL.600-220-0BB01		23. 10. 2015	AM	
45	HEL.600-220-0BD01		23. 10. 2015	AM	
46	HEL.600-220-7AD01		23. 10. 2015	AM	
47	HEL.600-220-7AH01		23. 10. 2015	AM	
48	HEL.600-220-7AP21		23. 10. 2015	AM	
50	HEL.600-222-0AB01		23. 10. 2015	AM	
51	HEL.600-222-0AD21		23. 10. 2015	AM	
60	HEL.600-230-0AD01		23. 10. 2015	AM	
61	HEL.600-230-0AH01		23. 10. 2015	AM	
62	HEL.600-230-0AP21		23. 10. 2015	AM	

Inhaltsverzeichnis

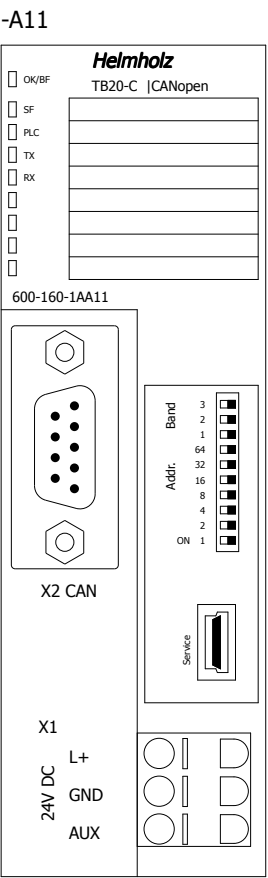
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Seite	Seitenbeschreibung	Seitenzusatzfeld	Datum	Bearbeiter	X
70	HEL.600-250-4AB01		23. 10. 2015	AM	
71	HEL.600-250-4AD01		23. 10. 2015	AM	
72	HEL.600-250-7BB01		23. 10. 2015	AM	
73	HEL.600-250-7BD01		23. 10. 2015	AM	
74	HEL.600-250-7BH21		23. 10. 2015	AM	
80	HEL.600-252-4AB01		23. 10. 2015	AM	
81	HEL.600-252-4AD01		23. 10. 2015	AM	
82	HEL.600-252-4CB01		23. 10. 2015	AM	
83	HEL.600-252-4CD01		23. 10. 2015	AM	
84	HEL.600-252-7BB01		23. 10. 2015	AM	
85	HEL.600-252-7BD01		23. 10. 2015	AM	
86	HEL.600-252-7BH21		23. 10. 2015	AM	
90	HEL.600-253-4AB01		23. 10. 2015	AM	
91	HEL.600-253-4AD01		23. 10. 2015	AM	
100	HEL.600-254-4AB01		23. 10. 2015	AM	
101	HEL.600-254-4AB02		23. 10. 2015	AM	
102	HEL.600-254-4AD01		23. 10. 2015	AM	
103	HEL.600-254-4AD02		23. 10. 2015	AM	
104	HEL.600-254-4AH22		23. 10. 2015	AM	
110	HEL.600-255-7AA21		23. 10. 2015	AM	
111	HEL.600-255-7BA21		23. 10. 2015	AM	
120	HEL.600-260-4AB01		23. 10. 2015	AM	
121	HEL.600-260-4AD01		23. 10. 2015	AM	
130	HEL.600-261-4AB01		23. 10. 2015	AM	
131	HEL.600-261-4AD01		23. 10. 2015	AM	
140	HEL.600-300-7AA01		23. 10. 2015	AM	
150	HEL.600-310-7AA01		23. 10. 2015	AM	
160	HEL.600-320-7AA01		23. 10. 2015	AM	
170	HEL.600-400-7AA31		23. 10. 2015	AM	
180	HEL.600-700-0AA01		23. 10. 2015	AM	
190	HEL.600-710-0AA01		23. 10. 2015	AM	
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600-170-1AA11



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


X2

Mac Addr.



Service

24V DC      L+      D

GND          -      D

AUX            +      D

			Gepr.		Systeme Helmholz GmbH Hannberger Weg 2 91091 Großenseebach Ph. +49 9135 7380-0, Fax +49 9135 7380-110 info@helmholz.de, www.helmholz.de		 COMPATIBLE WITH YOU	HEL.600-170-1AA11			+		
			Bearb.	AM									
			Datum	28. 10. 2015									12
Änderung	Datum	Name	Norm		Urspr.	Ers.f.	Ers.d.			Helmholz TB20 Makros		von	210 Bl.



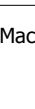



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
  

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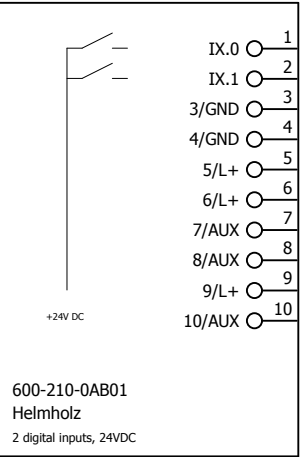
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GND

AUX

			Gepr.		Systeme Helmholz GmbH Hannberger Weg 2 91091 Großenseebach Ph. +49 9135 7380-0, Fax +49 9135 7380-110 info@helmholz.de, www.helmholz.de		 COMPATIBLE WITH YOU	HEL.600-180-1AA11			+		
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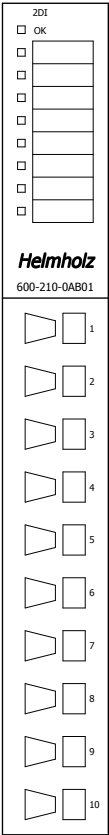


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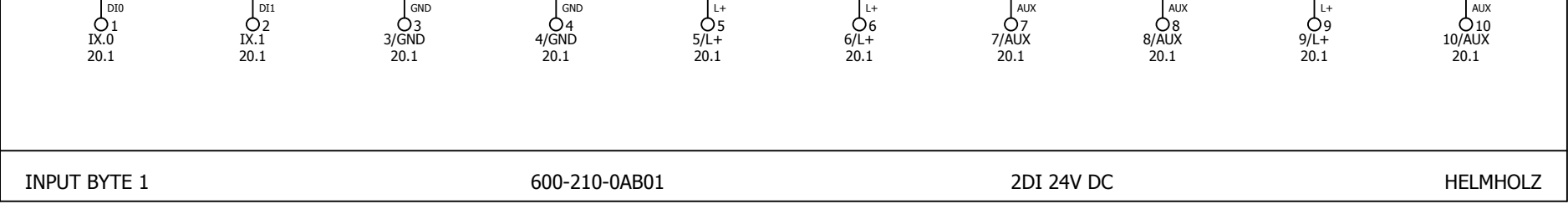


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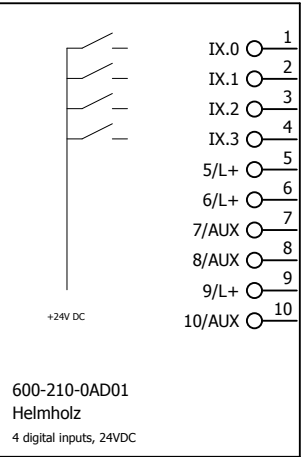
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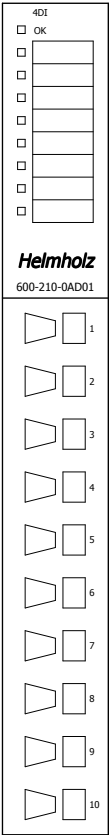
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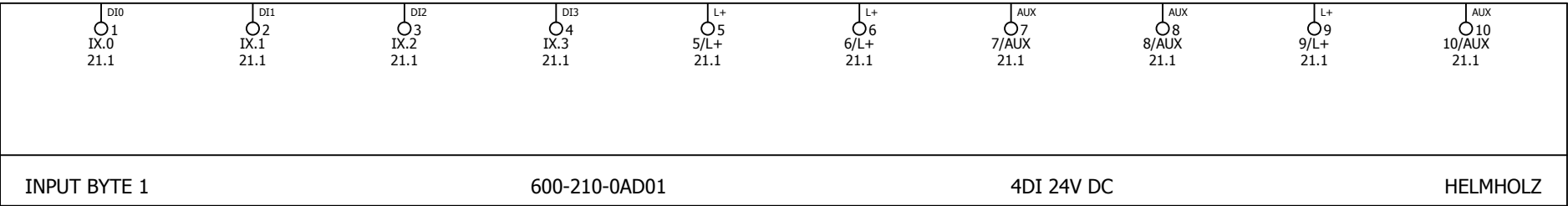


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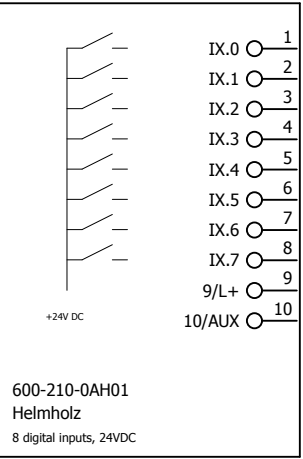


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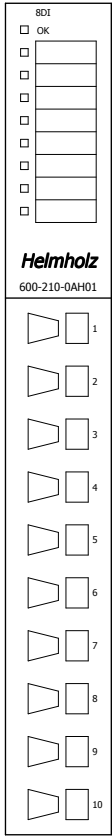
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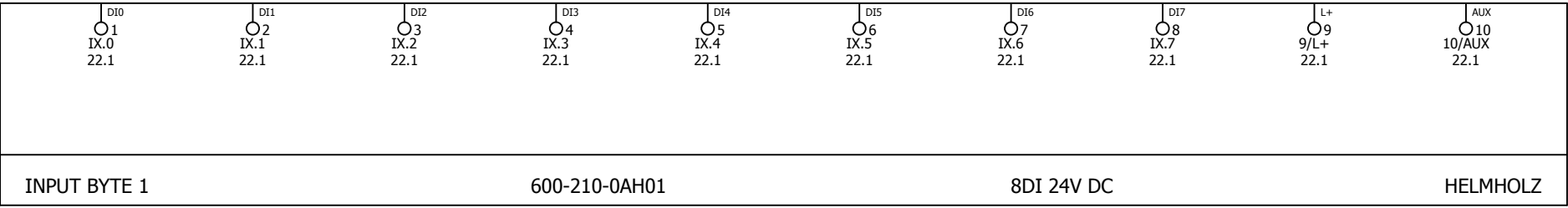


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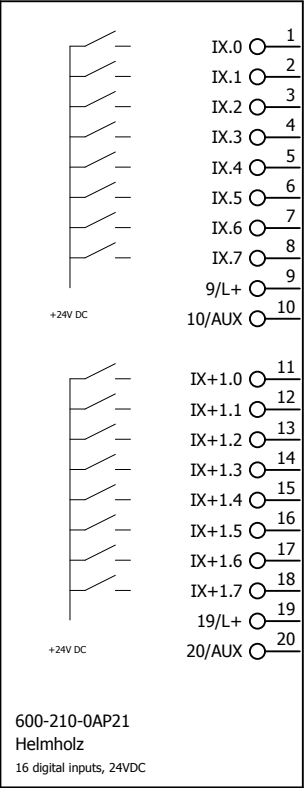


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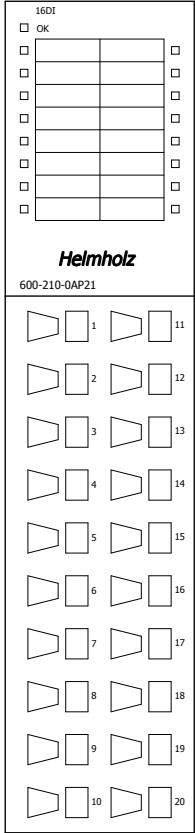
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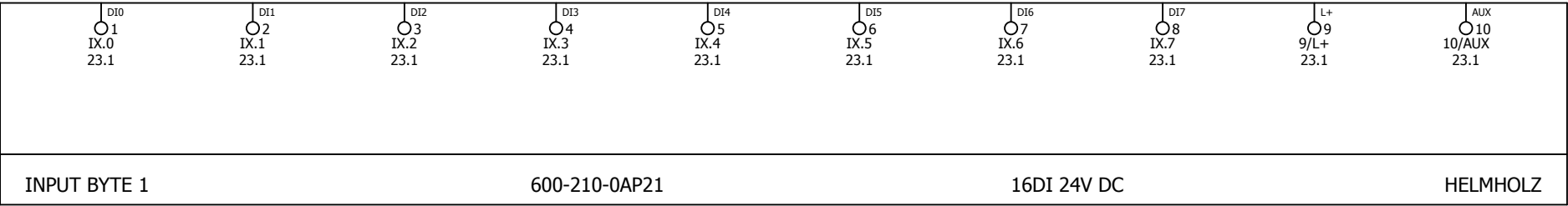
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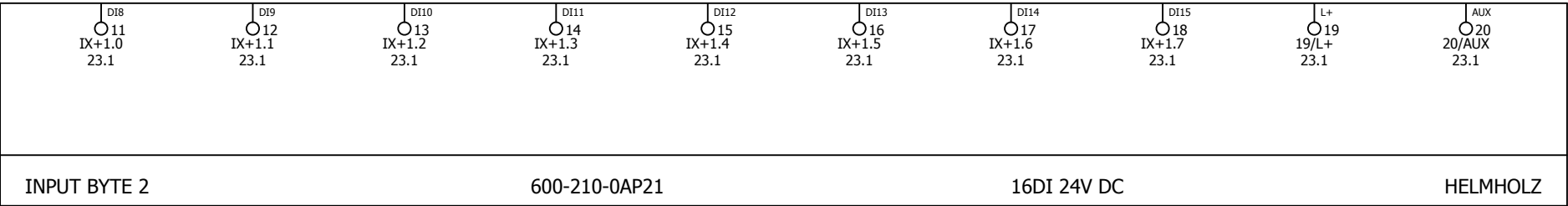


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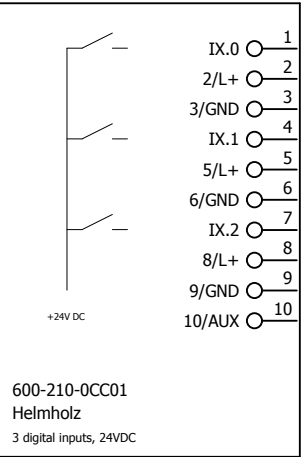
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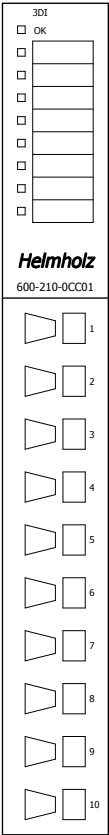
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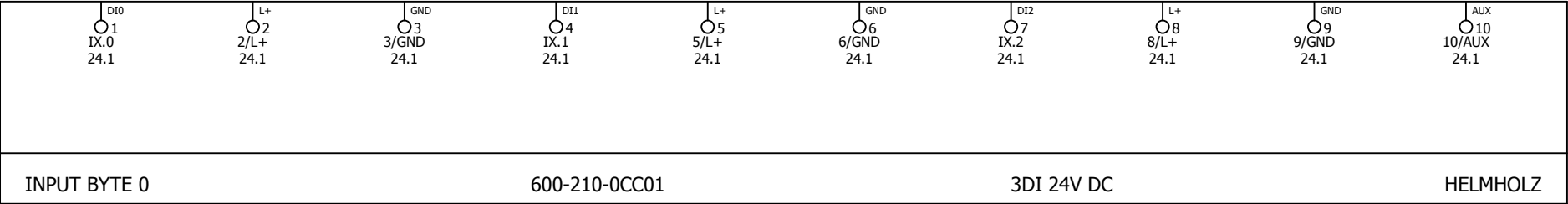


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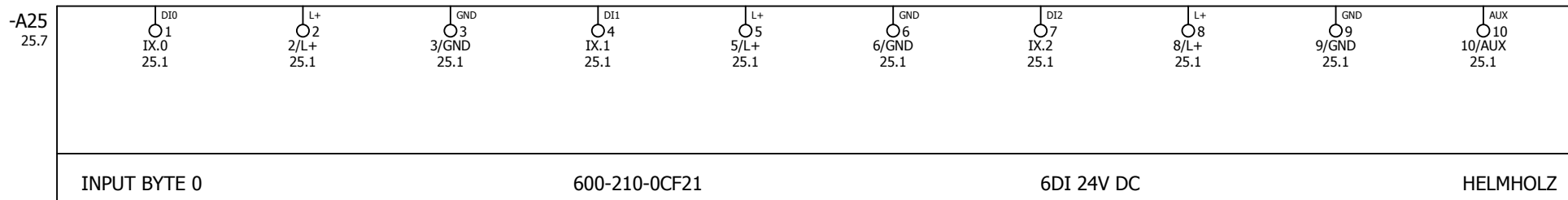
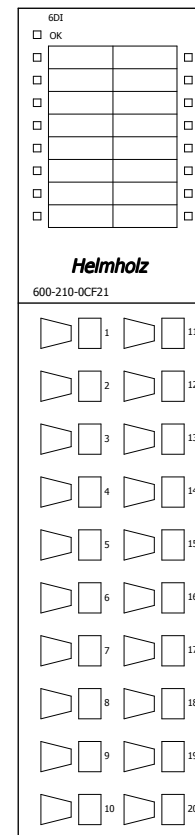
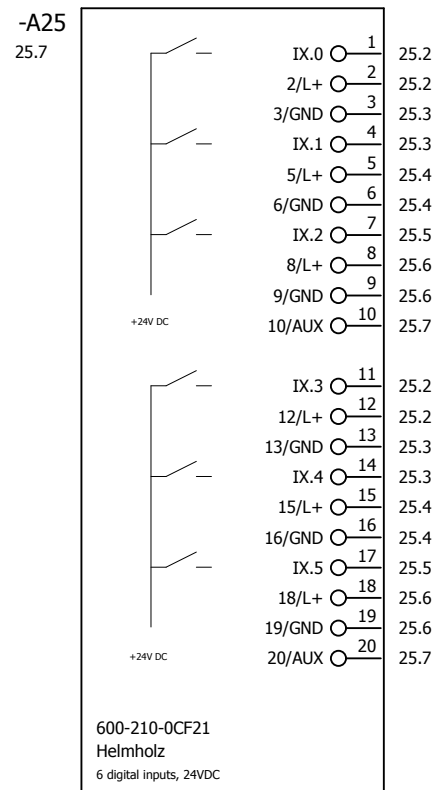
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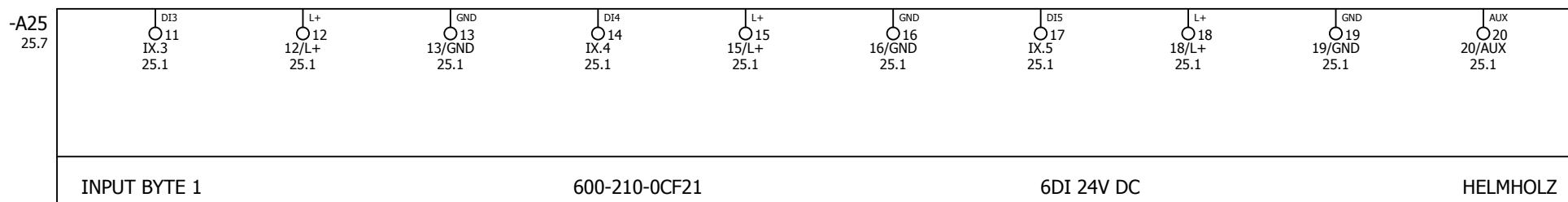
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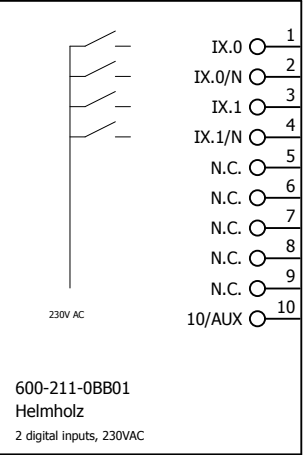
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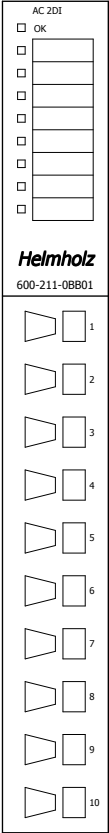


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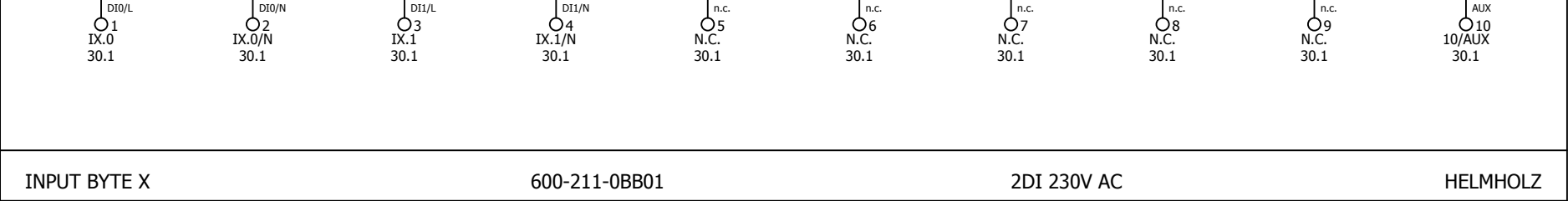


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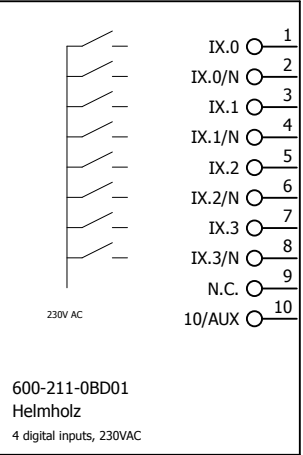
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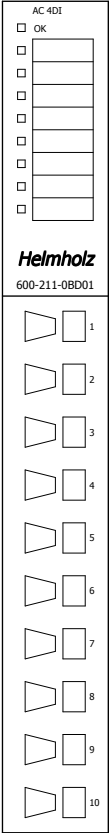
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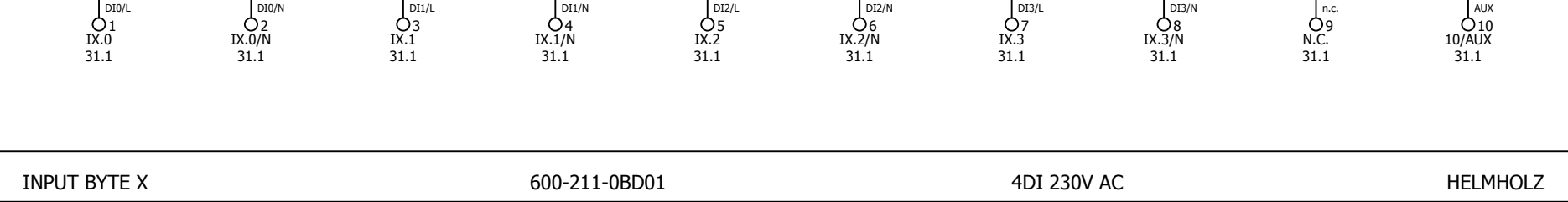


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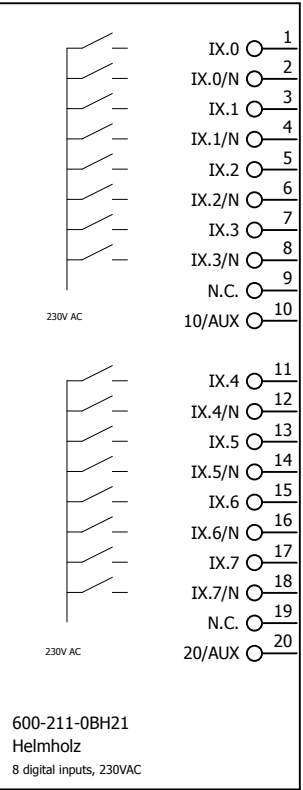


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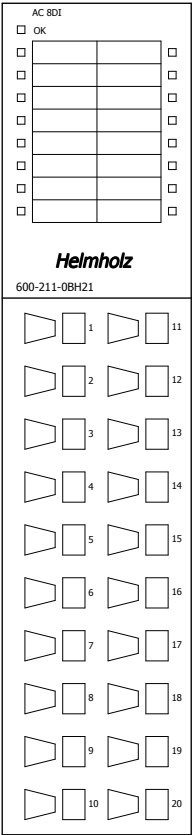
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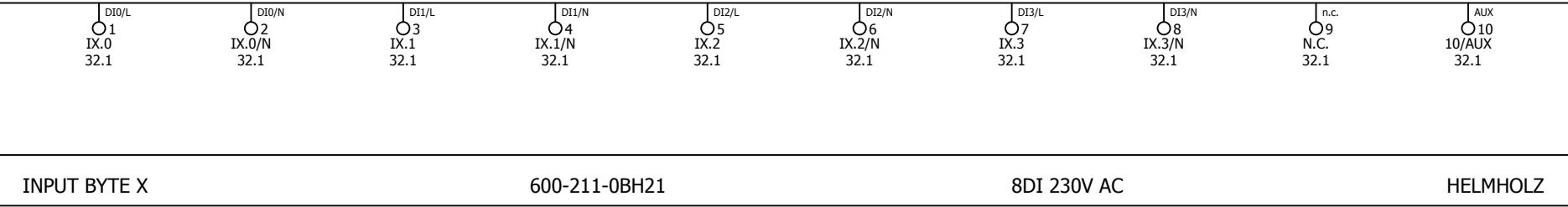


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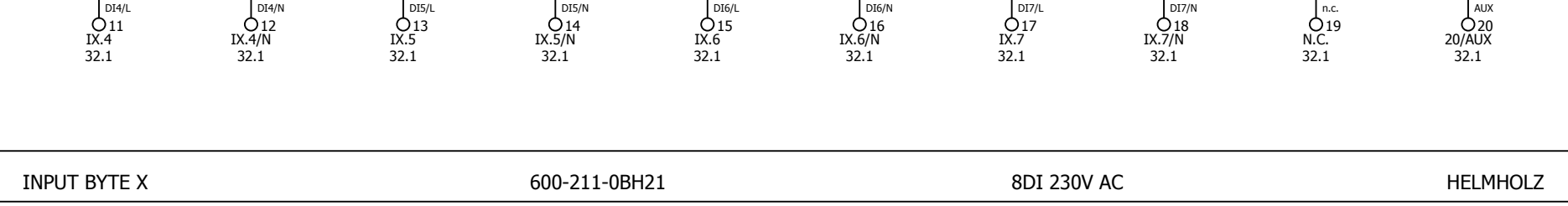


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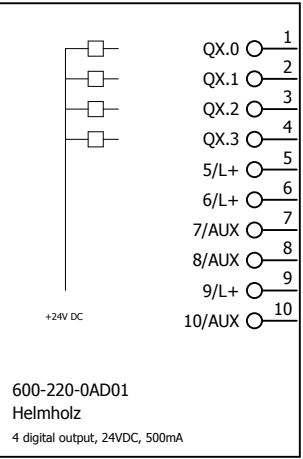
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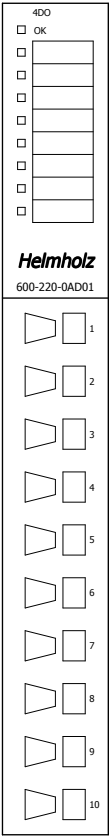


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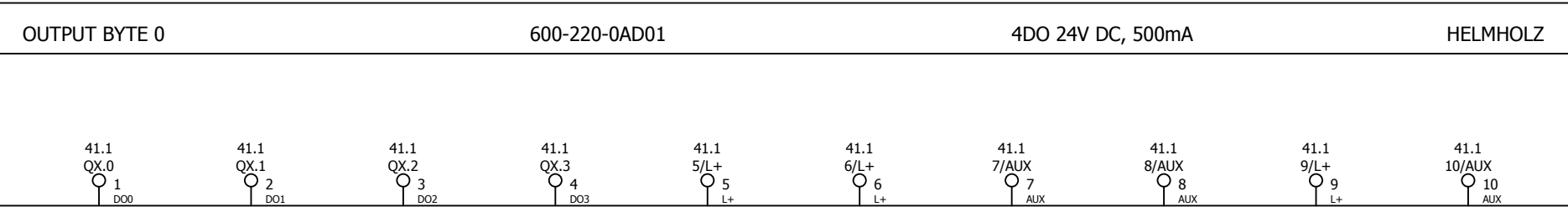


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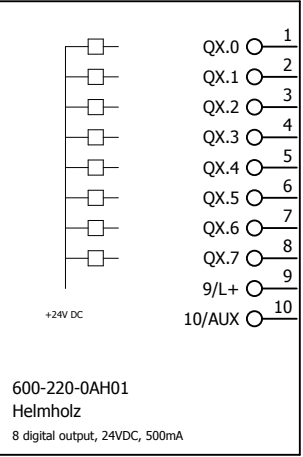
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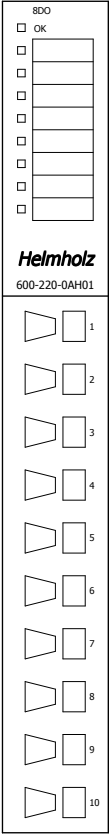


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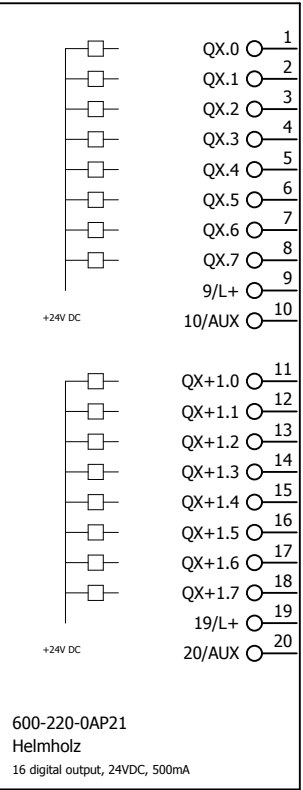
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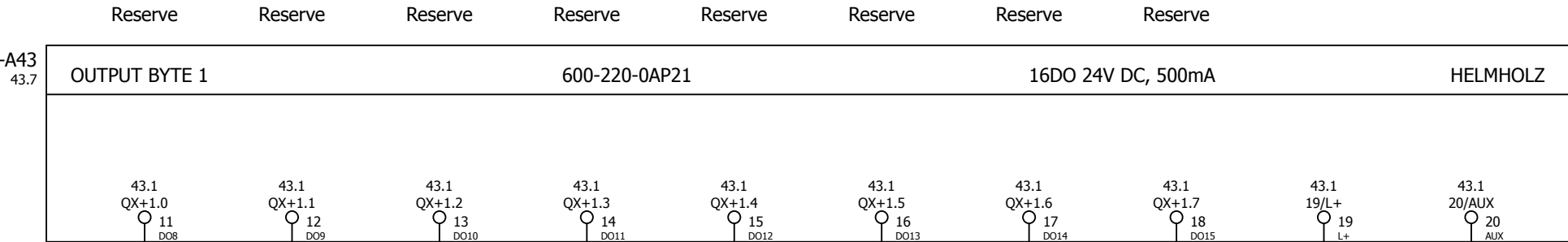
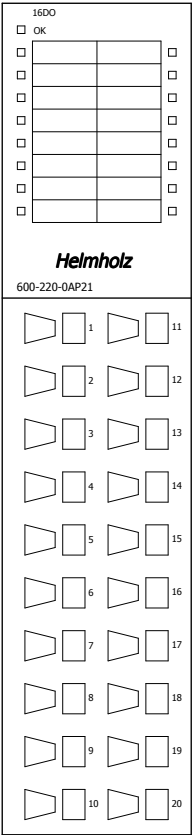
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42.1 QX.4 5 DO4	42.1 QX.5 6 DO5	42.1 QX.6 7 DO6	42.1 QX.7 8 DO7
42.1 9/L+ 9 L+	42.1 10/AUX 10 AUX		

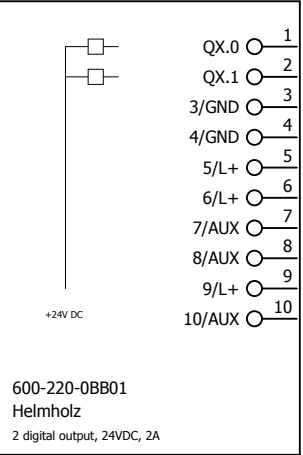
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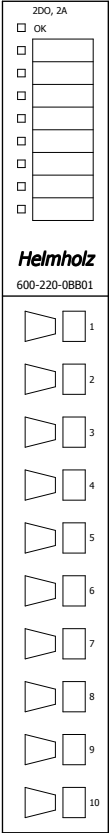


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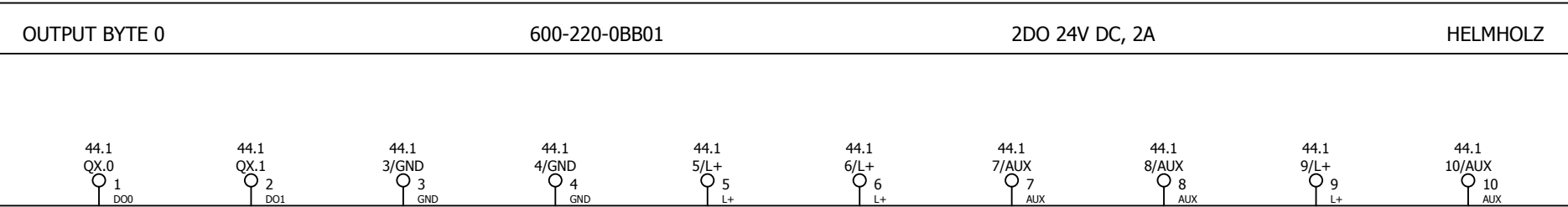
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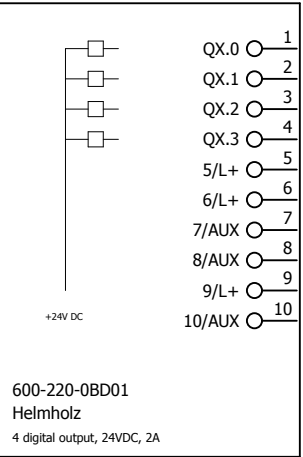
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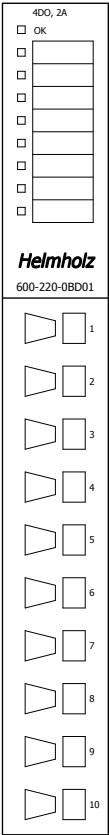


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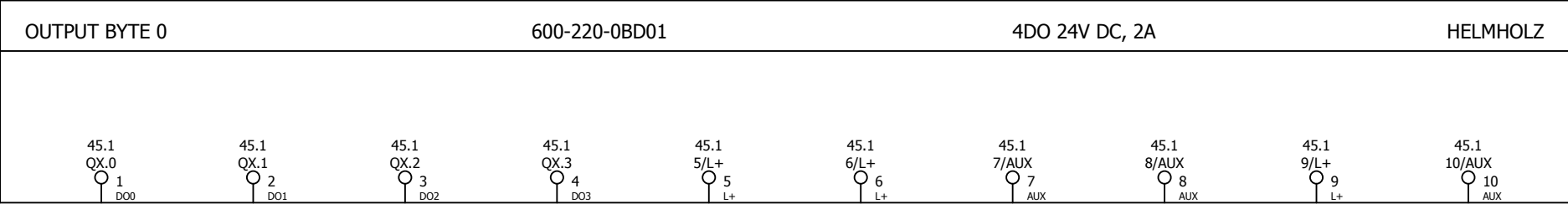


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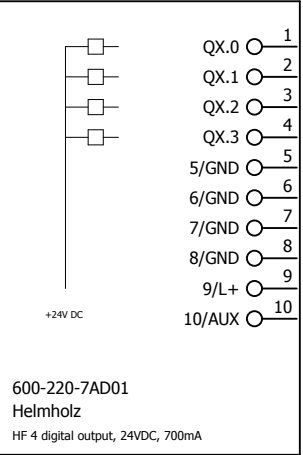
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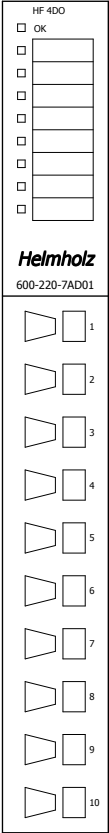


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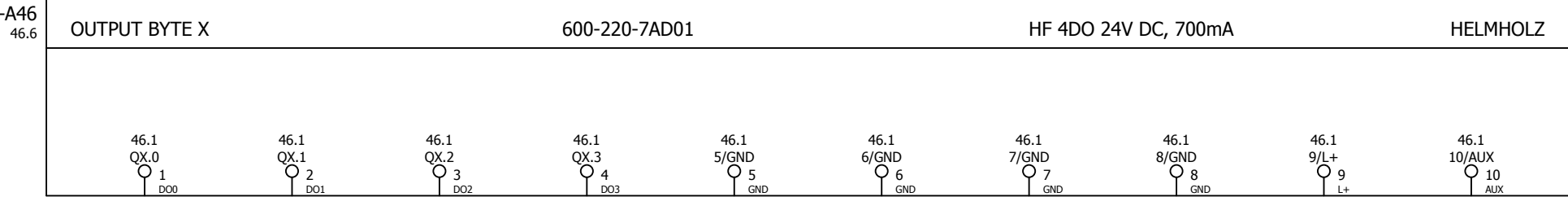


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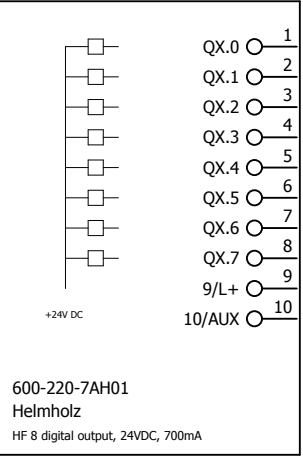
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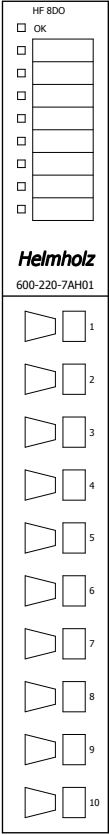


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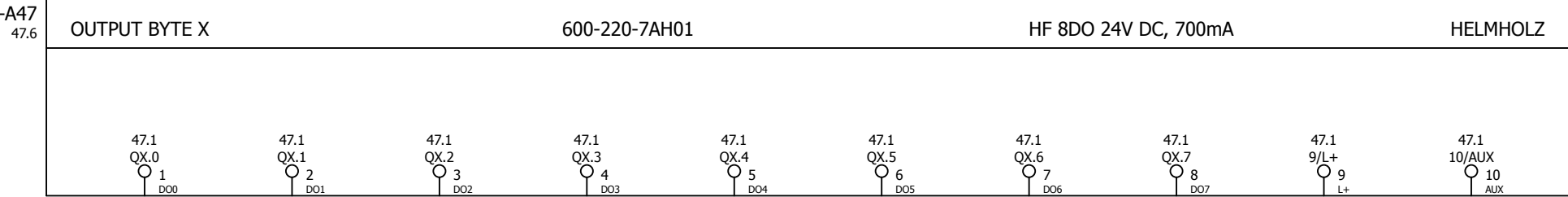


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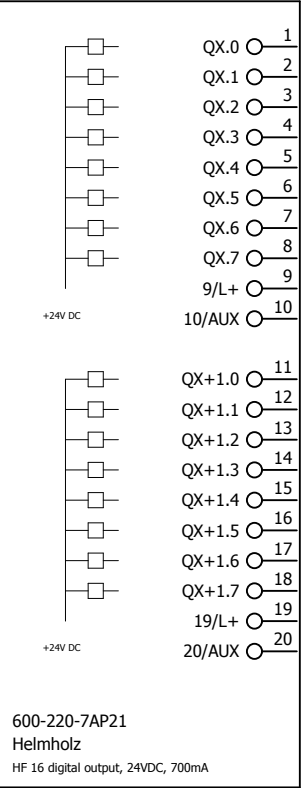
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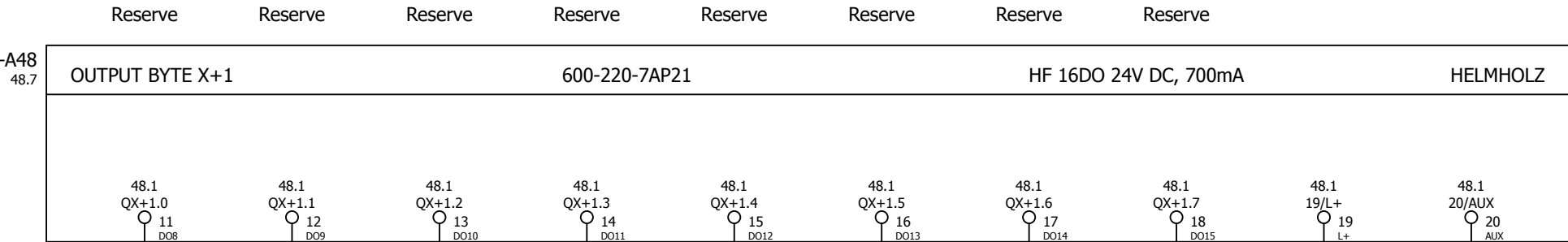
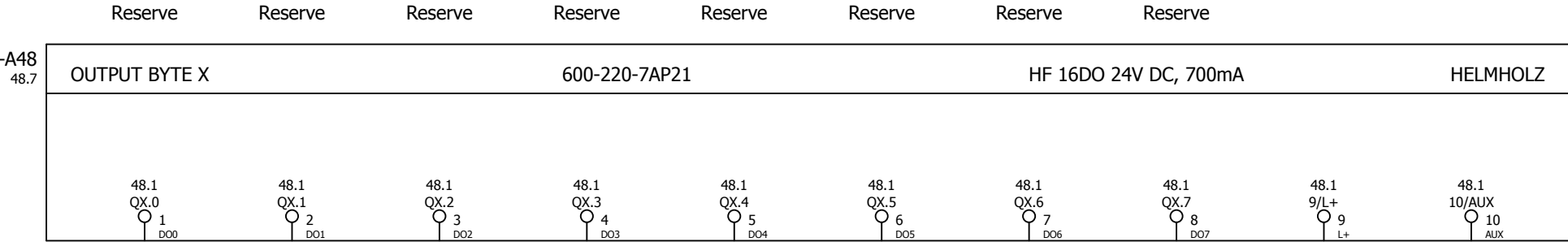
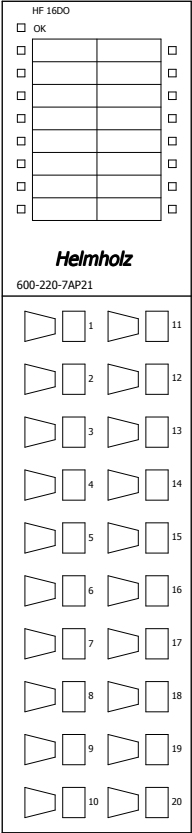
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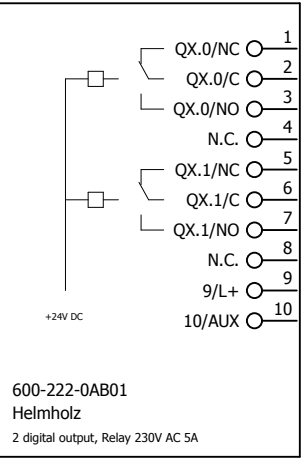
-A48



-A48

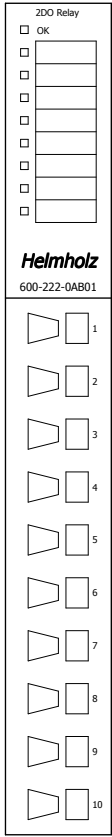


-A50



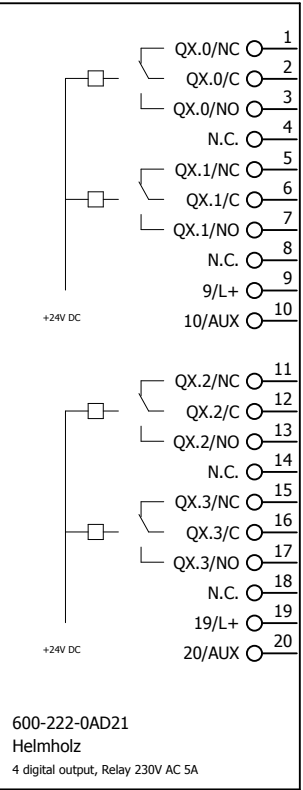
50.2 Reserve  
50.2 Reserve  
50.3 Reserve  
50.3 Reserve  
50.4 Reserve  
50.4 Reserve  
50.5 Reserve  
50.6 Reserve  
50.6 Reserve  
50.7 Reserve

-A50



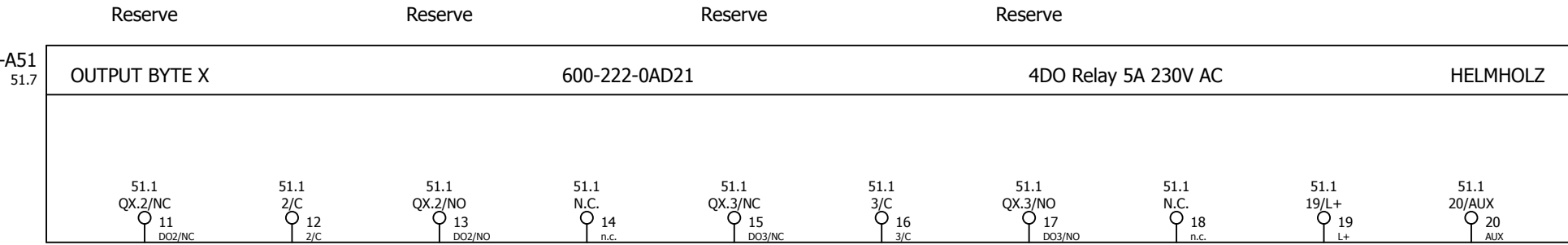
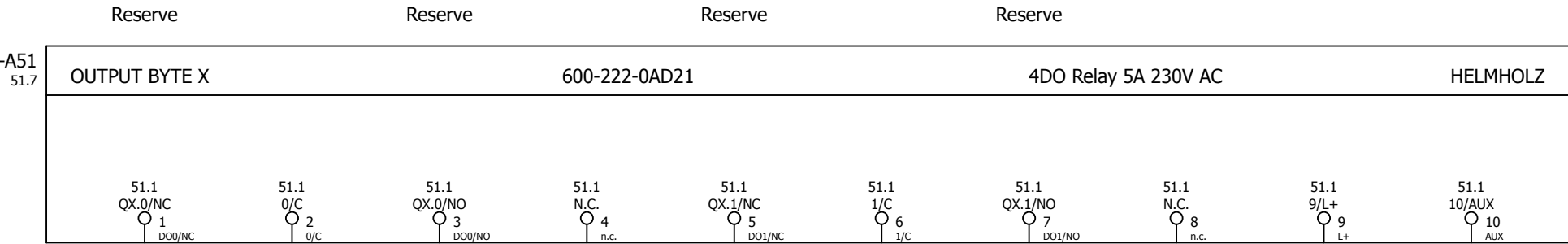
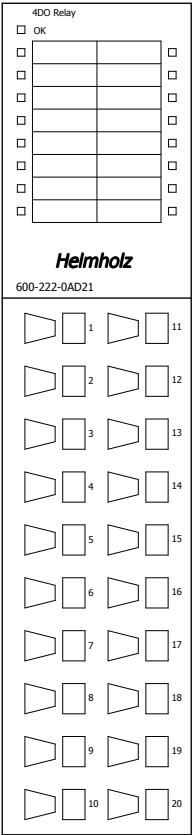
Reserve	Reserve	Reserve	Reserve
OUTPUT BYTE X	600-222-0AB01	2DO Relay 5A 230V AC	HELMHOLZ
50.1 QX.0/NC 1 DO0/NC	50.1 0/C 2 0/C	50.1 QX.0/NO 3 DO0/NO	50.1 N.C. 4 n.c.
50.1 QX.1/NC 5 DO1/NC	50.1 1/C 6 1/C	50.1 QX.1/NO 7 DO1/NO	50.1 N.C. 8 n.c.
50.1 9/L+ 9 L+	50.1 10/AUX 10 AUX		

-A51

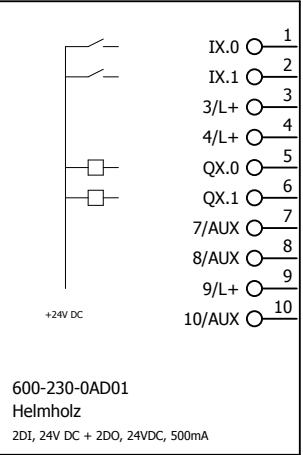


51.2	Reserve
51.2	
51.3	Reserve
51.3	
51.4	Reserve
51.4	
51.5	Reserve
51.6	
51.6	
51.7	
51.2	Reserve
51.2	
51.3	Reserve
51.3	
51.4	Reserve
51.4	
51.5	Reserve
51.6	
51.6	
51.7	

-A51

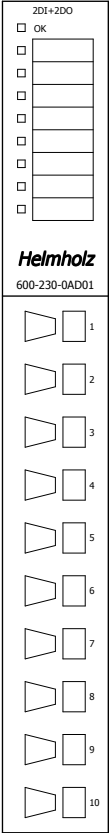


-A60

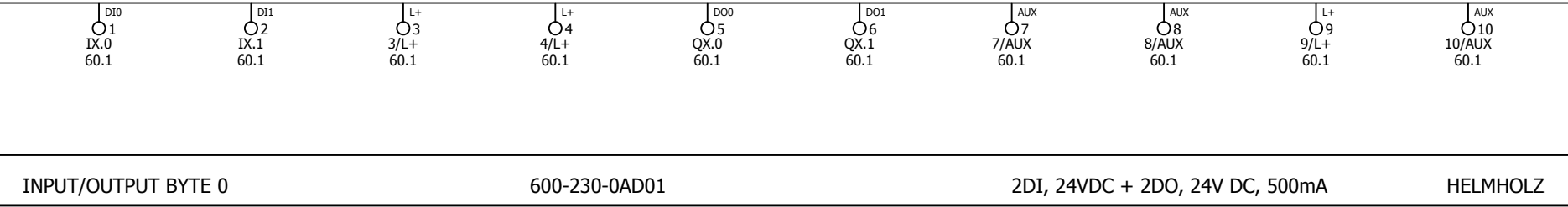


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-A60

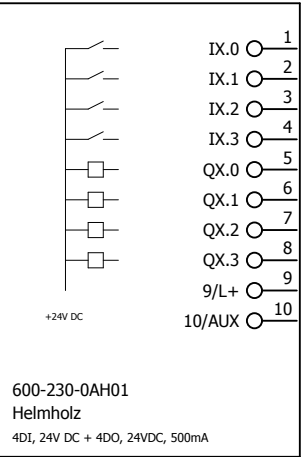


-A60  
60.6



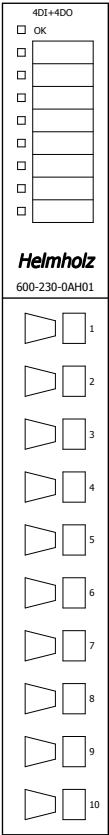
Reserve      Reserve                      Reserve      Reserve

-A61



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-A61



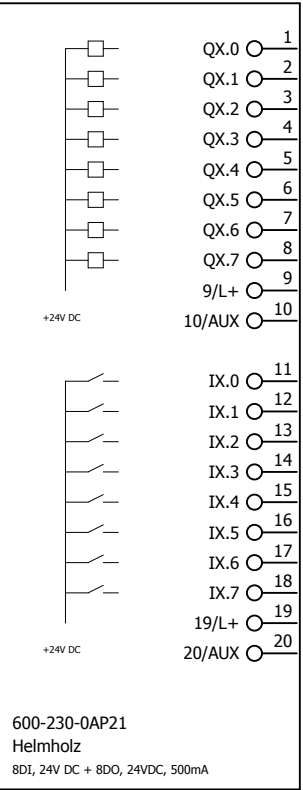
-A61  
61.6

DI0 1 IX.0 61.1	DI1 2 IX.1 61.1	DI2 3 IX.2 61.1	DI3 4 IX.3 61.1	DO0 5 QX.0 61.1	DO1 6 QX.1 61.1	DO2 7 QX.2 61.1	DO3 8 QX.3 61.1	L+ 9 9/L+ 61.1	AUX 10 10/AUX 61.1
INPUT/OUTPUT BYTE 0				600-230-0AH01		4DI, 24VDC + 4DO, 24V DC, 500mA		HELMHOLZ	

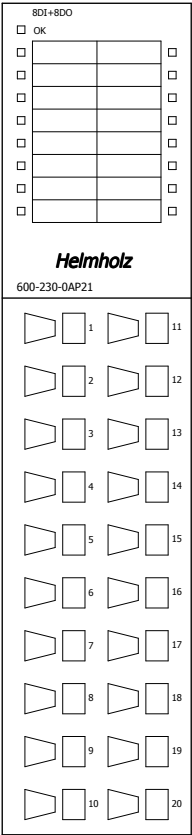
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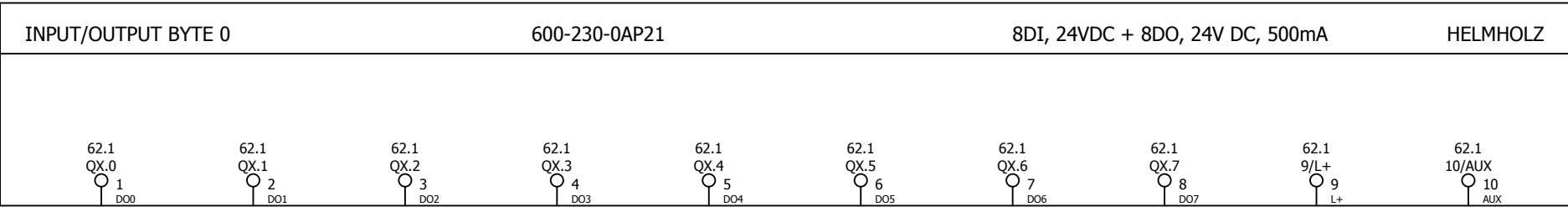
-A62



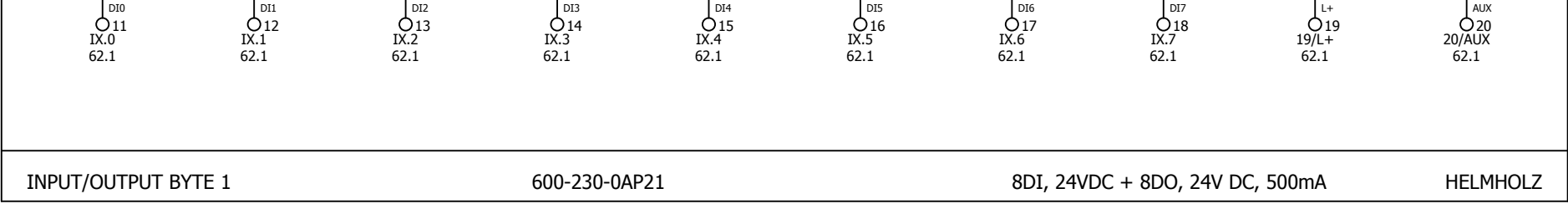
-A62



-A62  
62.7



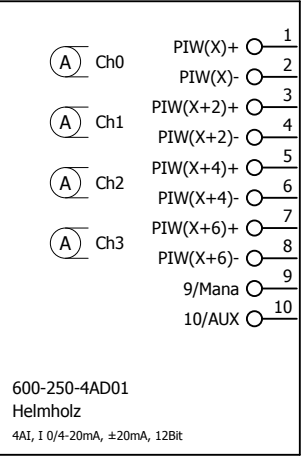
-A62  
62.7



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-A71



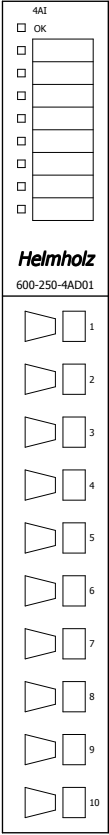
600-250-4AD01

Helmholz

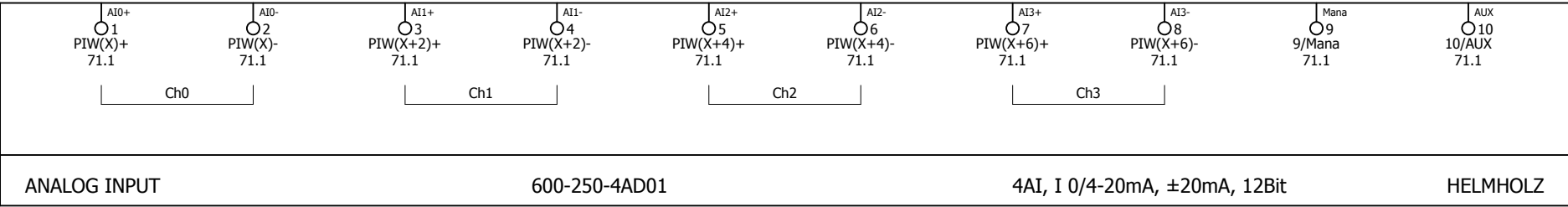
4AI, I 0/4-20mA, ±20mA, 12Bit

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-A71  
71.6



ANALOG INPUT

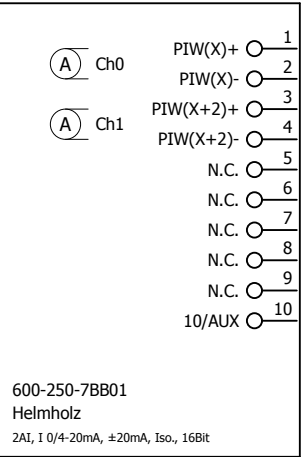
600-250-4AD01

4AI, I 0/4-20mA, ±20mA, 12Bit

HELMHOLZ

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-A72



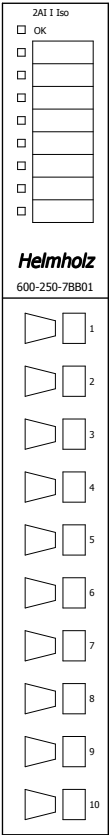
600-250-7BB01

Helmholz

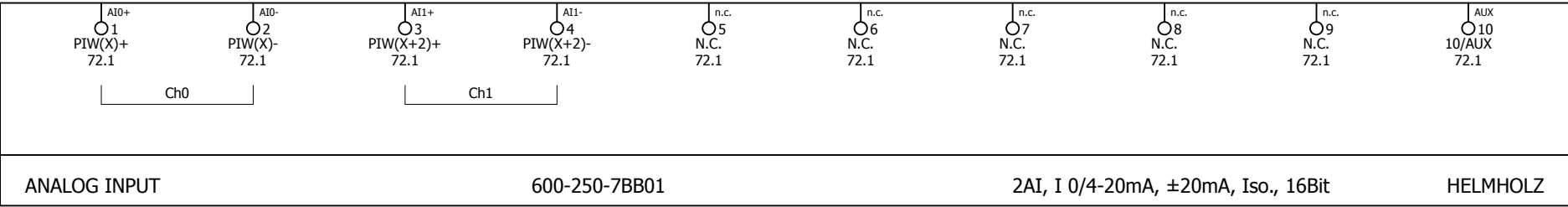
2AI, I 0/4-20mA, ±20mA, Iso., 16Bit

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-A72

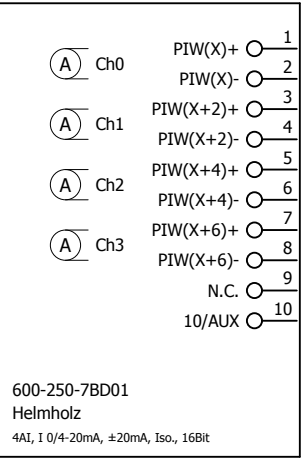


-A72  
72.6



Reserve      Reserve      Reserve      Reserve

-A73



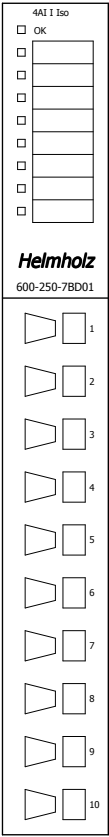
600-250-7BD01

Helmholz

4AI, I 0/4-20mA, ±20mA, Iso., 16Bit

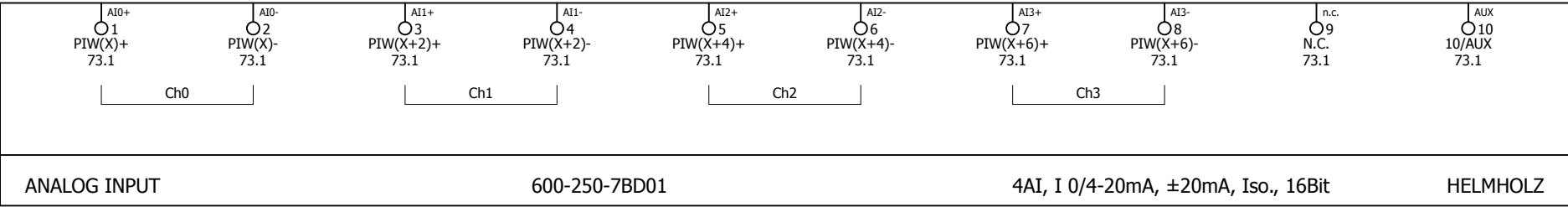
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ANALOG INPUT

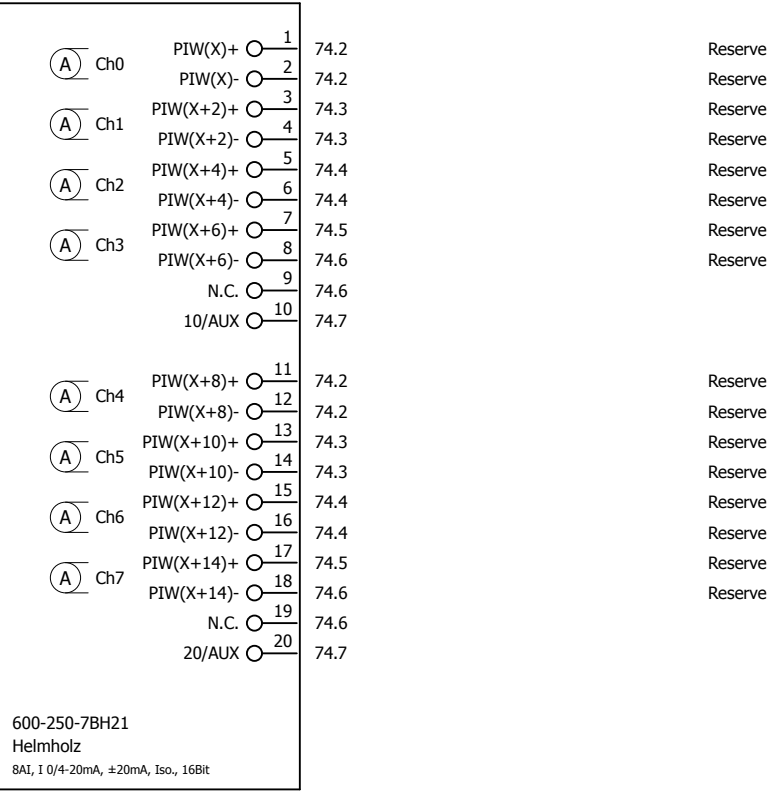
600-250-7BD01

4AI, I 0/4-20mA, ±20mA, Iso., 16Bit

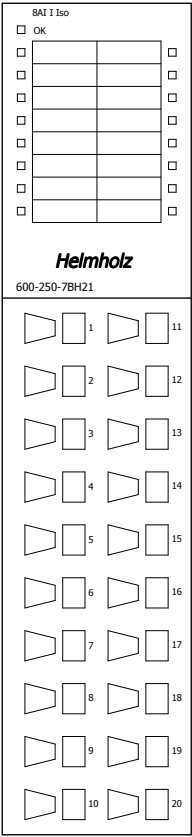
HELMHOLZ

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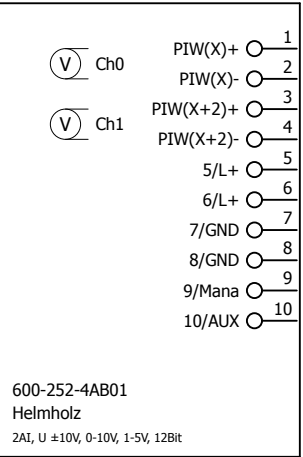
-A74



-A74

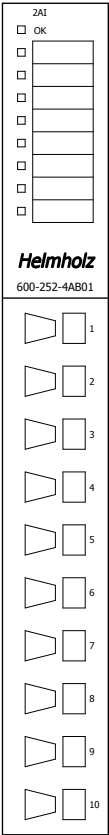


-A80

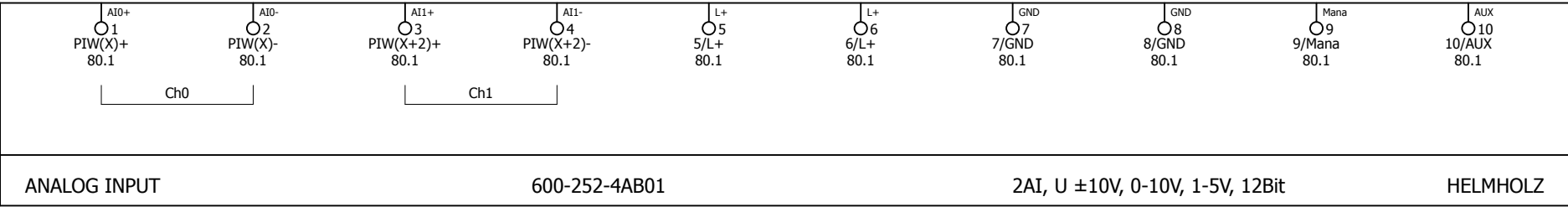


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-A80

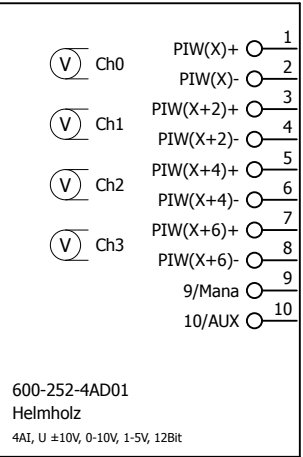


-A80  
80.6



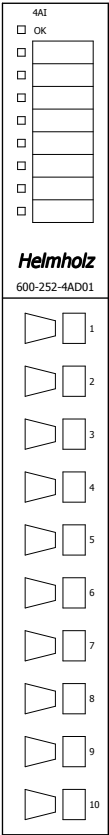
Reserve      Reserve      Reserve      Reserve

-A81

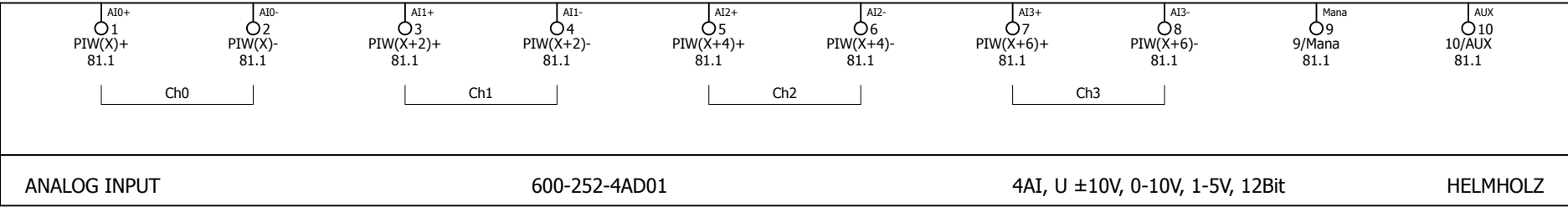


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-A81



-A81  
81.6

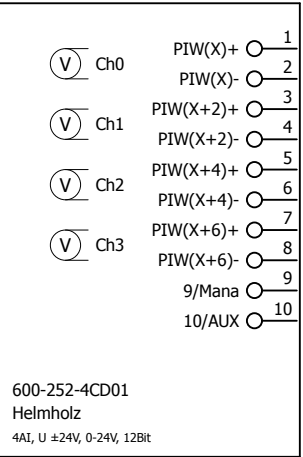


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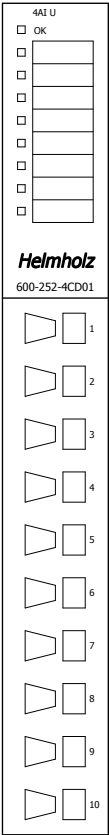


-A83

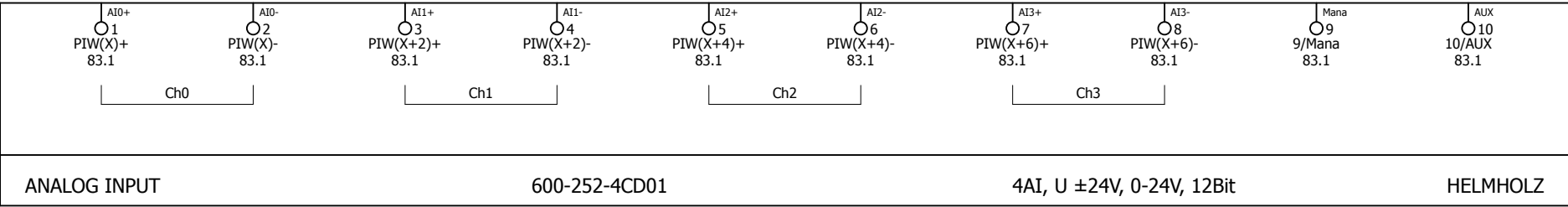


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-A83

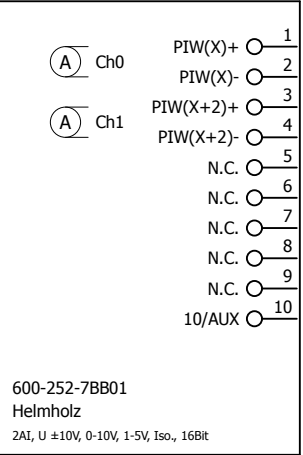


-A83  
83.6



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-A84



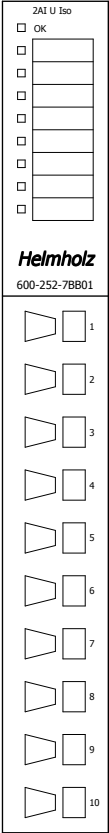
600-252-7BB01

Helmholz

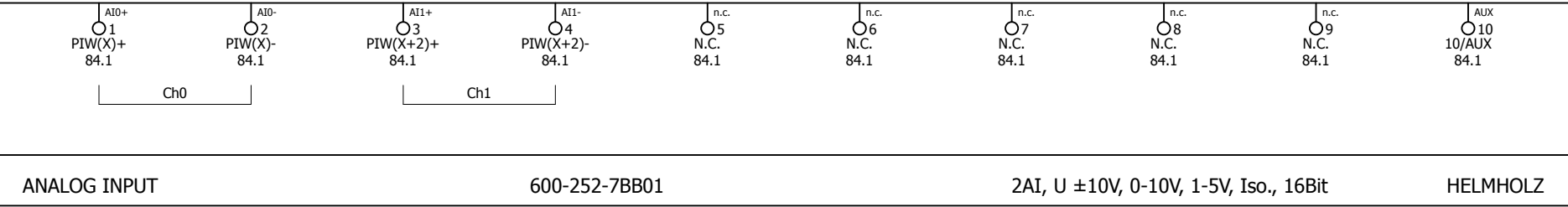
2AI, U ±10V, 0-10V, 1-5V, Iso., 16Bit

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-A84

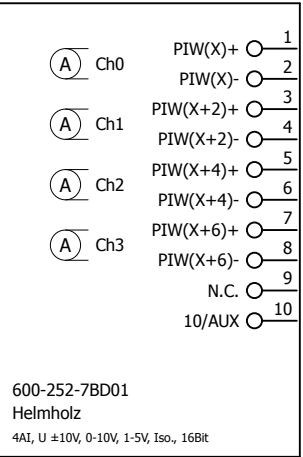


-A84  
84.6



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-A85



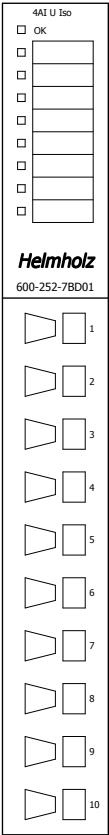
600-252-7BD01

Helmholz

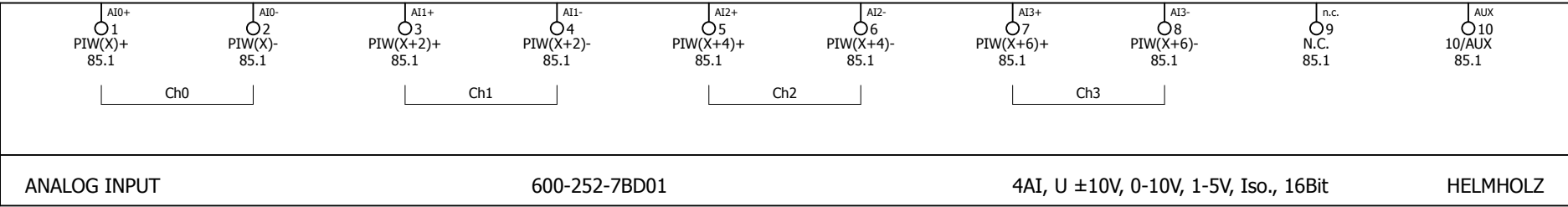
4AI, U ±10V, 0-10V, 1-5V, Iso., 16Bit

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-A85  
85.6



ANALOG INPUT

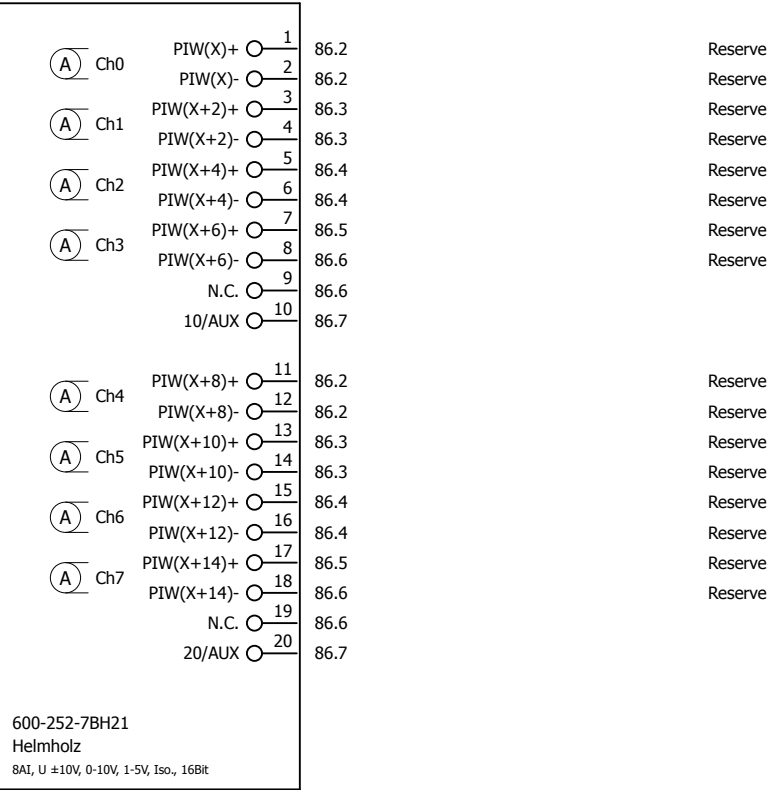
600-252-7BD01

4AI, U ±10V, 0-10V, 1-5V, Iso., 16Bit

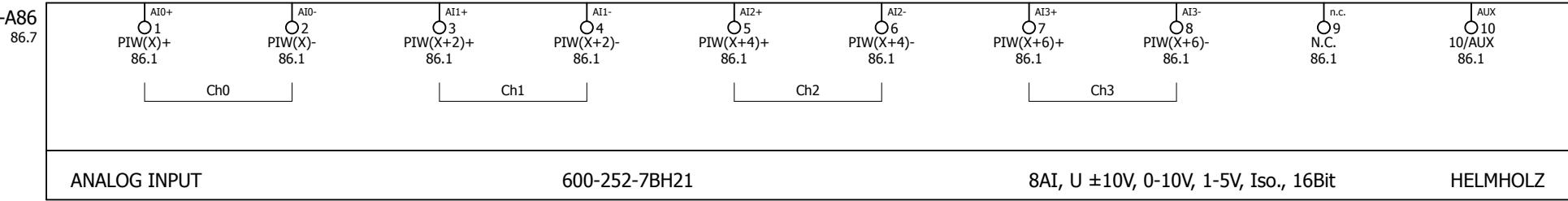
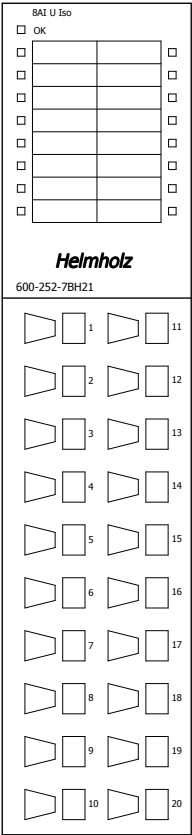
HELMHOLZ

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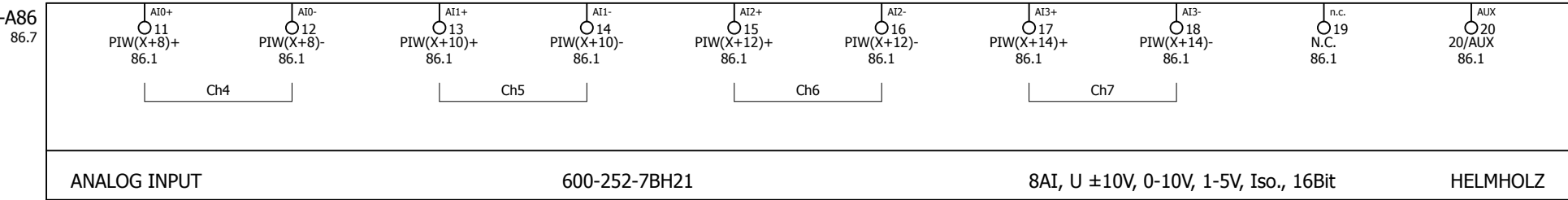
-A86



-A86



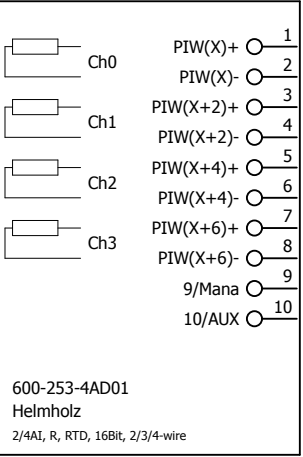
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-A91



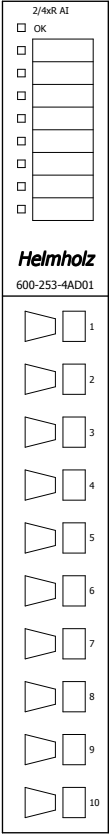
600-253-4AD01

Helmholz

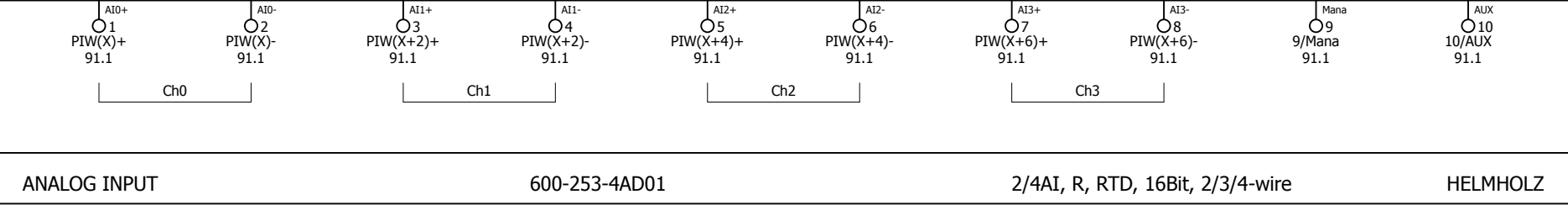
2/4AI, R, RTD, 16Bit, 2/3/4-wire

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91.6



ANALOG INPUT

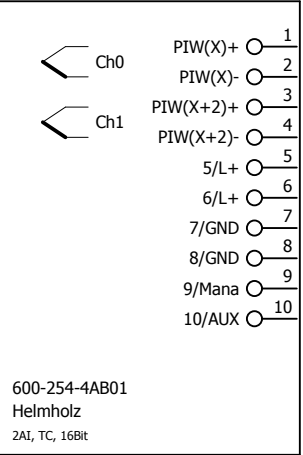
600-253-4AD01

2/4AI, R, RTD, 16Bit, 2/3/4-wire

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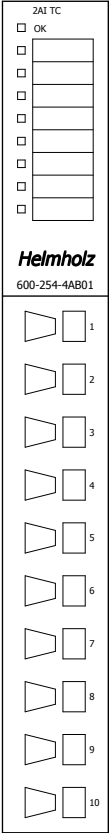
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-A100

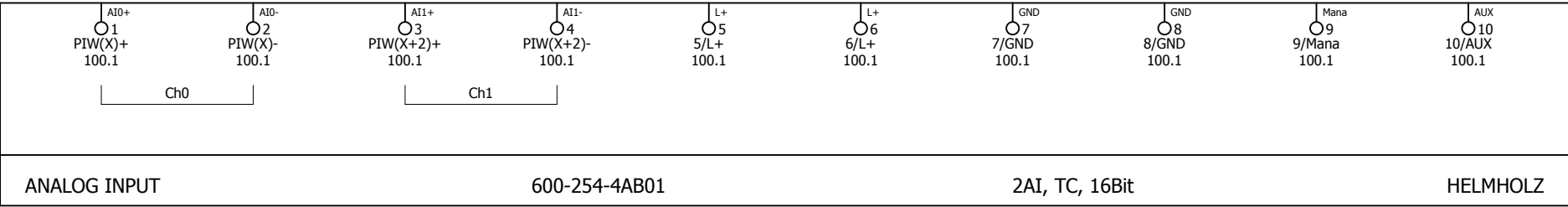


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-A100



-A100  
100.6



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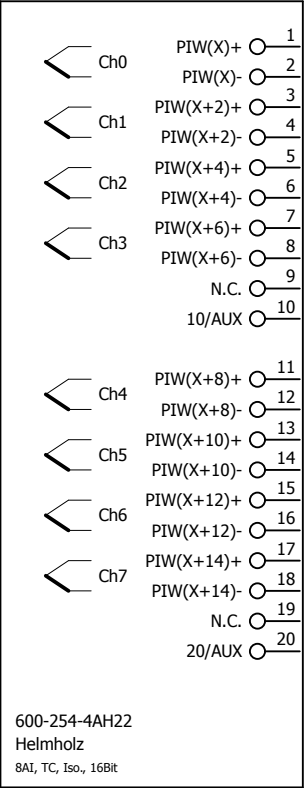








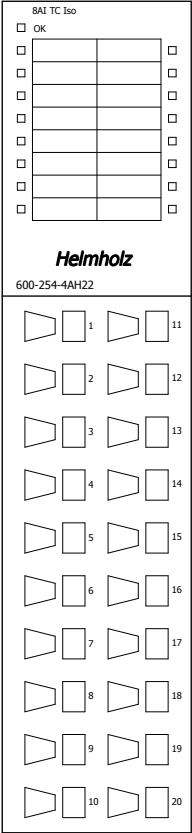
-A104



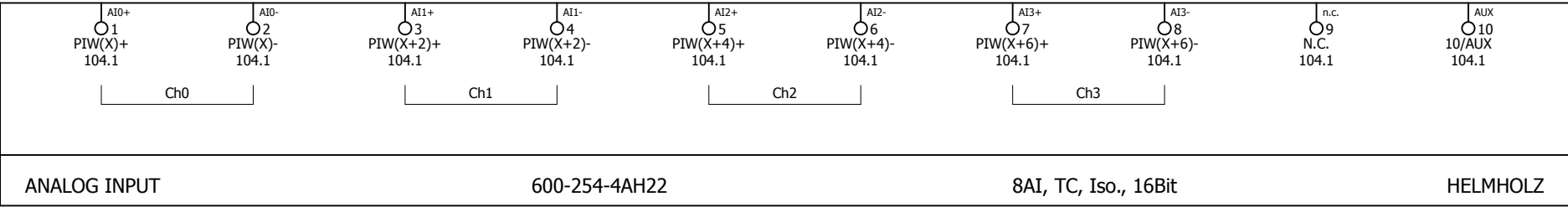
104.2  
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-A104

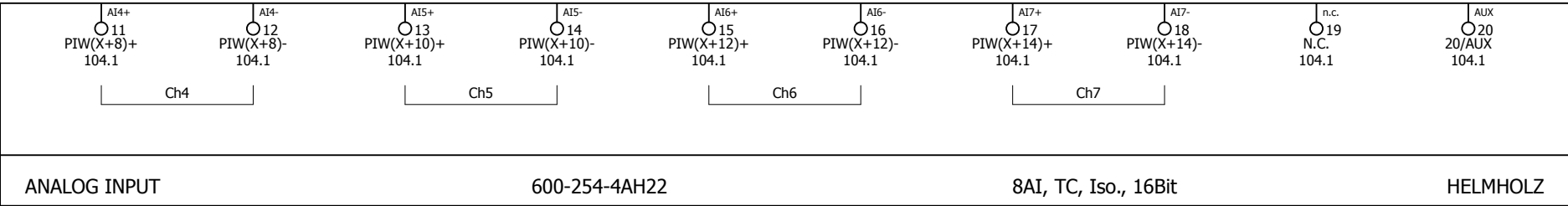


-A104  
104.7



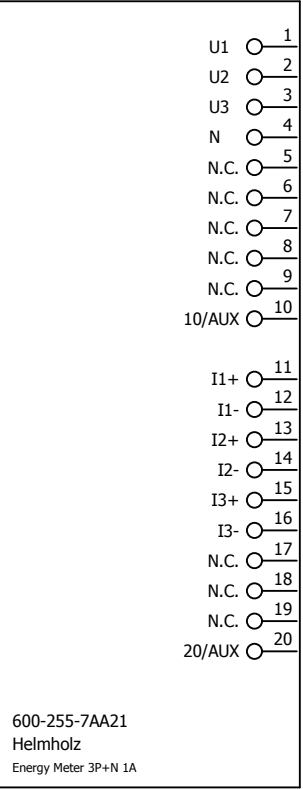
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-A104  
104.7



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-A110



600-255-7AA21

Helmholz

Energy Meter 3P+N 1A

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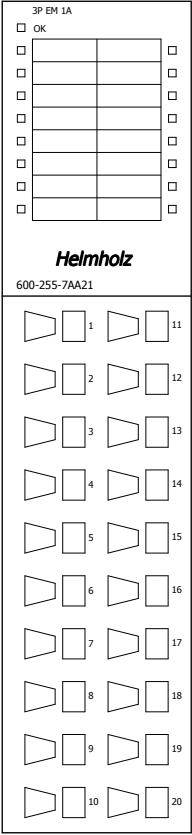
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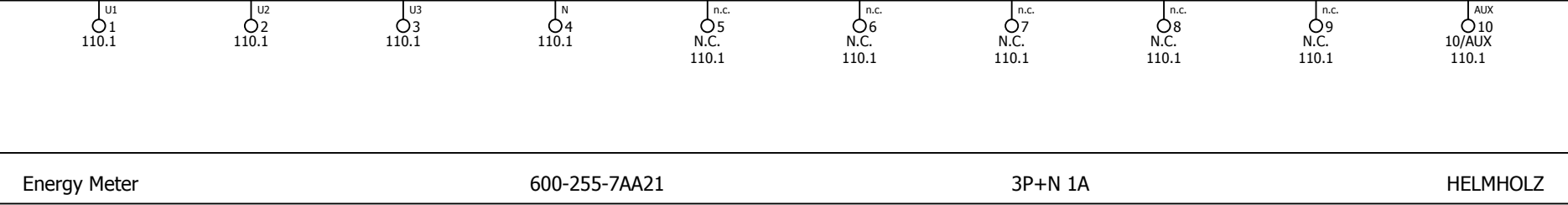
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-A110

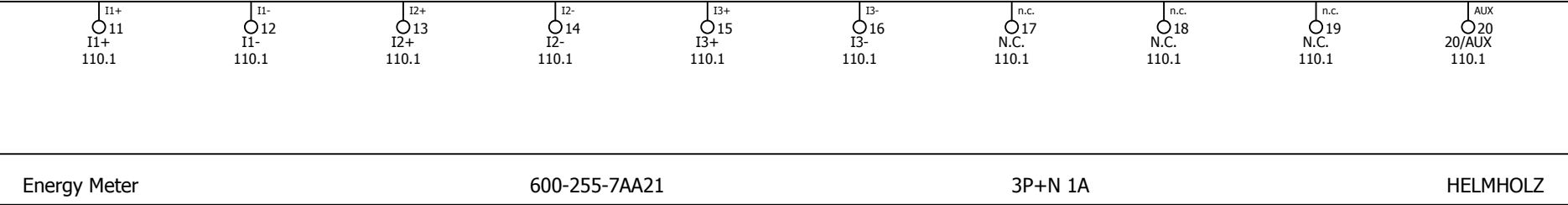


-A110  
110.7



Reserve

-A110  
110.7

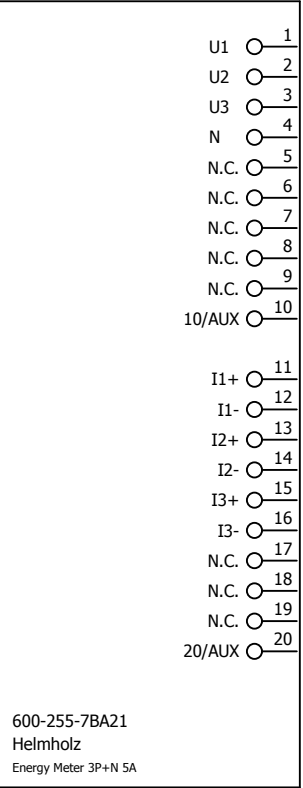


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-A111



600-255-7BA21

Helmholz

Energy Meter 3P+N 5A

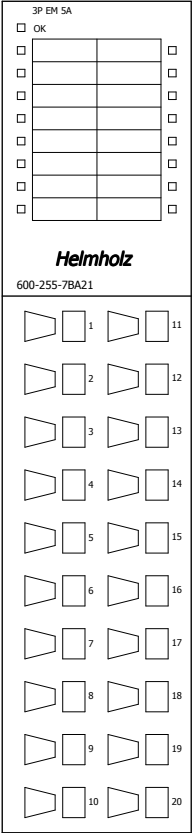
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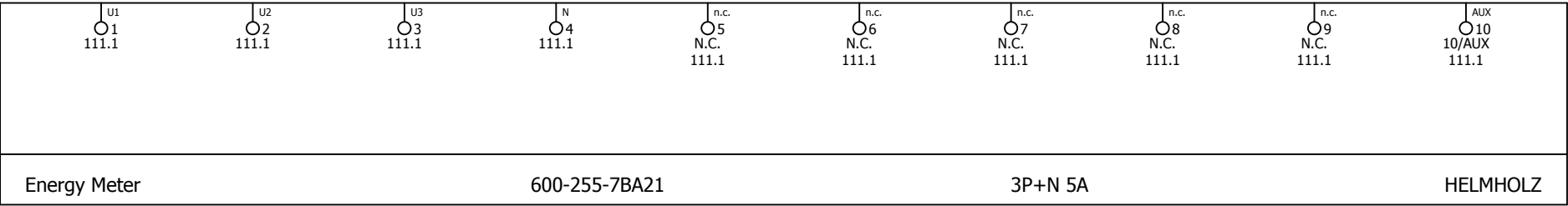
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-A111

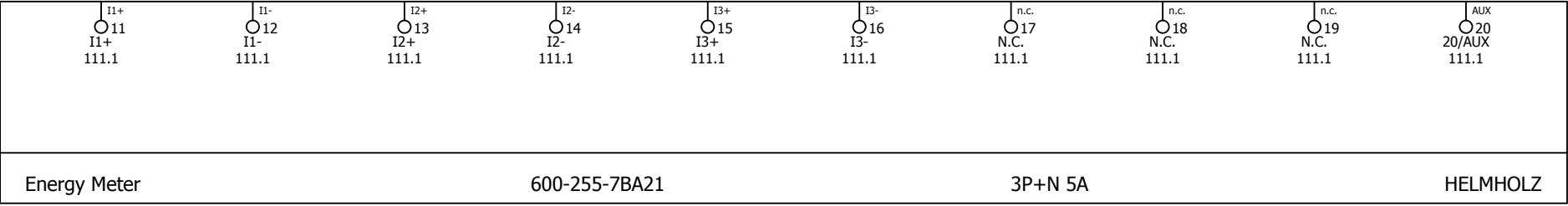


-A111  
111.7



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111.7

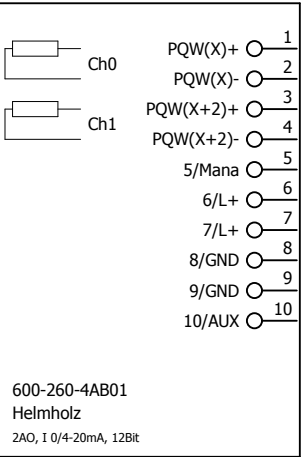


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-A120



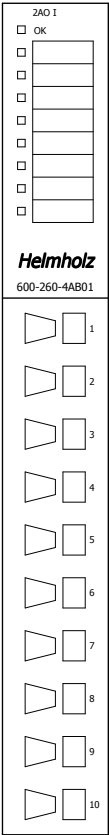
600-260-4AB01

Helmholz

2AO, I 0/4-20mA, 12Bit

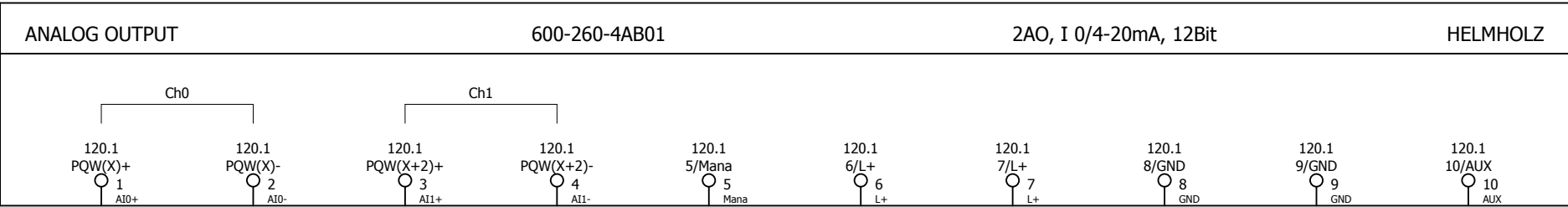
Reserve  
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-A120

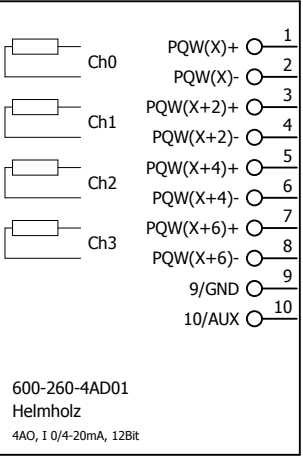


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-A120  
120.6



-A121



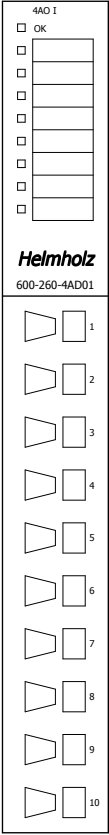
600-260-4AD01

Helmholz

4AO, I 0/4-20mA, 12Bit

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-A121

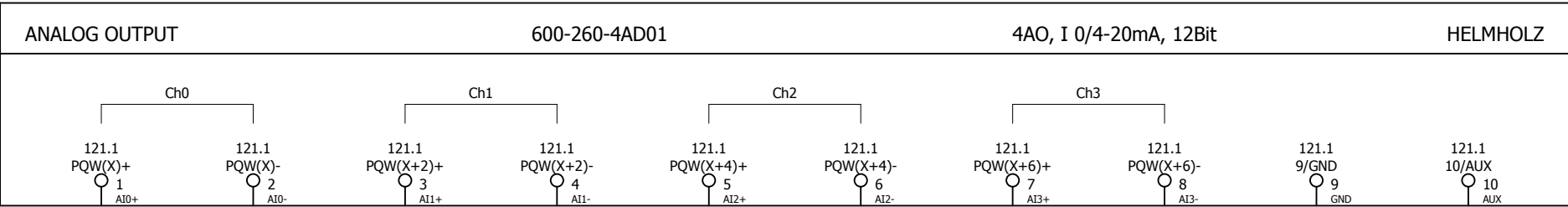


**Helmholz**

600-260-4AD01

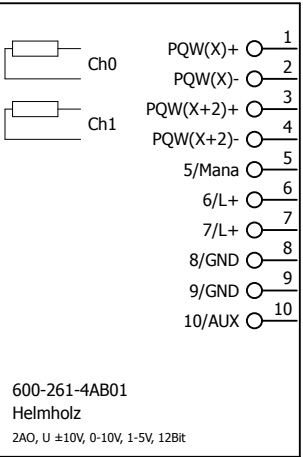
Reserve   Reserve   Reserve   Reserve   Reserve   Reserve   Reserve   Reserve

-A121  
121.6





-A130



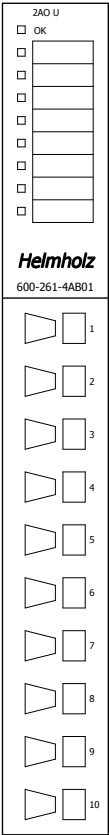
600-261-4AB01

Helmholz

2AO, U ±10V, 0-10V, 1-5V, 12Bit

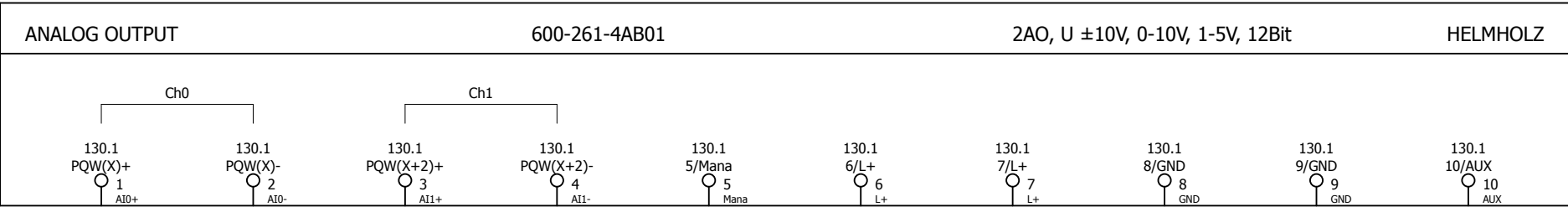
Reserve  
Reserve  
Reserve  
Reserve

-A130

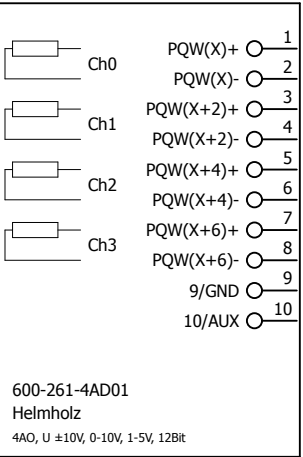


Reserve Reserve Reserve Reserve

-A130  
130.6



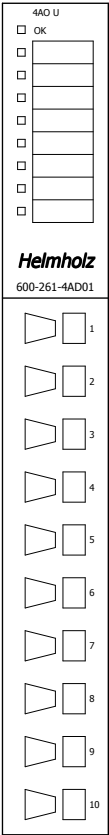
-A131



131.2  
131.2  
131.3  
131.3  
131.4  
131.4  
131.5  
131.6  
131.6  
131.7

Reserve  
Reserve  
Reserve  
Reserve  
Reserve  
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Reserve  
Reserve

-A131



Reserve

Reserve

Reserve

Reserve

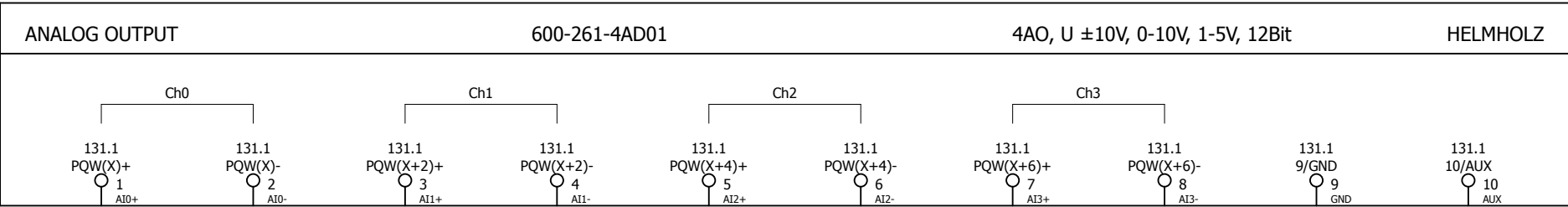
Reserve

Reserve

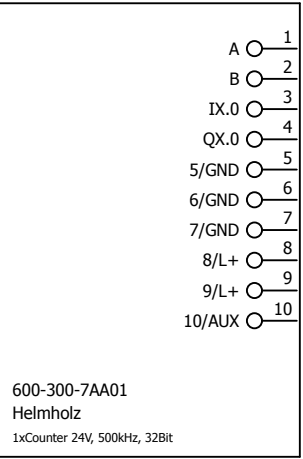
Reserve

Reserve

-A131  
131.6

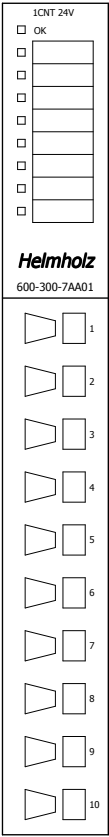


-A140

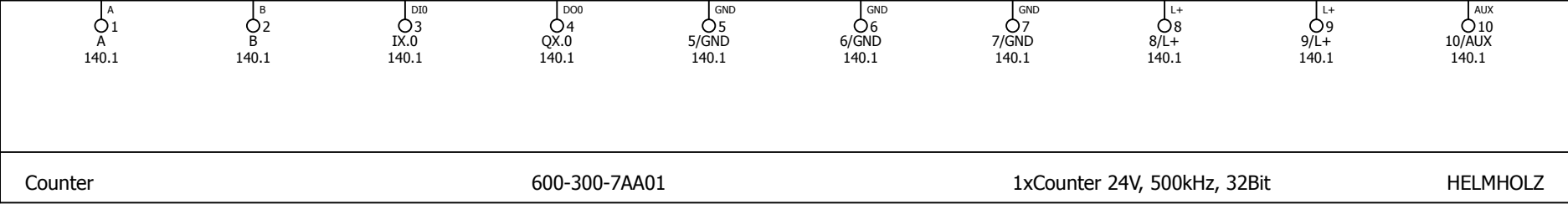


Reserve  
Reserve  
Reserve  
Reserve

-A140

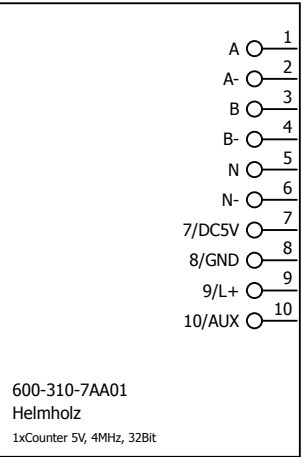


-A140  
140.6



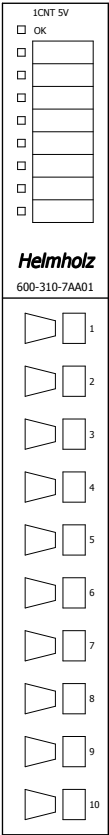
Reserve      Reserve      Reserve      Reserve

-A150

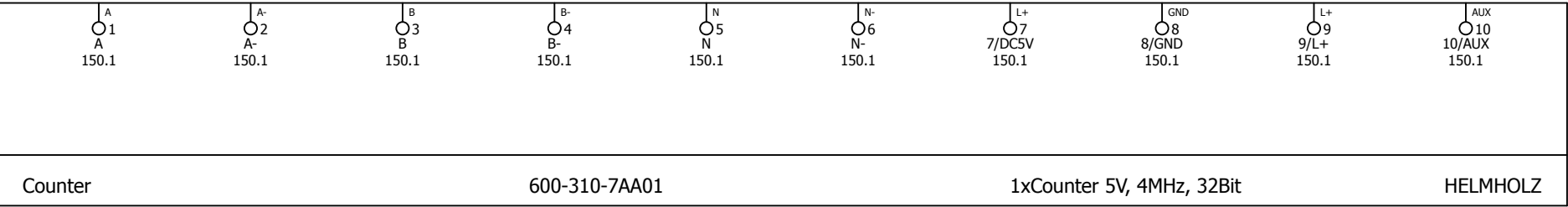


Reserve  
Reserve  
Reserve  
Reserve  
Reserve  
Reserve

-A150

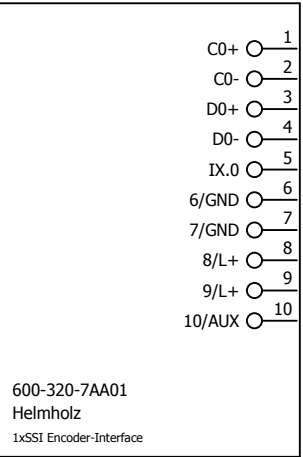


-A150  
150.6



Reserve      Reserve      Reserve      Reserve      Reserve      Reserve

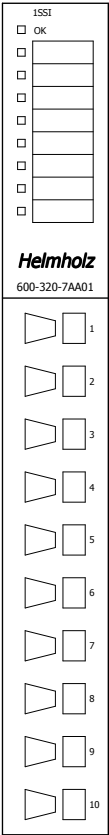
-A160



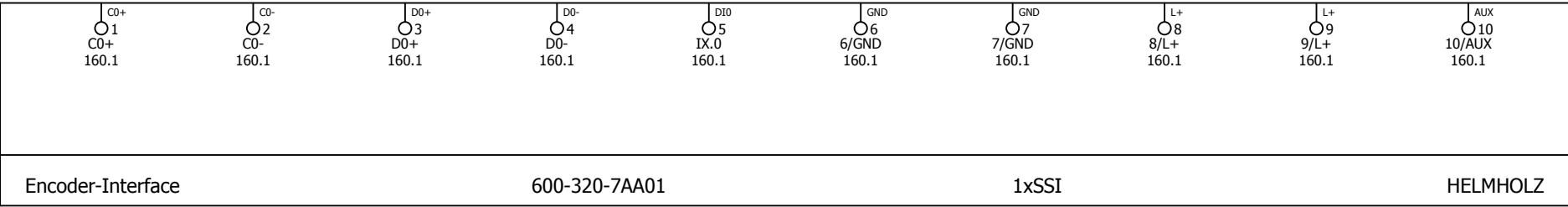
Reserve

Reserve

-A160



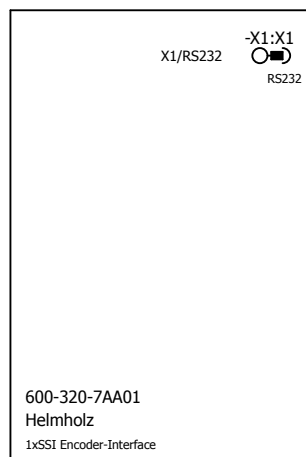
-A160  
160.6



Reserve

Reserve

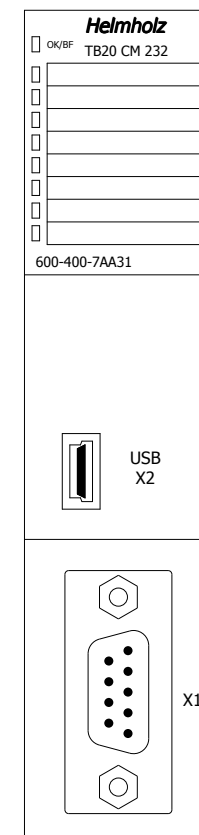
-A170



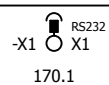
170.2

Reserve

-A170



-A170  
170.6




## Serial Interface

600-400-7AA31

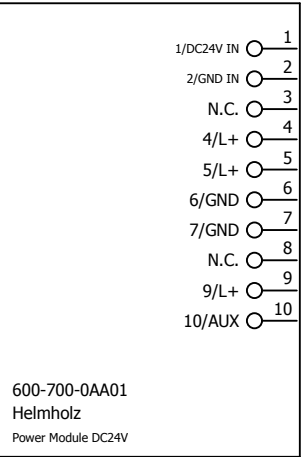
RS232

HELMHOLZ

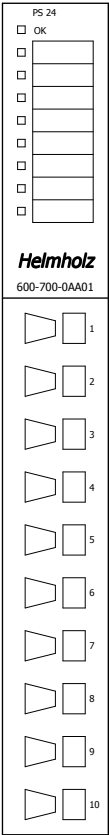
Reserve

			Gepr.		Systeme Helmholz GmbH Hannberger Weg 2 91091 Großenseebach Ph. +49 9135 7380-0, Fax +49 9135 7380-110 info@helmholz.de, www.helmholz.de		 <b>Helmholz</b> COMPATIBLE WITH YOU	HEL.600-400-7AA31					+
			Bearb.	AM									
			Datum	28. 10. 2015									
Änderung	Datum	Name	Norm		Urspr.	Ers.f.	Ers.d.			Helmholz TB20 Makros		Bl. 170 von 210 Bl.	

-A180



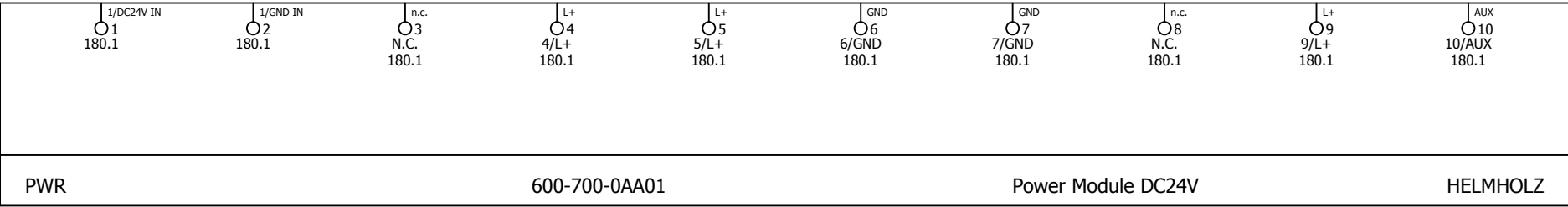
-A180



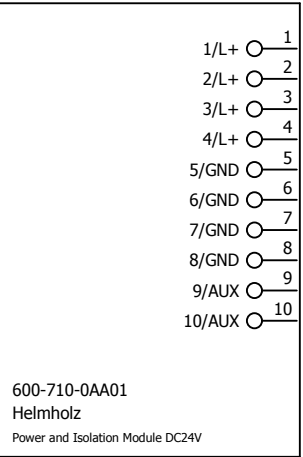
Helmholz

600-700-0AA01

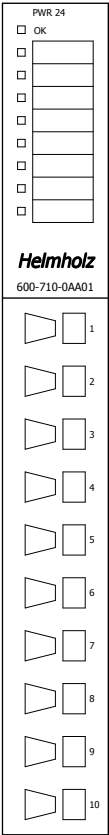
-A180  
180.6



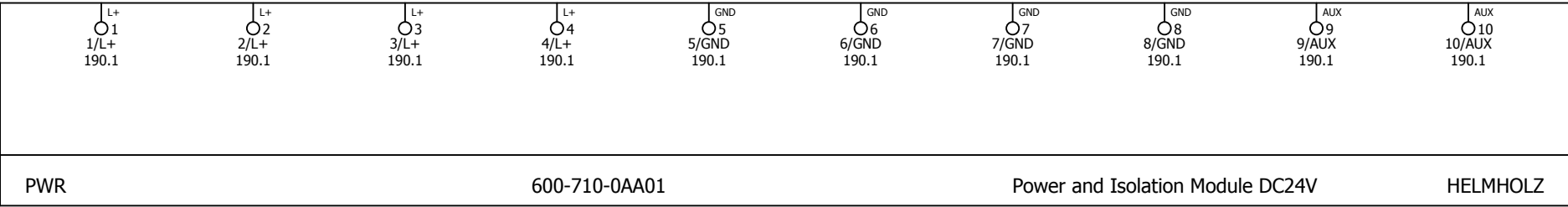
-A190



-A190

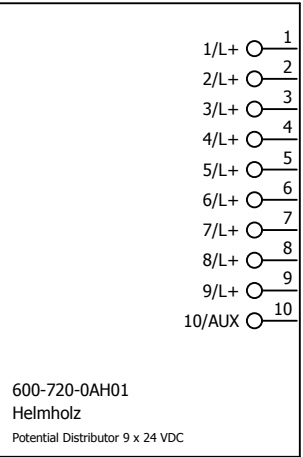


-A190  
190.6

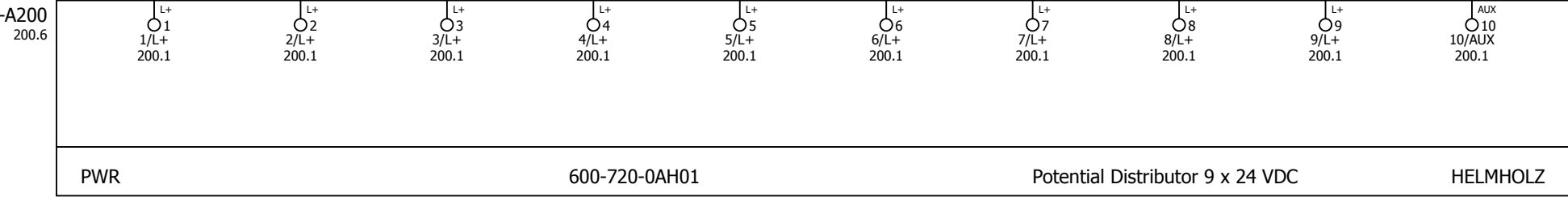
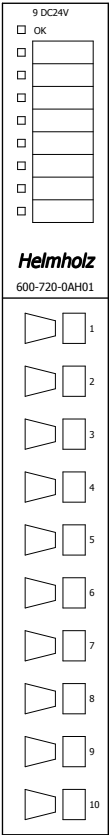




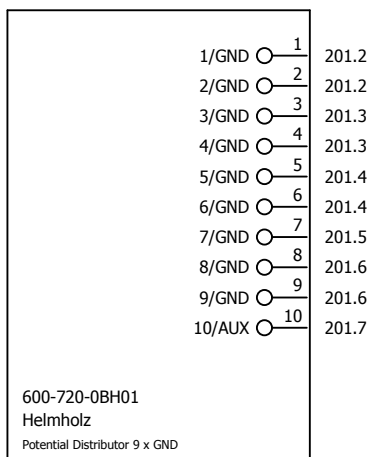
-A200



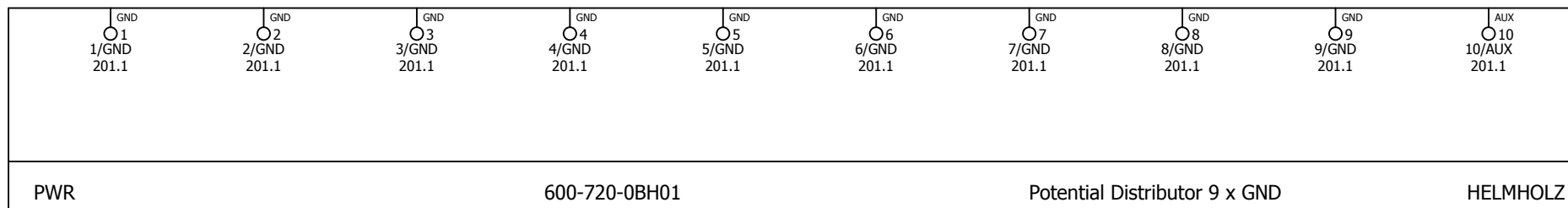
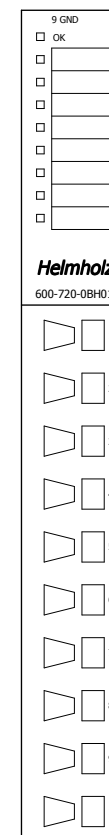
-A200



-A201

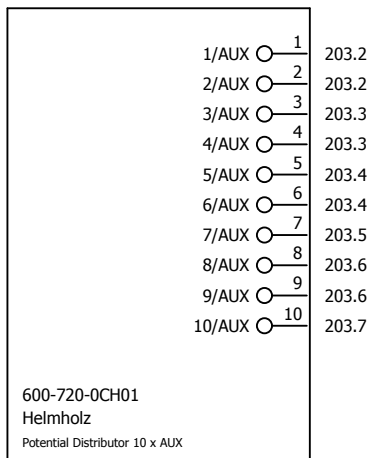


-A201

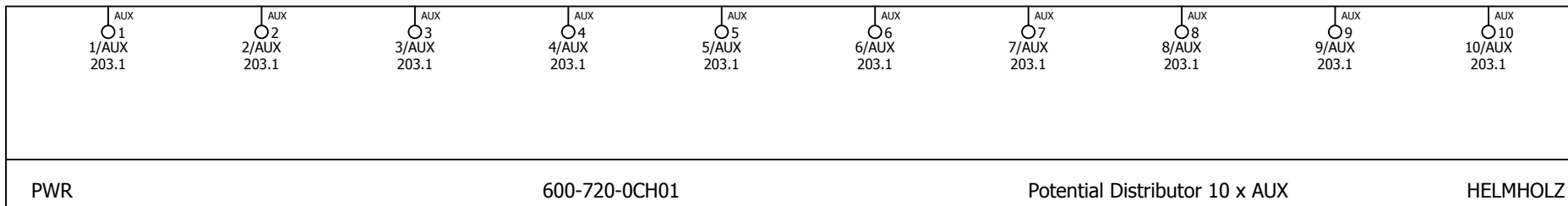
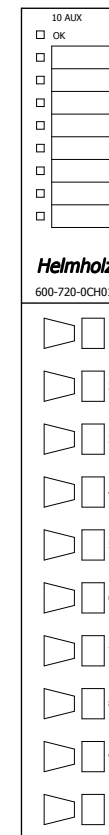




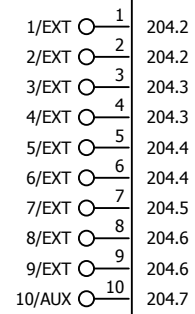
-A203



-A203

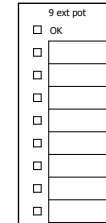


-A204

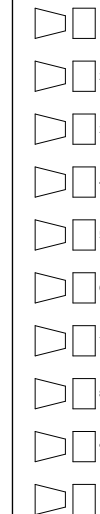


600-720-0XH01  
Helmholz  
Potential Distributor 9 x Free pot.

-A204



**Helmholz**  
600-720-0XH01



-A204  
204.6



PWR

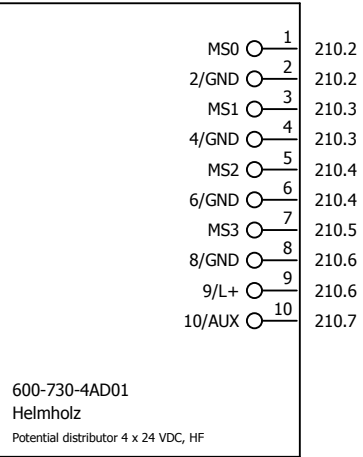
600-720-0XH01

Potential Distributor 9 x Free pot.

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			Bearb.	AM							
			Datum	28. 10. 2015							
Änderung	Datum	Name	Norm		Urspr.	Ers.f.	Ers.d.			Helmholz TB20 Makros	Bl. 204 von 210 Bl.

-A210

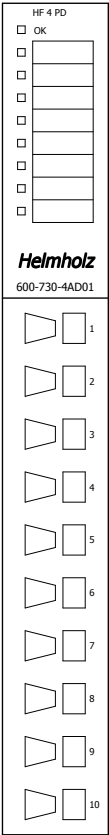


600-730-4AD01

Helmholz

Potential distributor 4 x 24 VDC, HF

-A210



-A210  
210.6

