

# Ferlin

Galleistraat 29  
7701 SK  
Dedemsvaart  
HOLLAND  
tel. 0523-613439  
fax 0523-616587

**PROJECT:**  
FERLIN GRAVIMETRIC BLENDER

**SUBJECT:**  
MAIN DIAGRAM 3 PHASE 400V + N

**DRAWN BY:** H. Wennemars  
**DATE:** 30-1-2020  
**PROJECTNO.** FGB 5  
**PAGE:** 1 **OF:** 13

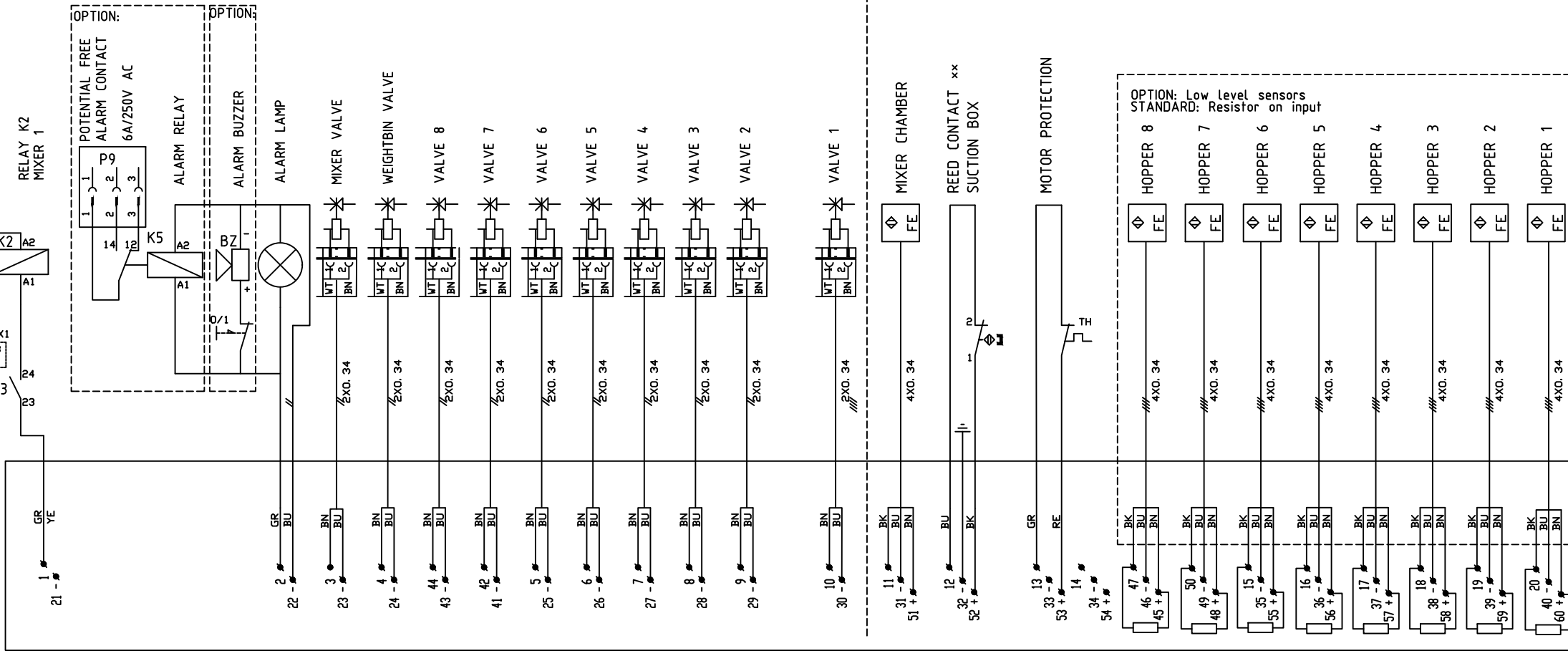
**DRAWING NUMBER:**  
FGB 580 Kg H

**REVISION**  
12-12-2023

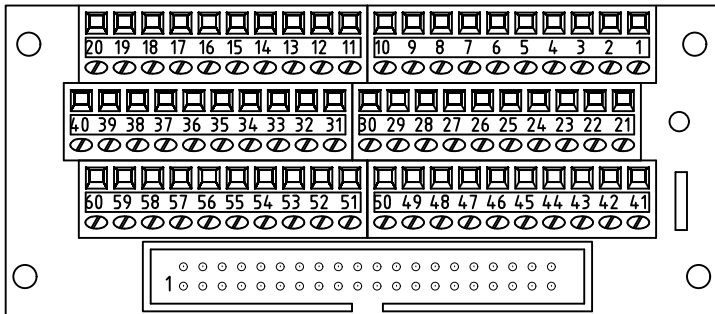
A4

24Vdc OUTPUT

24Vdc INPUT

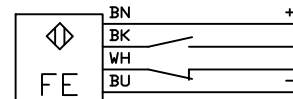


WIRING DIAGRAM INSERTED MODULE ON MAIN PCB



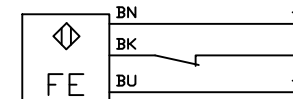
BK=BLACK  
 BU=BLUE  
 BN=BROWN  
 WH=WHITE  
 YE=YELLOW  
 RE=RED  
 GR=GRAY

Rechner KAS 80  
 PNP 24VDC



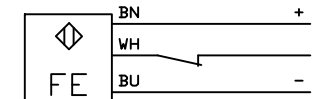
mixer or hopper sensorx

IFM KI5083 or  
 Baumer CFAM  
 PNP 24VDC



mixer sensorx

Carlo Gavazzi  
 EC3025PPAPL-1



mixer sensorx

x = All sensors are NO except Mixer sensor is NC  
 xx = Or machine hopper sensor.

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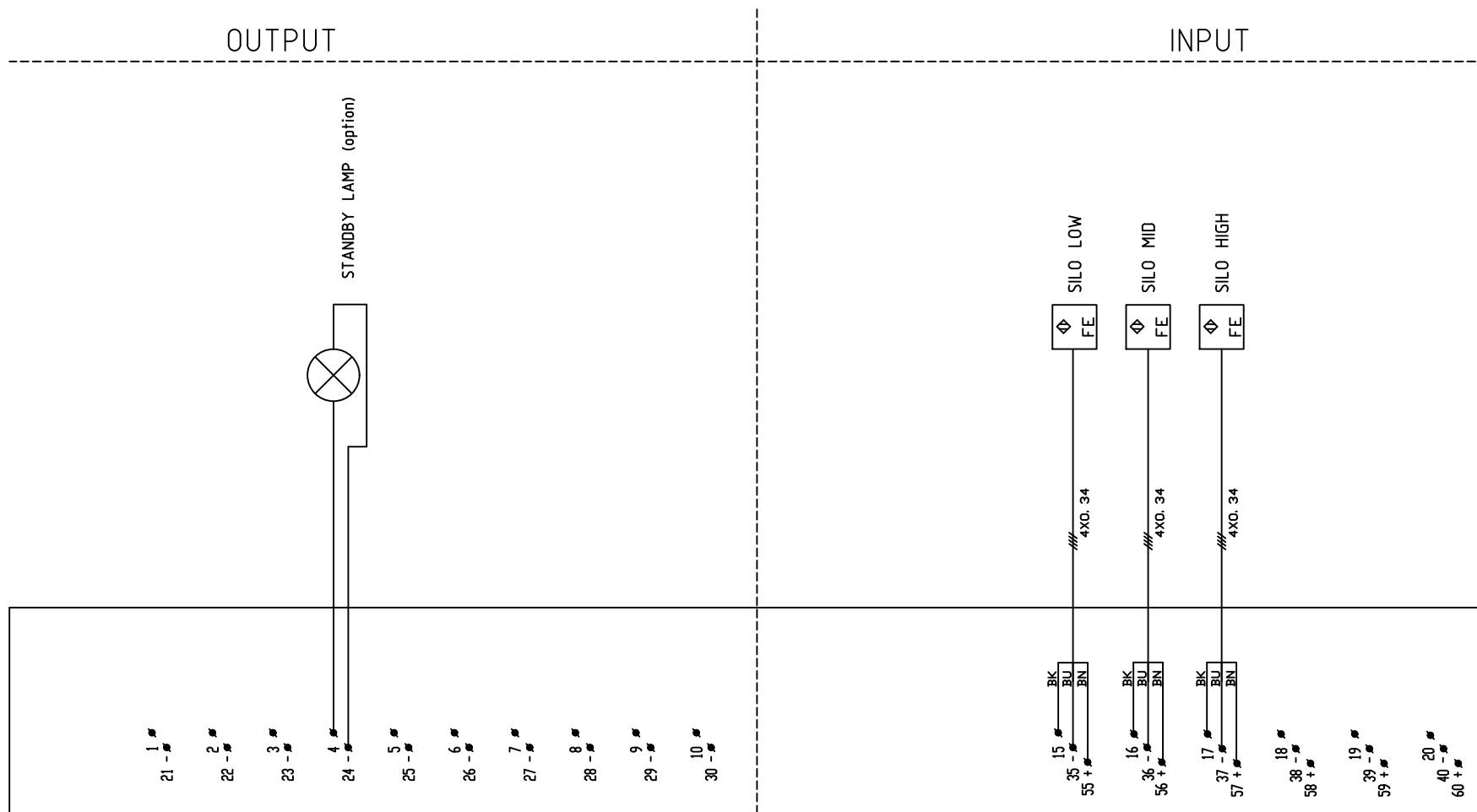
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PROJECT:  
 FERLIN GRAVIMETRIC BLENDER  
 SUBJECT:  
 24Vdc IN-OUTPUT X1 - X60

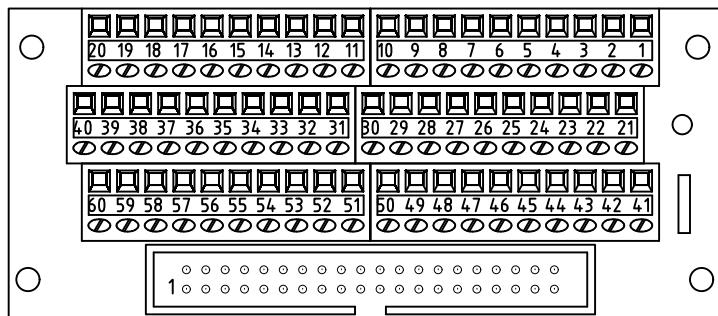
DRAWN BY: H. Wennemars  
 DATE: 30-1-2020  
 PROJECTNO. FGB 5  
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DRAWING NUMBER:  
 FGB 580 Kg H  
 REVISION  
 12-12-2023

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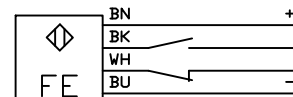


WIRING DIAGRAM EXPANSION BOARD



BK=BLACK  
BU=BLUE  
BN=BROWN  
WH=WHITE  
YE=YELLOW  
RE=RED

Rechner KAS 80  
PNP 24VDC



hopper or silo sensor connect as N.O.

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PROJECT:  
FERLIN GRAVIMETRIC BLENDER  
SUBJECT:  
I/O EXPANSION

DRAWN BY: H. Wennemars

DATE: 30-1-2020

PROJECTNO. FGB 5

PAGE: 3 OF: 13

DRAWING NUMBER:

FGB 580 Kg H

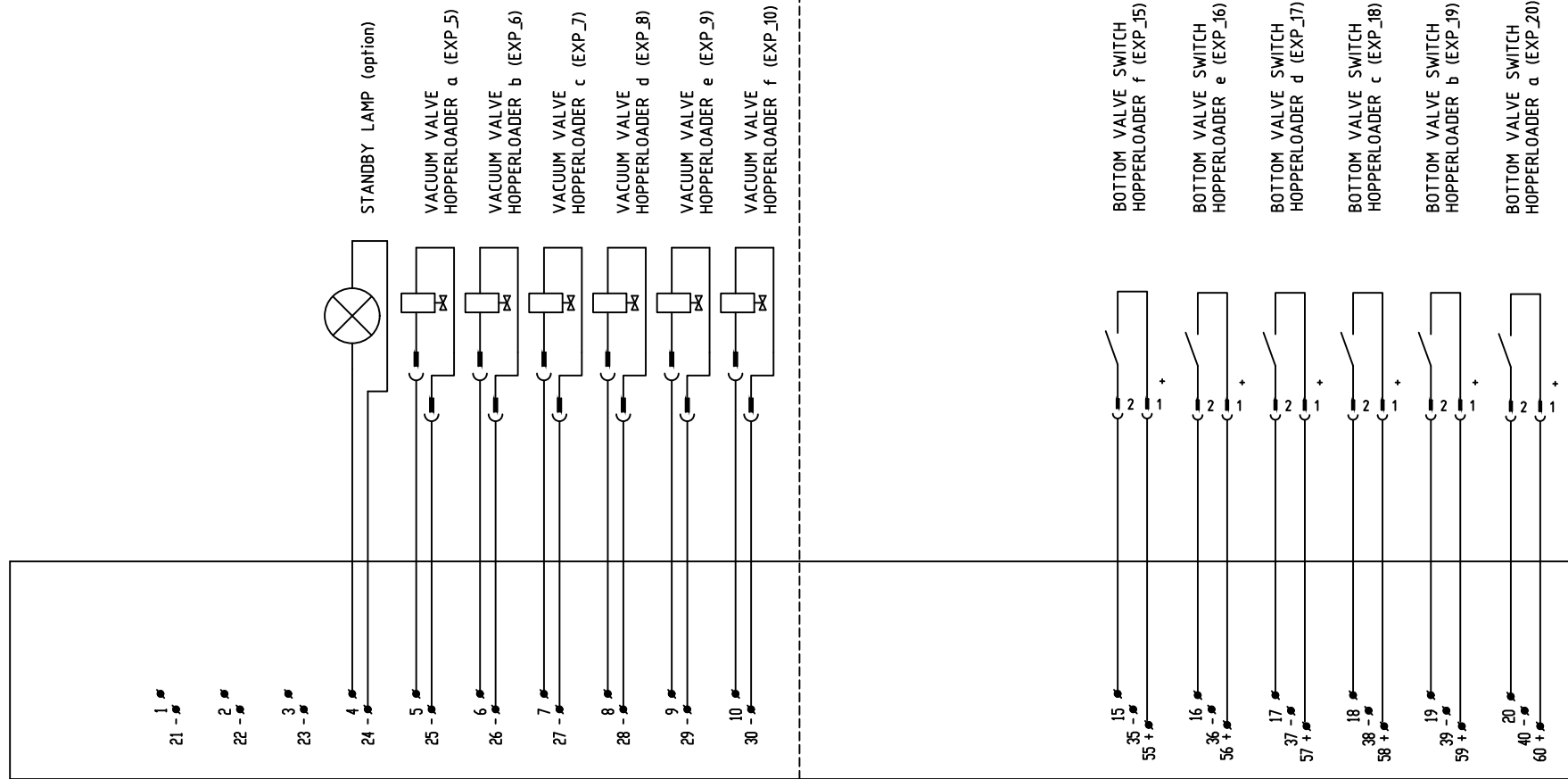
REVISION

12-12-2023

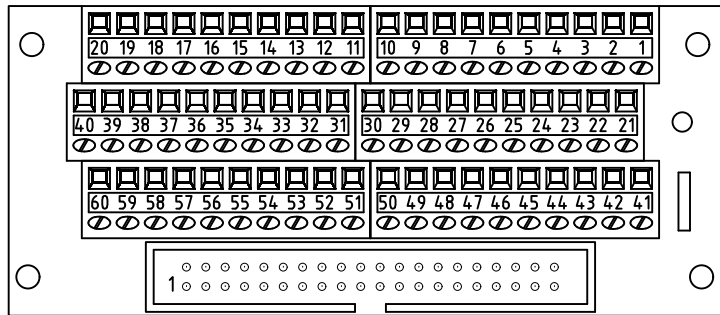
A4

OUTPUT

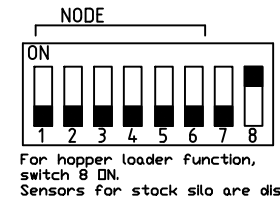
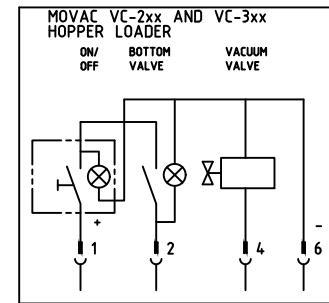
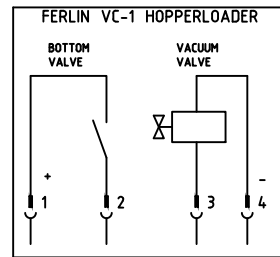
INPUT



WIRING DIAGRAM EXPANSION BOARD



BK=BLACK  
 BU=BLUE  
 BN=BROWN  
 WH=WHITE  
 YE=YELLOW  
 RE=RED



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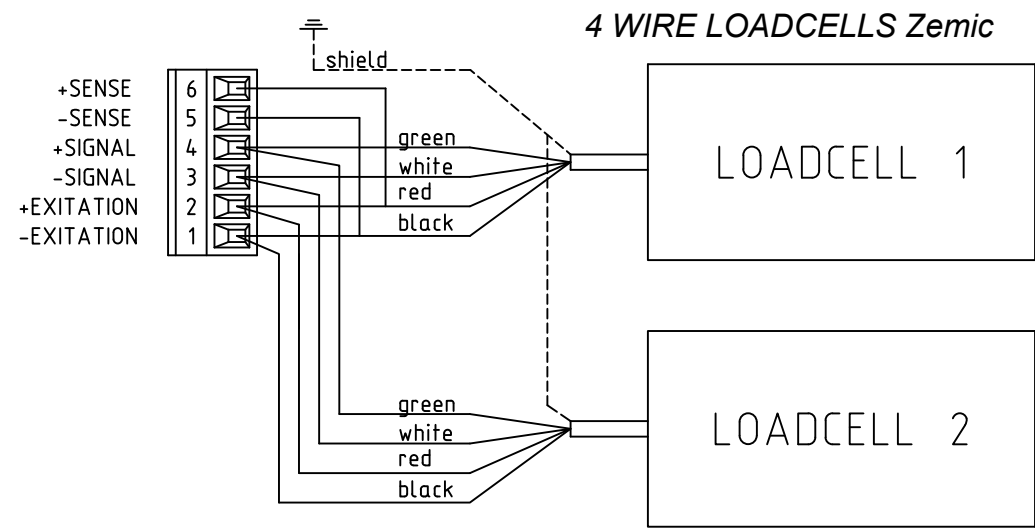
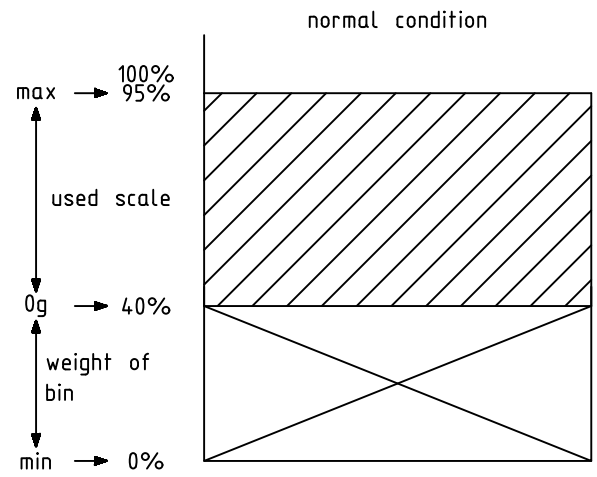
Galleistraat 29  
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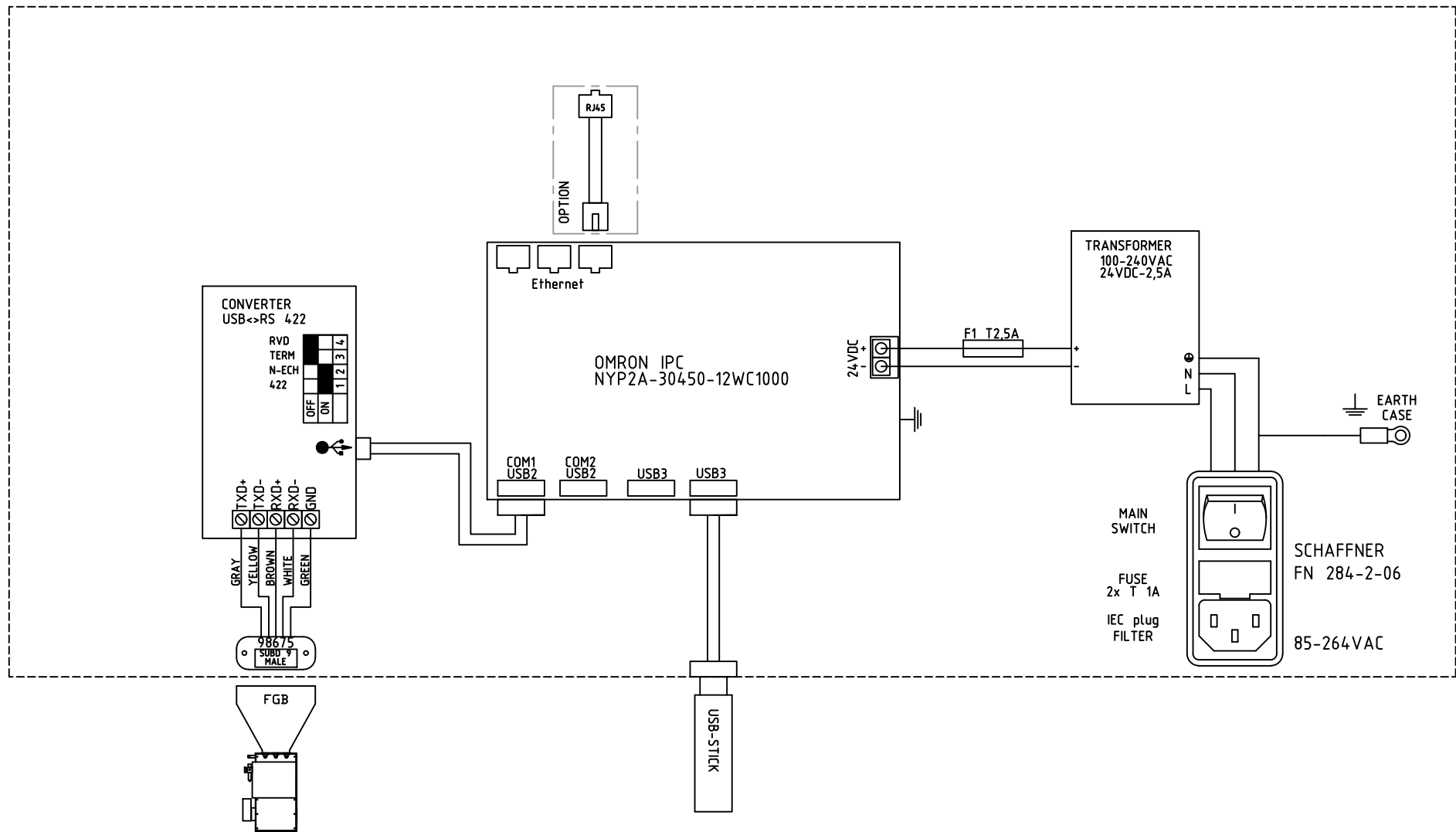
PROJECT:  
 FERLIN GRAVIMETRIC BLENDER  
 SUBJECT:  
 I/O EXPANSION

DRAWN BY: H. Wennemars  
 DATE: 30-1-2020  
 PROJECTNO. FGB 5  
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# LOADCELL SCALE





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**PROJECT:**  
FERLIN GRAVIMETRIC BLENDER

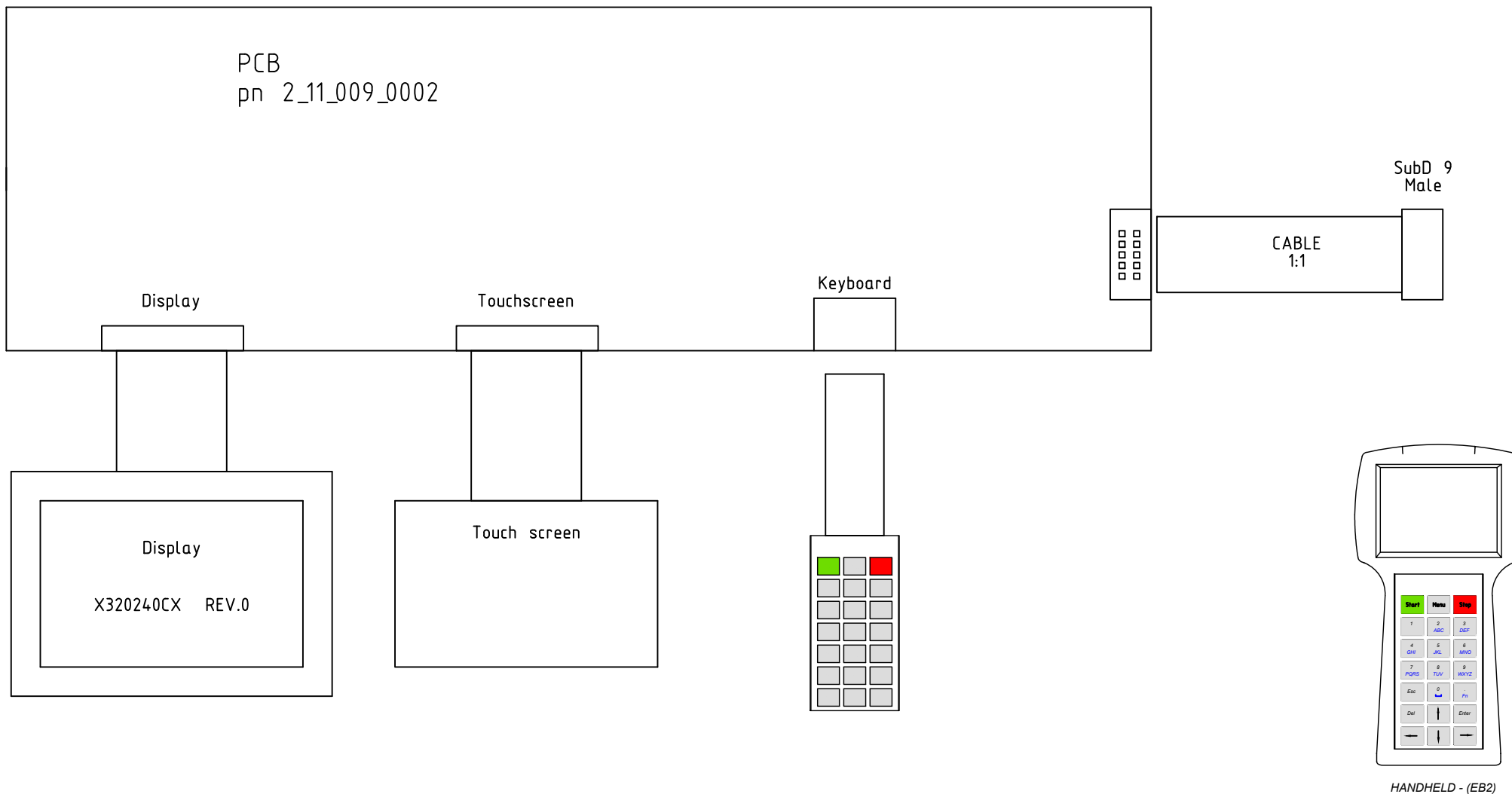
**SUBJECT:**  
IPC USER INTERFACE

**DRAWN BY:** H. Wennemars  
**DATE:** 30-1-2020  
**PROJECTNO.** FGB 5  
**PAGE:** 5     **OF:** 13

**DRAWING NUMBER:**  
FGB 580 Kg H

**REVISION**  
12-12-2023

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HANDHELD - (EB2)

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**PROJECT:**  
FERLIN GRAVIMETRIC BLENDER

**SUBJECT:**  
HANDHELD TERMINAL

**DRAWN BY:** H. Wennemars

**DATE:** 30-1-2020

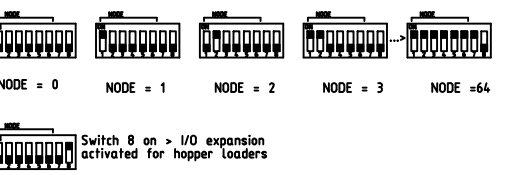
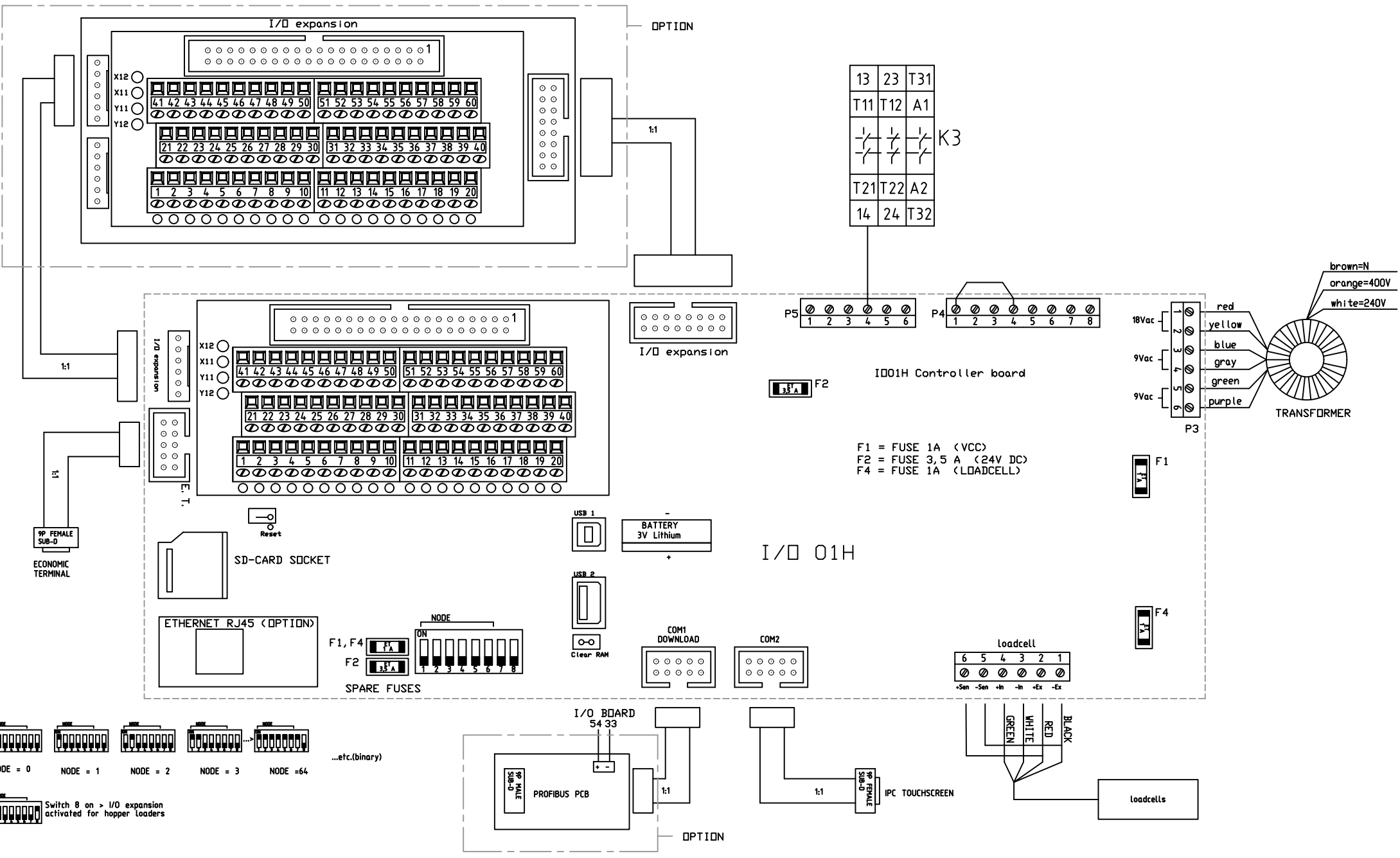
**PROJECTNO.** FGB 5

**PAGE:** 6    **OF:** 13

**DRAWING NUMBER:**  
FGB 580 Kg H

**REVISION**  
12-12-2023

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**Ferlin**

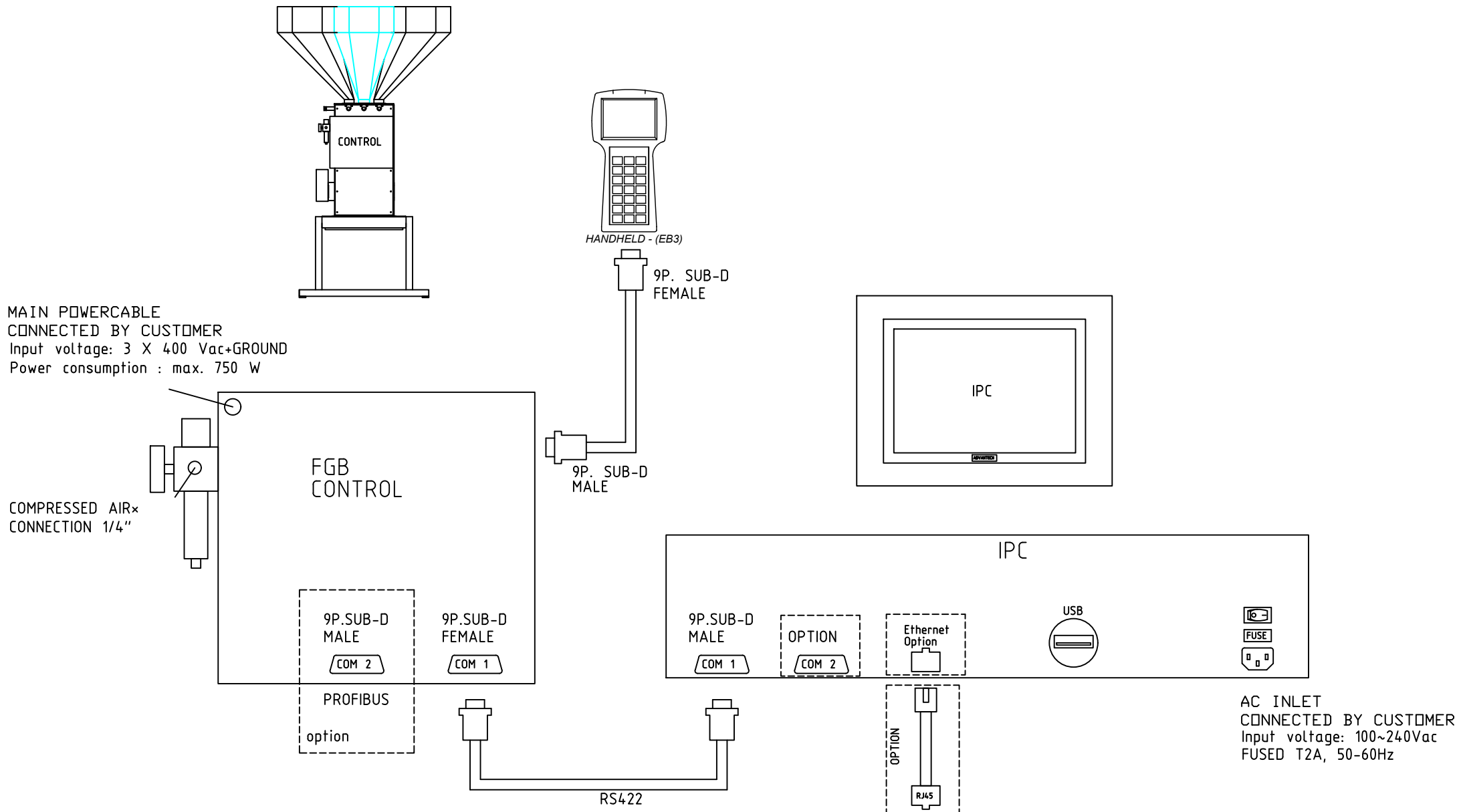
Galleistraat 29  
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PROJECT: FERLIN GRAVIMETRIC BLENDER  
SUBJECT: I/O 01H CONNECTIONS

DRAWN BY: H. Wennemars  
DATE: 30-1-2020  
PROJECTNO. FGB 5  
PAGE: 7 OF: 13

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x COMPRESSED AIR SUPPLY : 6 BAR  
COMPRESSED AIR CONSUMPTION : 200 NL/h

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PROJECT:  
FERLIN GRAVIMETRIC BLENDER

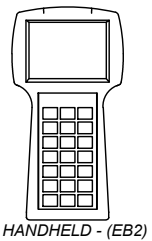
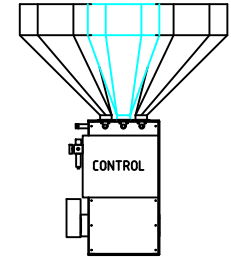
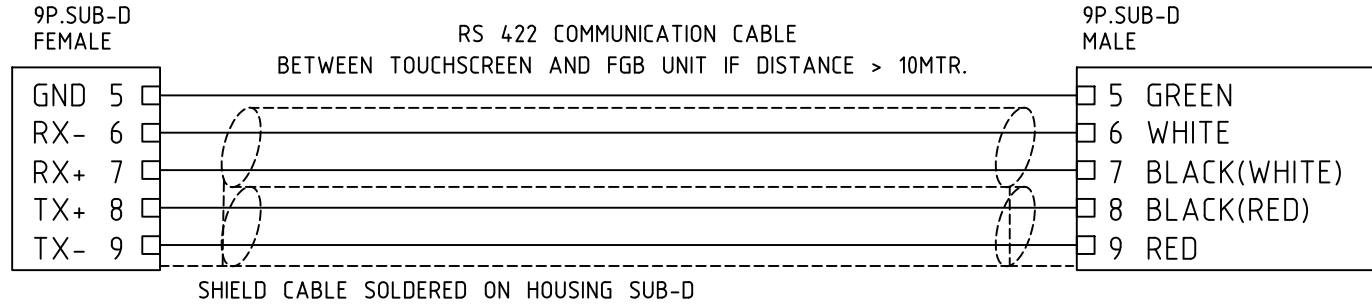
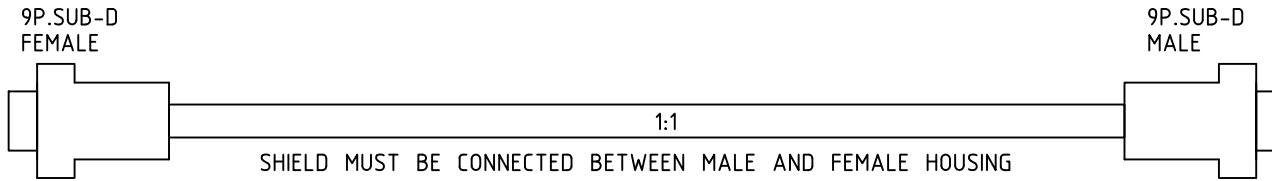
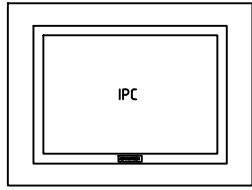
SUBJECT:  
IPC FGB CONNECTIONS

DRAWN BY: H. Wennemars  
DATE: 30-1-2020  
PROJECTNO. FGB 5  
PAGE: 8 OF: 13

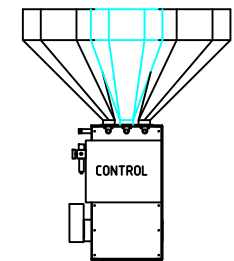
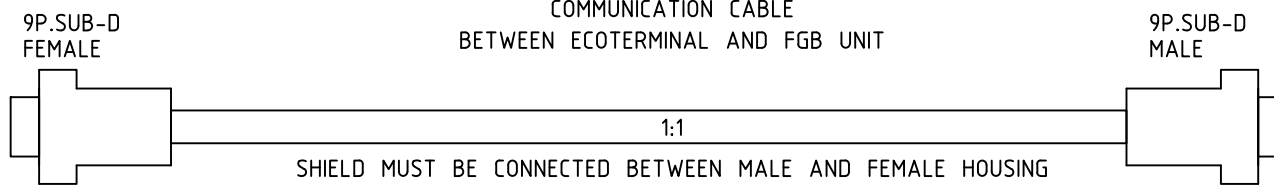
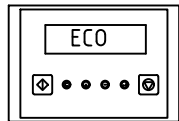
DRAWING NUMBER:  
FGB 580 Kg H

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12-12-2023

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HANDHELD - (EB2)



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**PROJECT:**  
FERLIN GRAVIMETRIC BLENDER

**SUBJECT:**  
COMMUNICATION CABLE

**DRAWN BY:** H. Wennemars

**DATE:** 30-1-2020

**PROJECTNO.** FGB 5

**PAGE:** 9 **OF:** 13

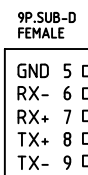
**DRAWING NUMBER:**

FGB 580 Kg H

**REVISION**

12-12-2023

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- 6 WHITE = RX-
- 7 BLACK(WHITE) = RX+
- 8 BLACK(RED) = TX+
- 9 RED = TX-
- 5 GREEN = GND

Take care of the twisted pairs  
Rx+ and Rx- is a pair  
Tx+ and Tx- is a pair.

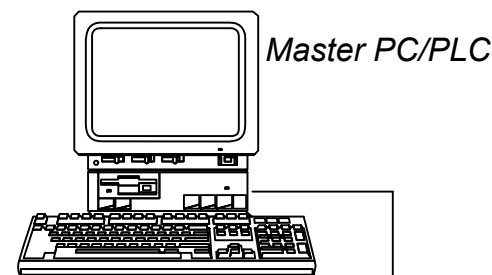
Junction box 01E01.JB003

Connect the shield at the housing

RS422 twisted pair cable (3x2 wires)  
01E49.02339

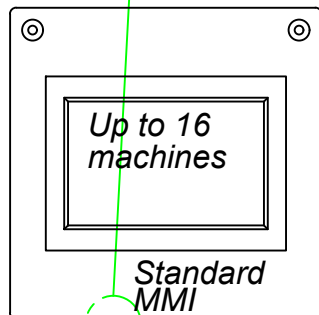
PCB must be isolated mounted in  
junction box with plastic bolts and spacers

10M RS422 cable standard  
delivered with a FGB

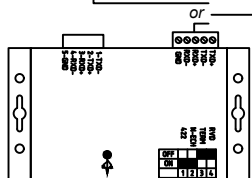


PROFIBUS DP

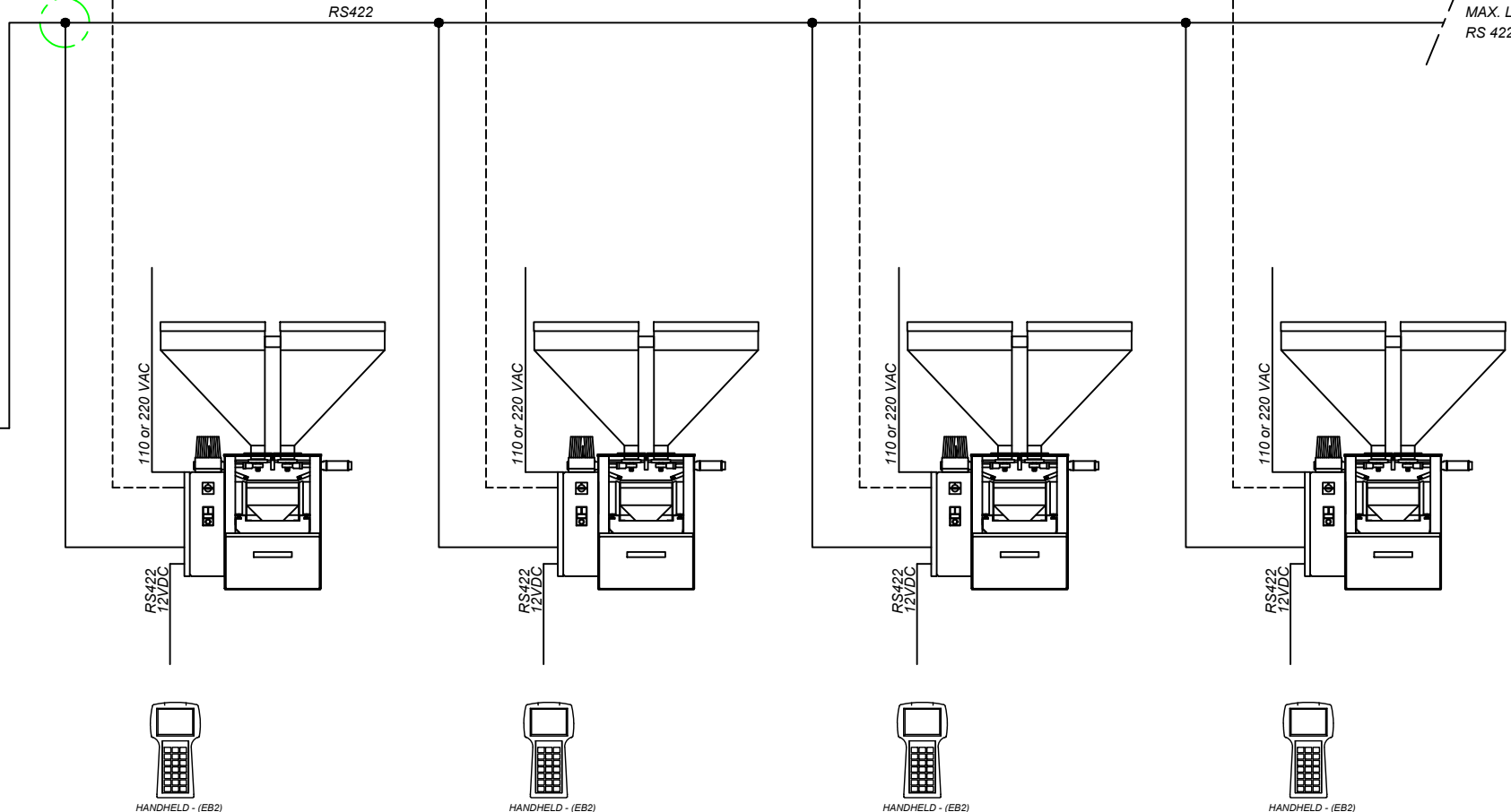
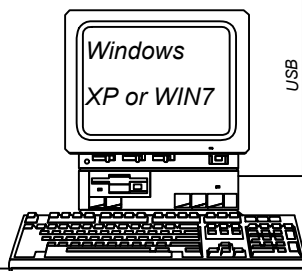
MAX. LENGTH  
RS 422 IS 500 MTR.



85-265VAC



USB



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PROJECT:  
FERLIN GRAVIMETRIC BLENDER

SUBJECT:  
LINKING

DRAWN BY: H. Wennemars

DATE: 30-1-2020

PROJECTNO. FGB 5

PAGE: 10 OF: 13

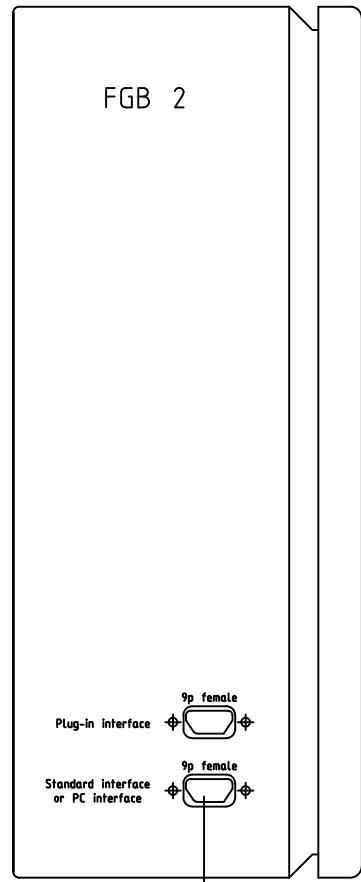
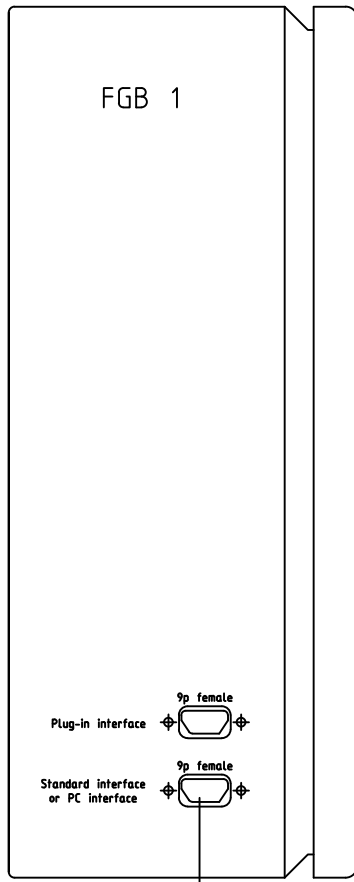
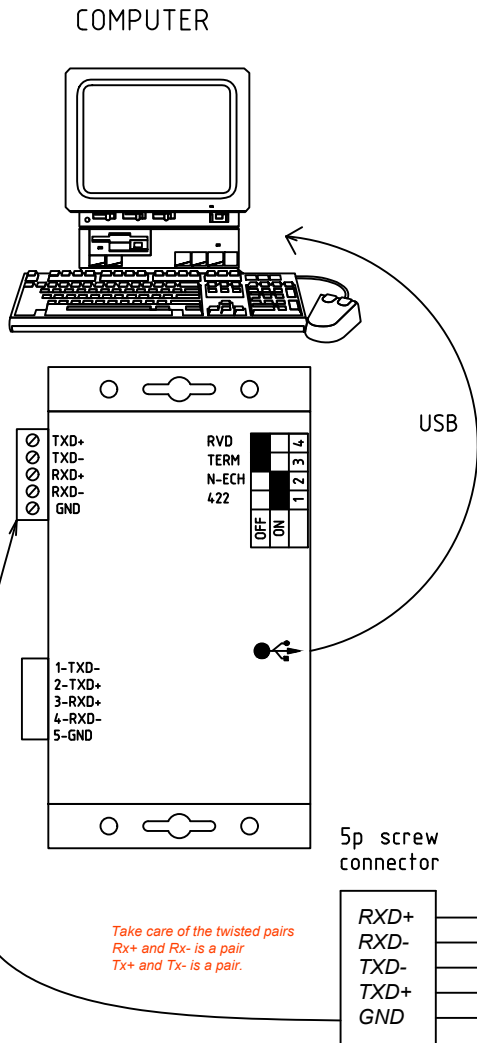
DRAWING NUMBER:

FGB 580 Kg H

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12-12-2023

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Twisted pair cable 3x2X0.34 SHIELDED

CABLE 3x2X0.34 SHIELDED

SHIELD CABLE

JB-3 (junction box)

SHIELD CABLE

JB-3 (junction box)

SHIELD CABLE

- WHITE
- BLACK / W
- BLACK / R
- RED
- GREEN

UP TO 16 UNITS

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PROJECT:  
FERLIN GRAVIMETRIC BLENDER

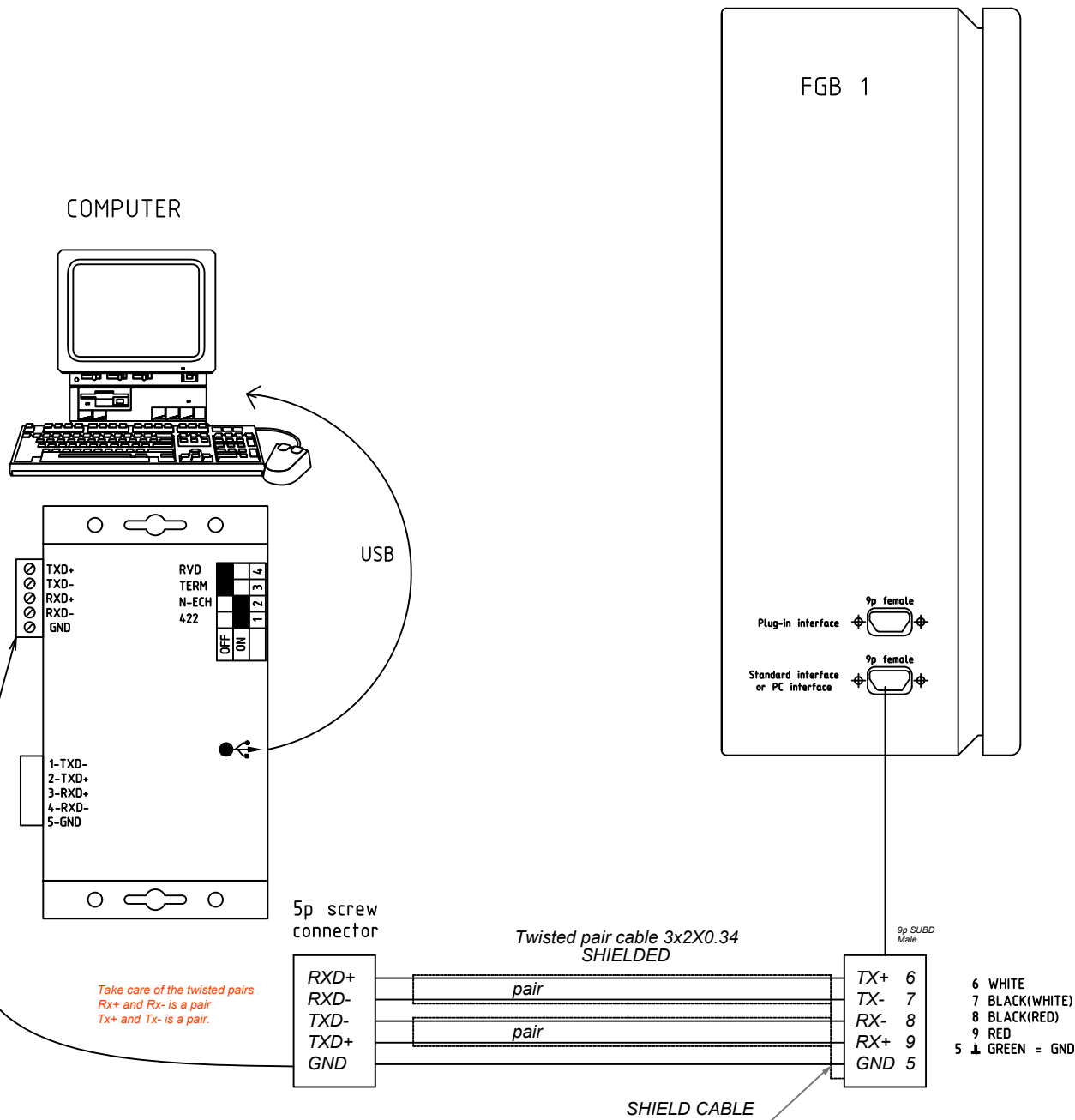
SUBJECT:  
MULTI DROP IO 01 H USB<->RS422

DRAWN BY: H. Wennemars  
DATE: 30-1-2020  
PROJECTNO. FGB 5  
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FGB 580 Kg H

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**PROJECT:**  
FERLIN GRAVIMETRIC BLENDER

**SUBJECT:**  
SINGLE POINT IO 01 H USB<>RS422

**DRAWN BY:** H. Wennemars

**DATE:** 30-1-2020

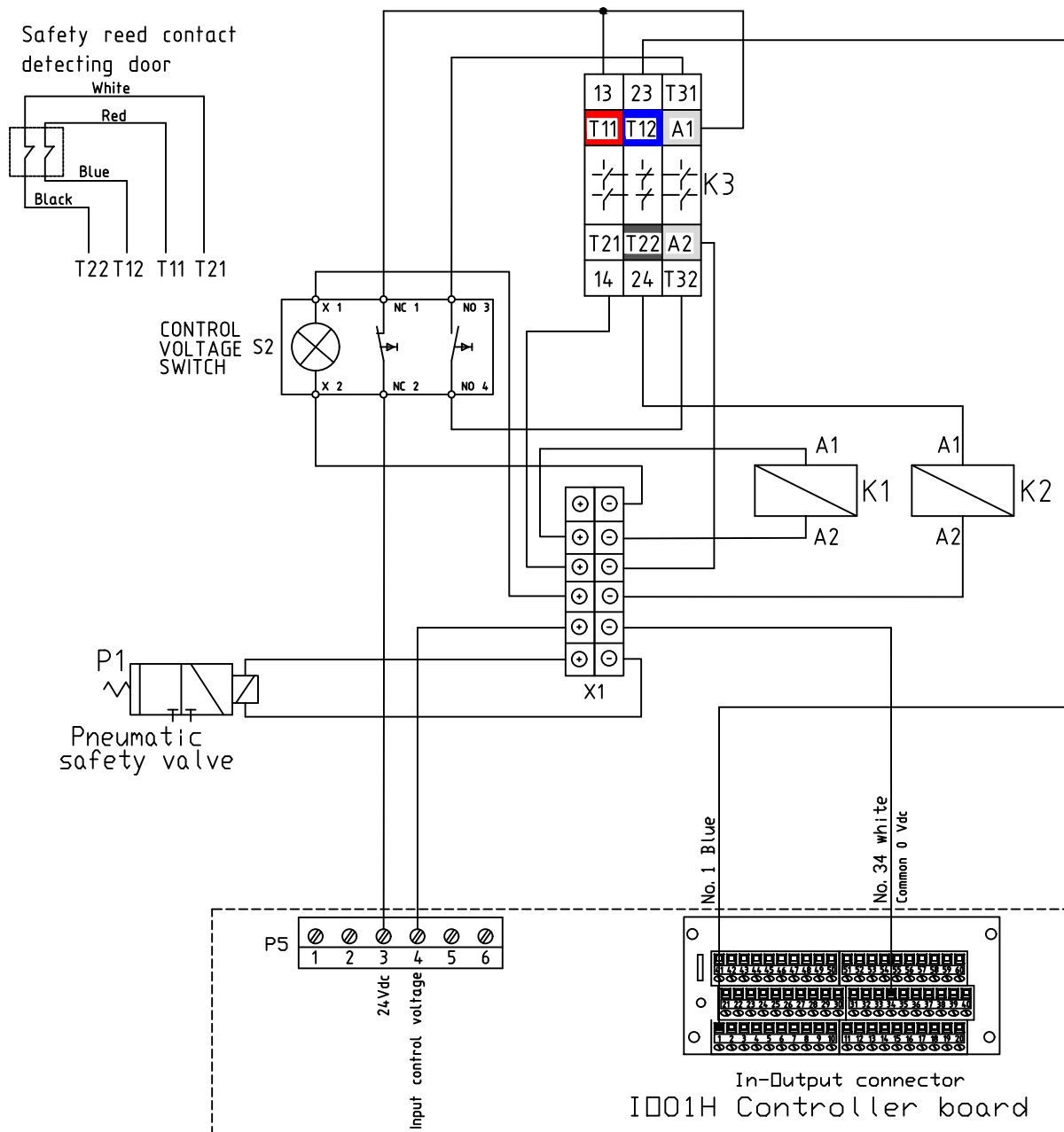
**PROJECTNO.** FGB 5

**PAGE:** 12 **OF:** 13

**DRAWING NUMBER:**  
FGB 580 Kg H

**REVISION**  
12-12-2023

**A4**



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PROJECT: FERLIN GRAVIMETRIC BLENDER  
SUBJECT: SAFETY SWITCH

DRAWN BY: H. Wennemars  
DATE: 30-1-2020  
PROJECTNO. FGB 5  
PAGE: 13 OF: 13

DRAWING NUMBER: FGB 580 Kg H  
REVISION: 12-12-2023

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