

Ferlin

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PROJECT:
 FERLIN GRAVIMETRIC BLENDER

SUBJECT:
 MAIN DIAGRAM 1 PHASE 240V

DRAWN BY: H. Wennemars
DATE: 12-12-2022
PROJECTNO. FGB FLECS
PAGE: 1 **OF:** 12

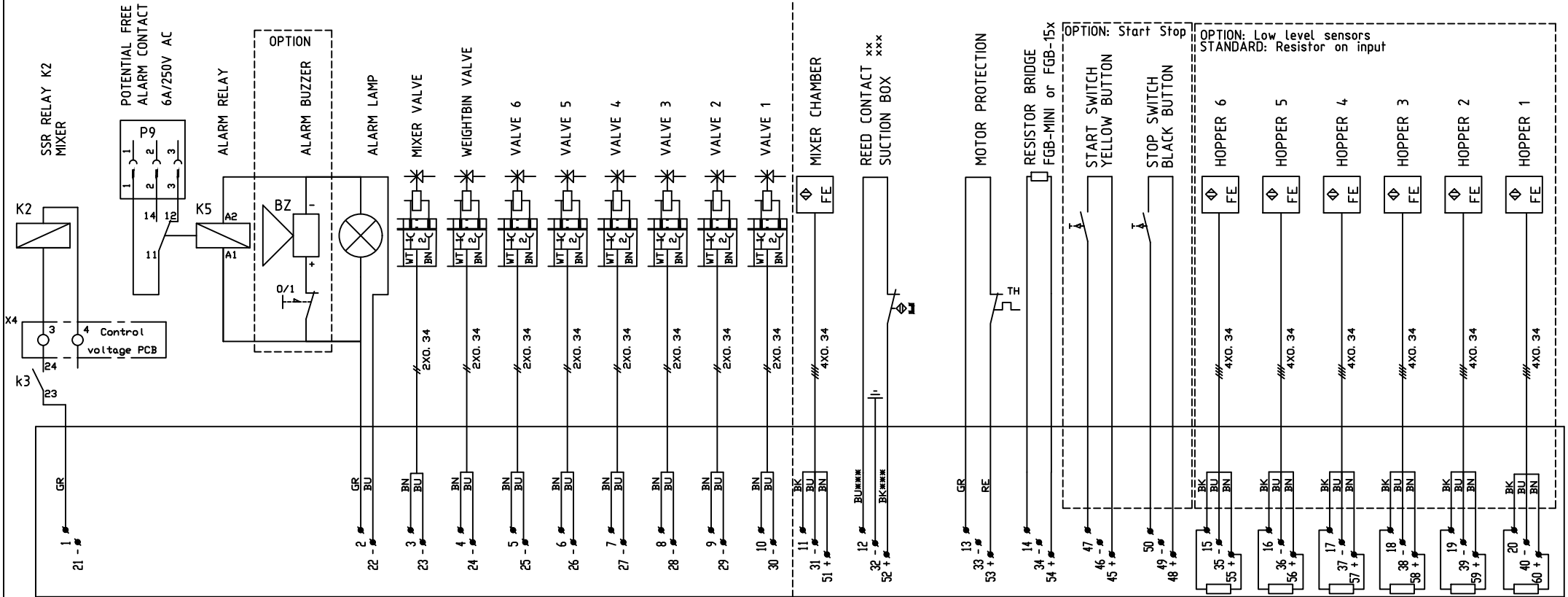
DRAWING NUMBER:
 FGB 1,5 Kg H

REVISION
 12-12-2023

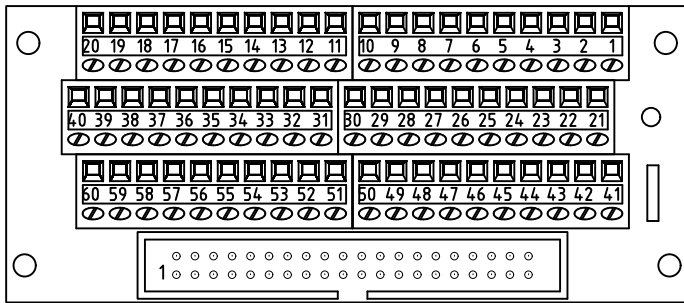
A4

24Vdc OUTPUT

24Vdc INPUT

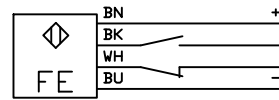


WIRING DIAGRAM INSERTED MODULE ON MAIN PCB



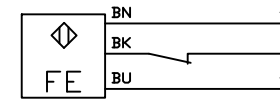
BK=BLACK
BU=BLUE
BN=BROWN
WH=WHITE
YE=YELLOW
RE=RED
GR=GRAY

Rechner KAS 80
PNP 24VDC



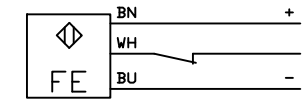
mixer or hopper sensor*

IFM KI5083 or
Baumer CFAM
PNP 24VDC



mixer sensor*

Carlo Gavazzi
EC3025PPAPL-1



mixer sensor*

* = All sensors are NO except Mixer sensor is NC
** = Or machine hopper sensor.
*** = Small reed contact at integrated machine hopper = Yellow and green.

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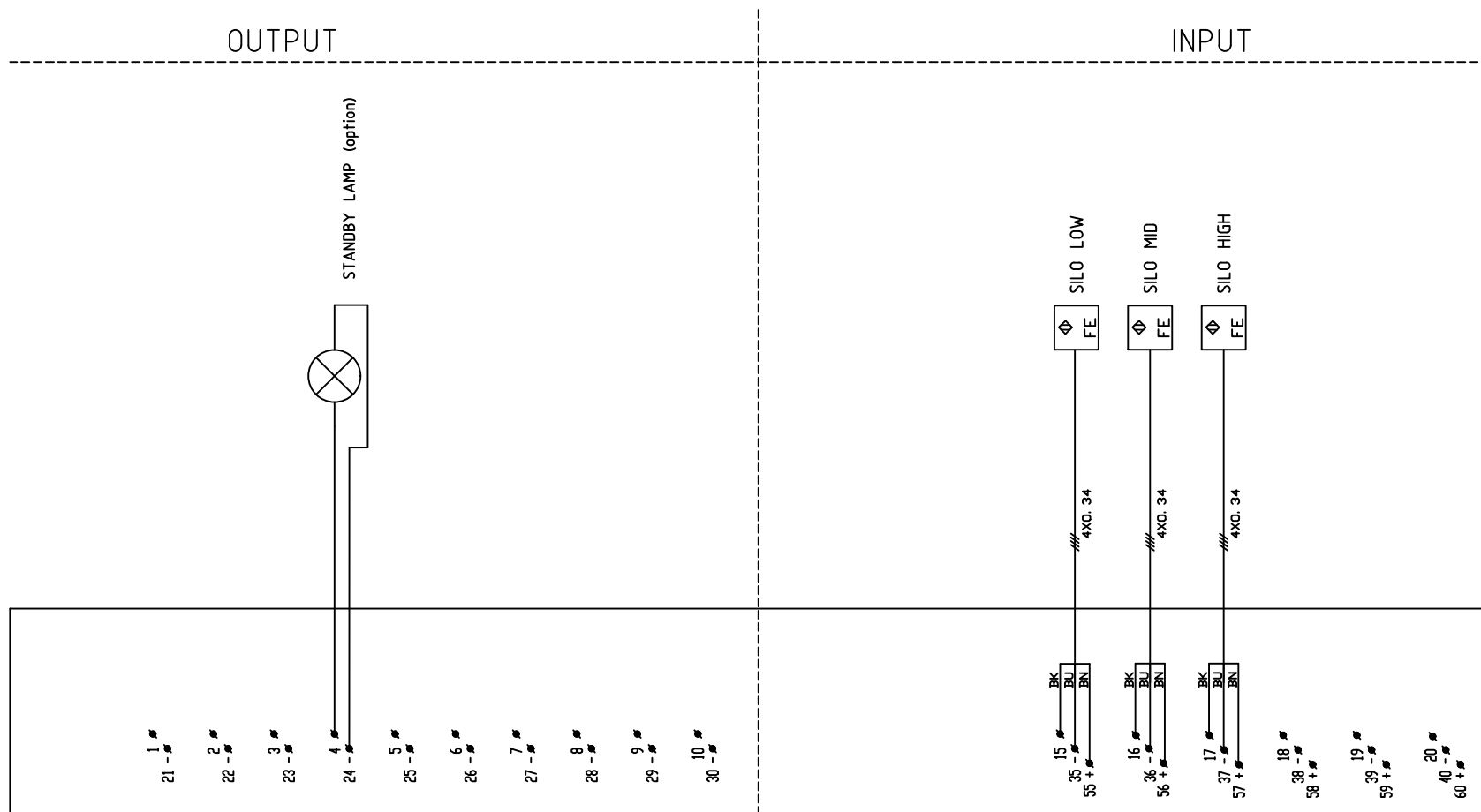
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PROJECT:
FERLIN GRAVIMETRIC BLENDER
SUBJECT:
24Vdc IN-OUTPUT X1 - X60

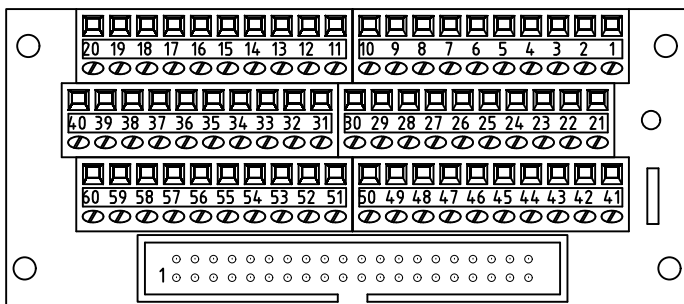
DRAWN BY: H. Wennemars
DATE: 12-12-2022
PROJECTNO. FGB FLECS
PAGE: 2 OF: 12

DRAWING NUMBER:
FGB 1,5 Kg H
REVISION
12-12-2023

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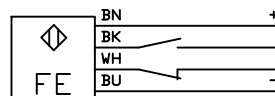


WIRING DIAGRAM EXPANSION BOARD



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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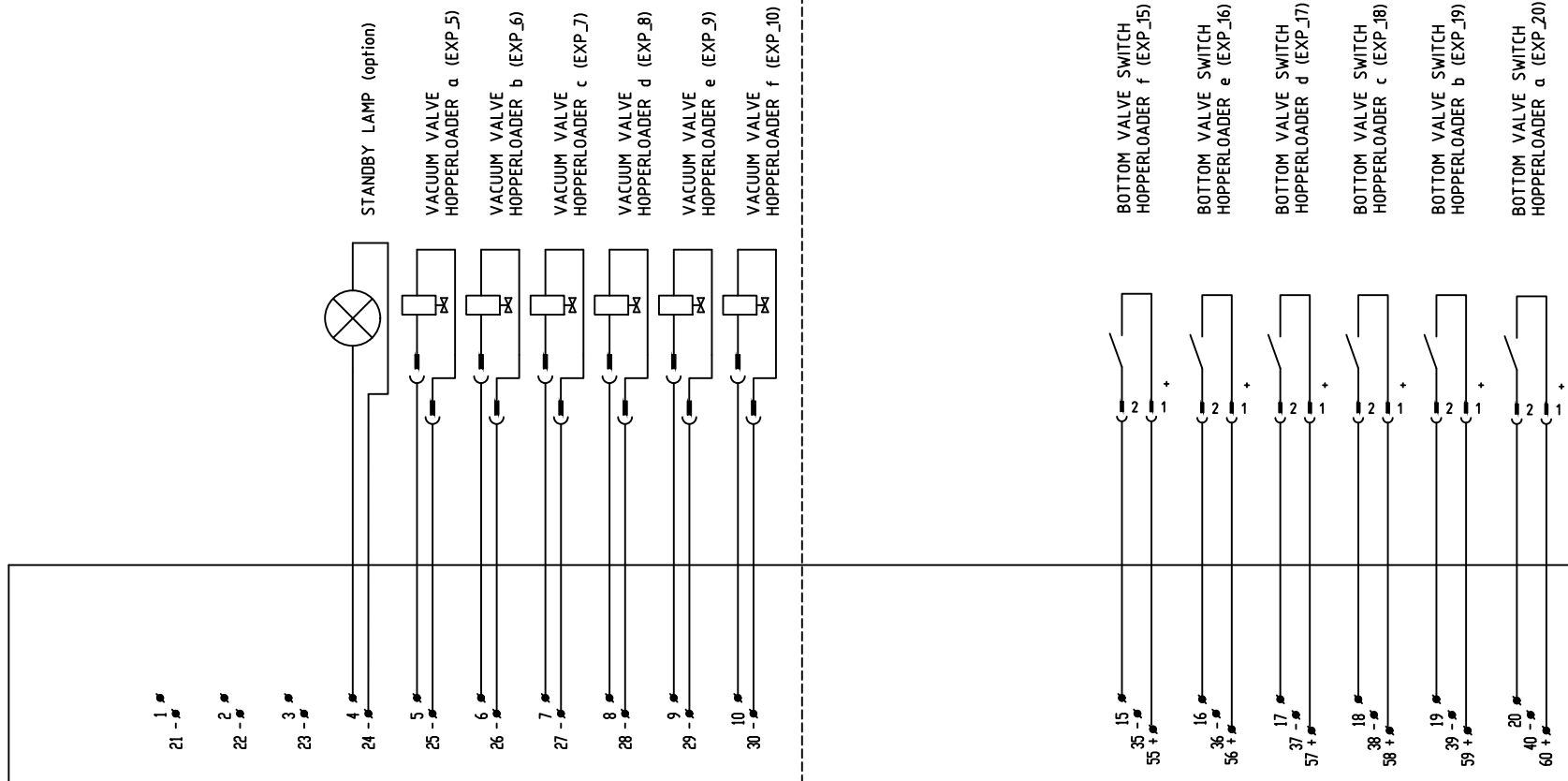
SUBJECT:
 I/O EXPANSION

DRAWN BY: H. Wennemars	DRAWING NUMBER: FGB 1,5 Kg H
DATE: 12-12-2022	REVISION 12-12-2023
PROJECTNO. FGB FLECS	
PAGE: 3 OF: 12	

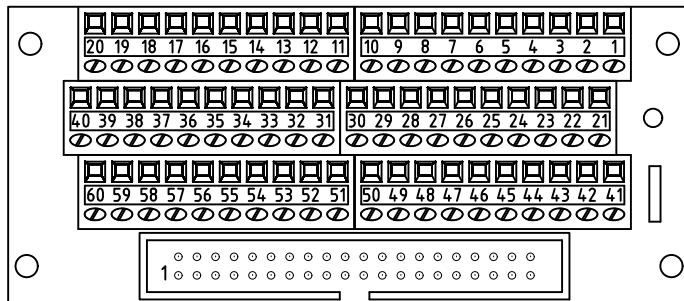
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OUTPUT

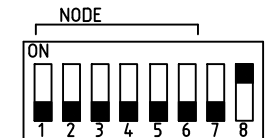
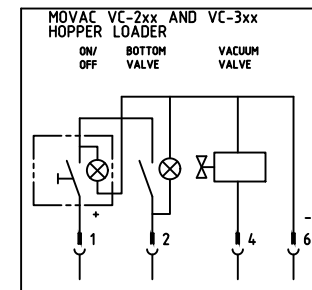
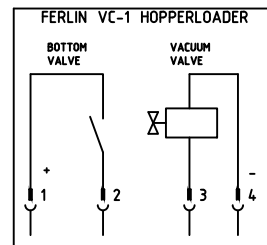
INPUT



WIRING DIAGRAM EXPANSION BOARD



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



For hopper loader function, switch 8 ON. Sensors for stock silo are disabled.

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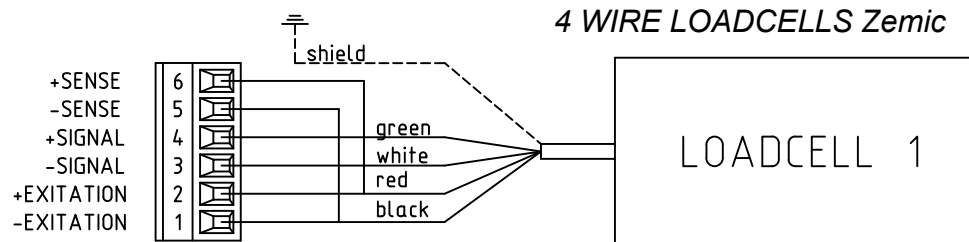
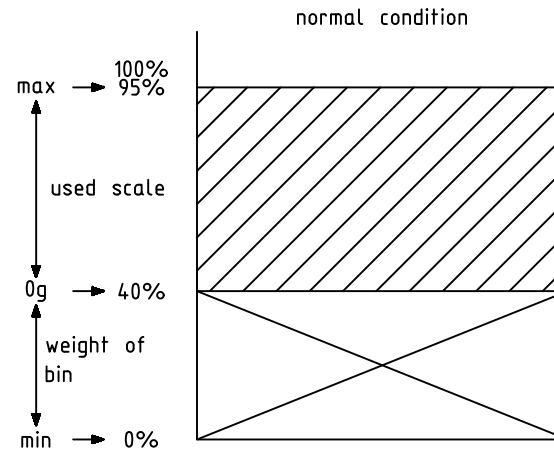
PROJECT: FERLIN GRAVIMETRIC BLENDER
 SUBJECT: I/O EXPANSION

DRAWN BY: H. Wennemars
 DATE: 12-12-2022
 PROJECTNO. FGB FLECS
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DRAWING NUMBER: FGB 1,5 Kg H
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LOADCELL SCALE



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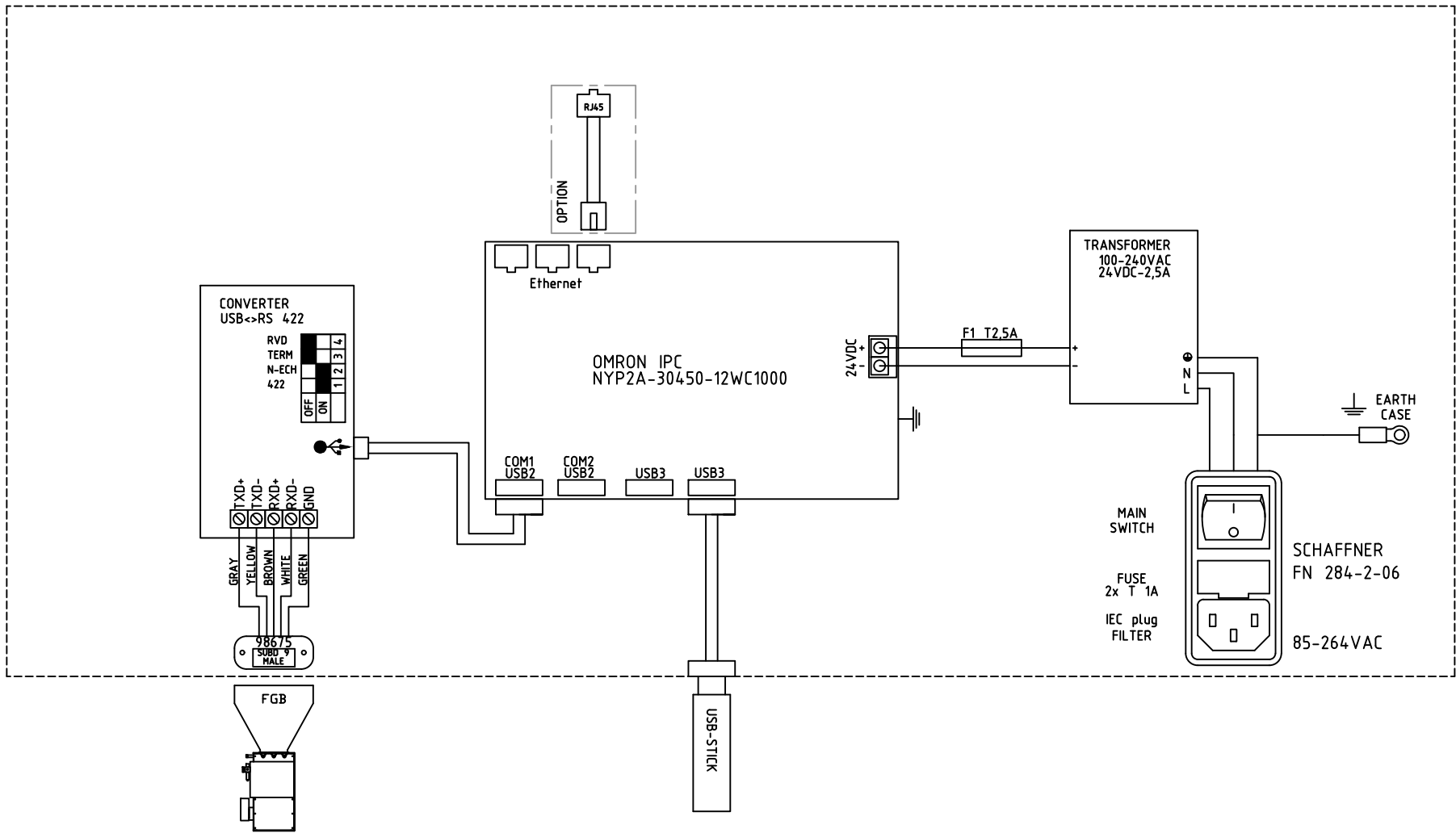
SUBJECT:
LOADCELL CONNECTION

DRAWN BY: H. Wennemars
DATE: 12-12-2022
PROJECTNO. FGB FLECS
PAGE: 4 OF: 12

DRAWING NUMBER:
FGB 1,5 Kg H

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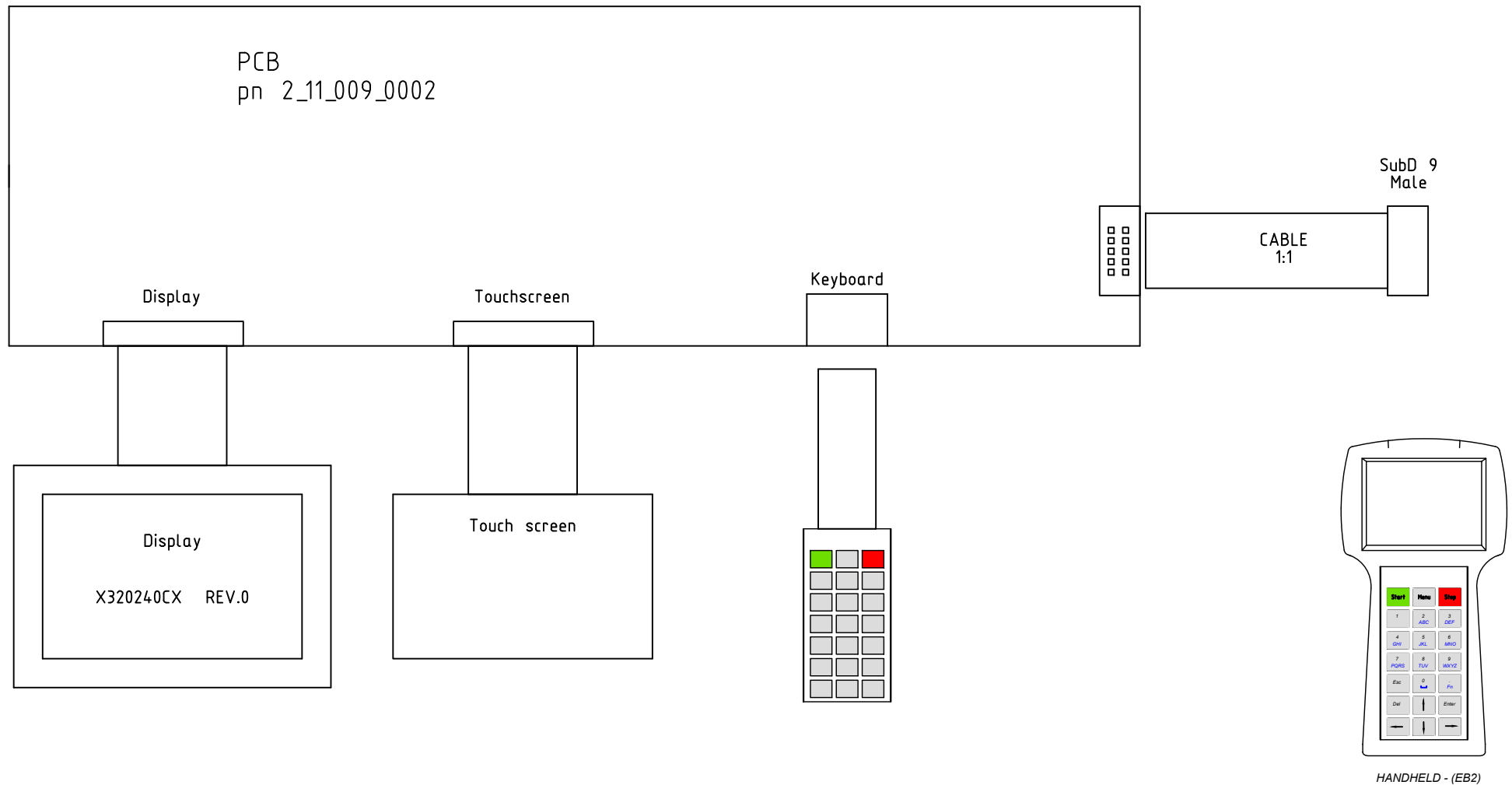
SUBJECT:
IPC USER INTERFACE

DRAWN BY: H. Wennemars
DATE: 12-12-2022
PROJECTNO. FGB FLECS
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DRAWING NUMBER:
FGB 1,5 Kg H

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12-12-2023

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PROJECT:
FERLIN GRAVIMETRIC BLENDER

SUBJECT:
HANDHELD TERMINAL

DRAWN BY: H. Wennemars

DATE: 12-12-2022

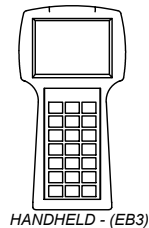
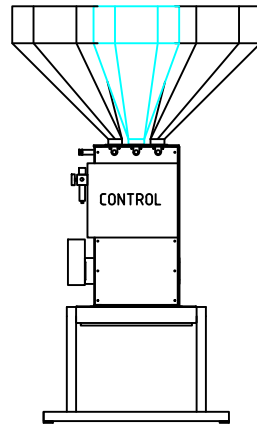
PROJECTNO. FGB FLECS

PAGE: 6 **OF:** 12

DRAWING NUMBER:
FGB 1,5 Kg H

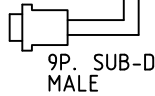
REVISION
12-12-2023

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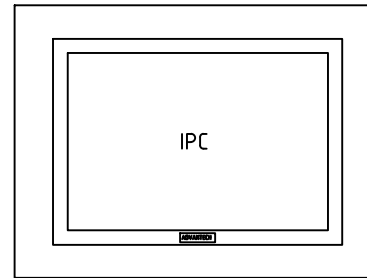


HANDHELD - (EB3)

9P. SUB-D FEMALE



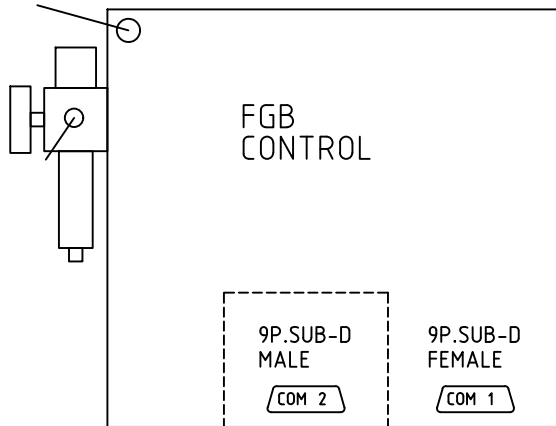
9P. SUB-D MALE



IPC

MAIN POWERCABLE
CONNECTED BY CUSTOMER
Input voltage: 1x230 or 1x110 Vac+GROUND
Power consumption : max. 200 W

COMPRESSED AIR*
CONNECTION 1/4"



FGB CONTROL

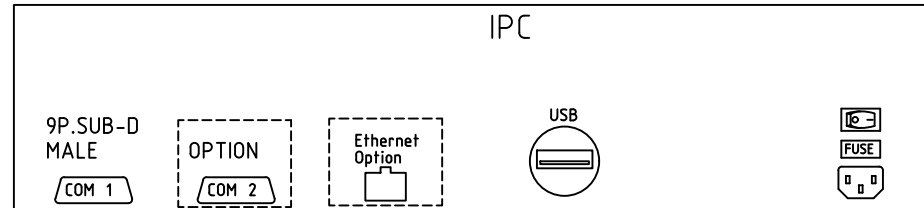
9P.SUB-D MALE
COM 2

9P.SUB-D FEMALE
COM 1

PROFIBUS
option



RS422



IPC

9P.SUB-D MALE
COM 1

OPTION
COM 2

Ethernet
Option



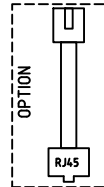
USB



AC INLET

FUSE

AC INLET
CONNECTED BY CUSTOMER
Input voltage: 100~240Vac
FUSED T2A, 50-60Hz



OPTION

RJ45

* 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: 12-12-2022

PROJECTNO. FGB FLECS

PAGE: 8 OF: 12

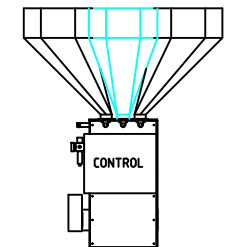
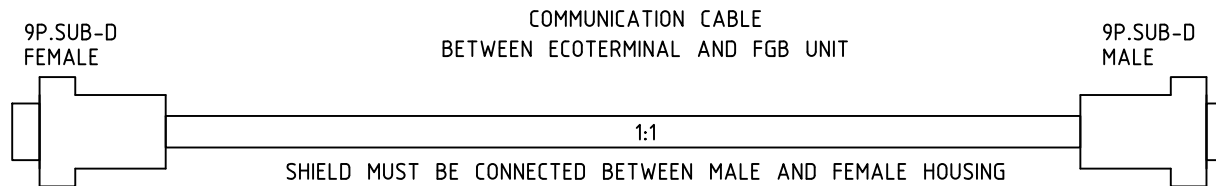
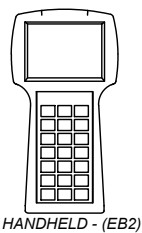
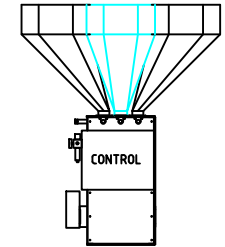
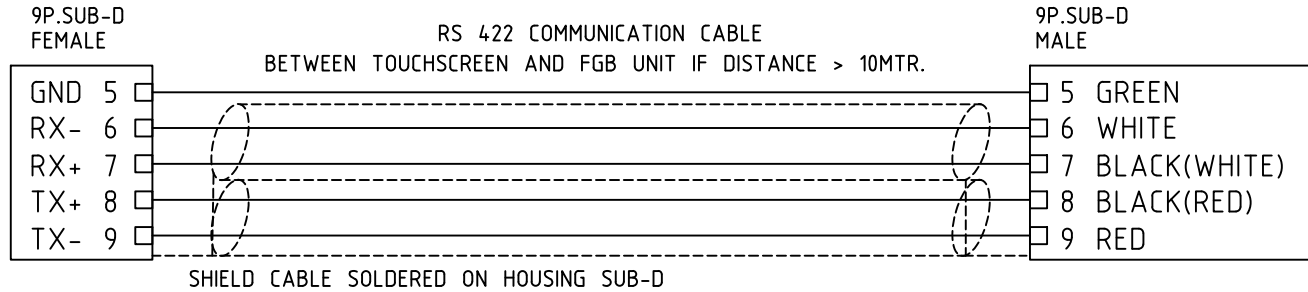
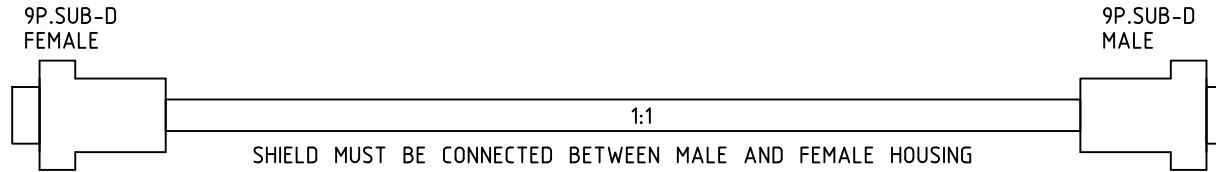
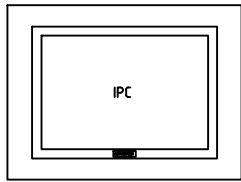
DRAWING NUMBER:

FGB 1,5 Kg H

REVISION

12-12-2023

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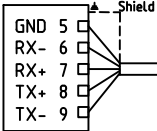
PROJECT:
FERLIN GRAVIMETRIC BLENDER
SUBJECT:
COMMUNICATION CABLE

DRAWN BY: H. Wennemars
DATE: 12-12-2022
PROJECTNO. FGB FLECS
PAGE: 9 OF: 12

DRAWING NUMBER:
FGB 1,5 Kg H
REVISION
12-12-2023

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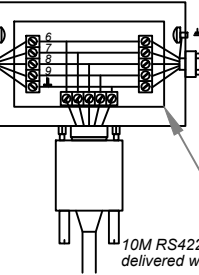
9P SUB-D FEMALE



- 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

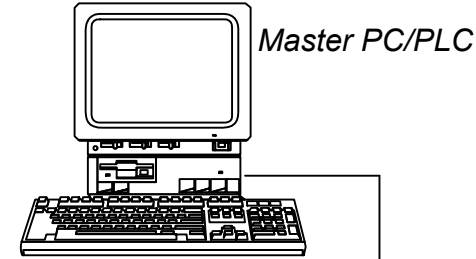


Connect the shield at the housing

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

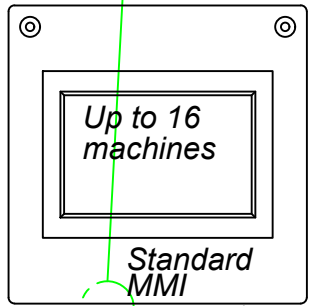
PCB must be isolated mounted in
 junction box with plastic bolts and spacers

10M RS422 cable standard
 delivered with a FGB



PROFIBUS DP

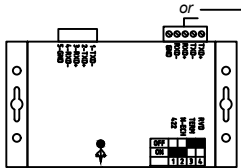
MAX. LENGTH
 RS 422 IS 500 MTR.



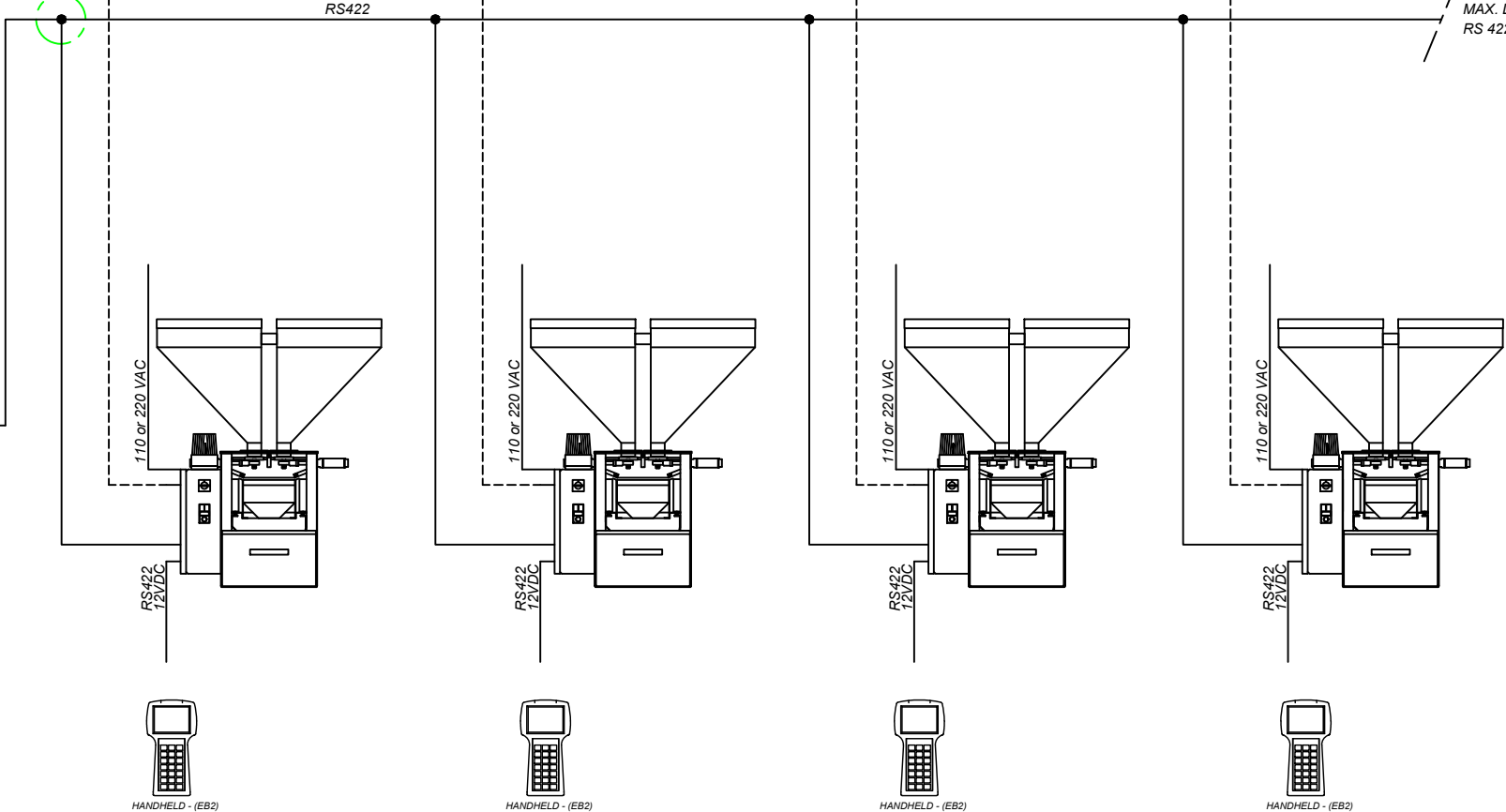
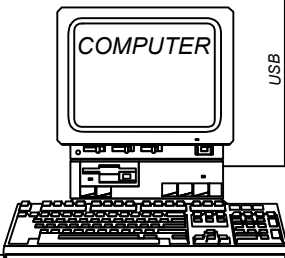
Up to 16 machines

Standard MMI

85-265VAC



USB



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PROJECT: FERLIN GRAVIMETRIC BLENDER
 SUBJECT: LINKING

DRAWN BY: H. Wennemars

DATE: 12-12-2022

PROJECTNO. FGB FLECS

PAGE: 10 OF: 12

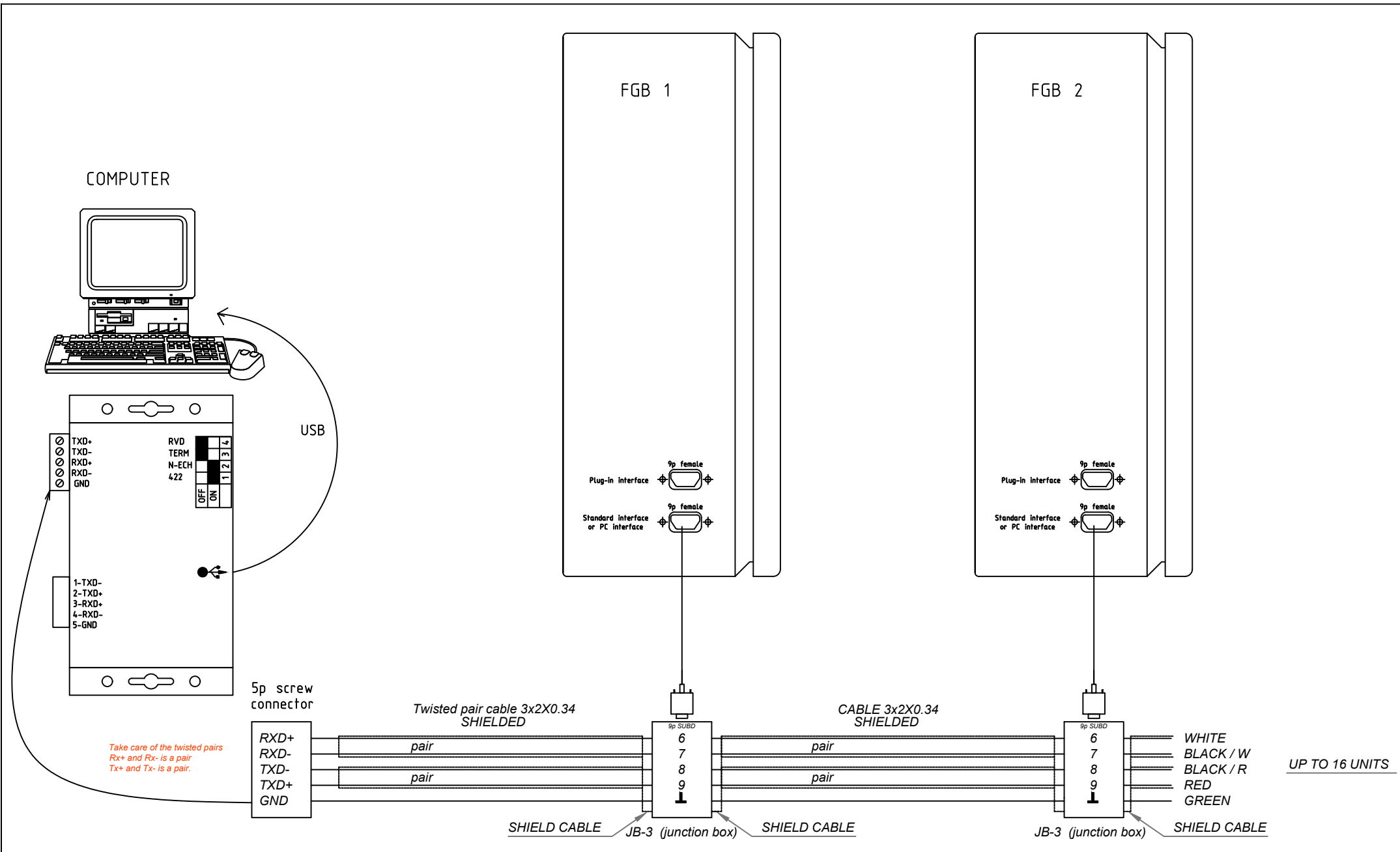
DRAWING NUMBER:

FGB 1,5 Kg H

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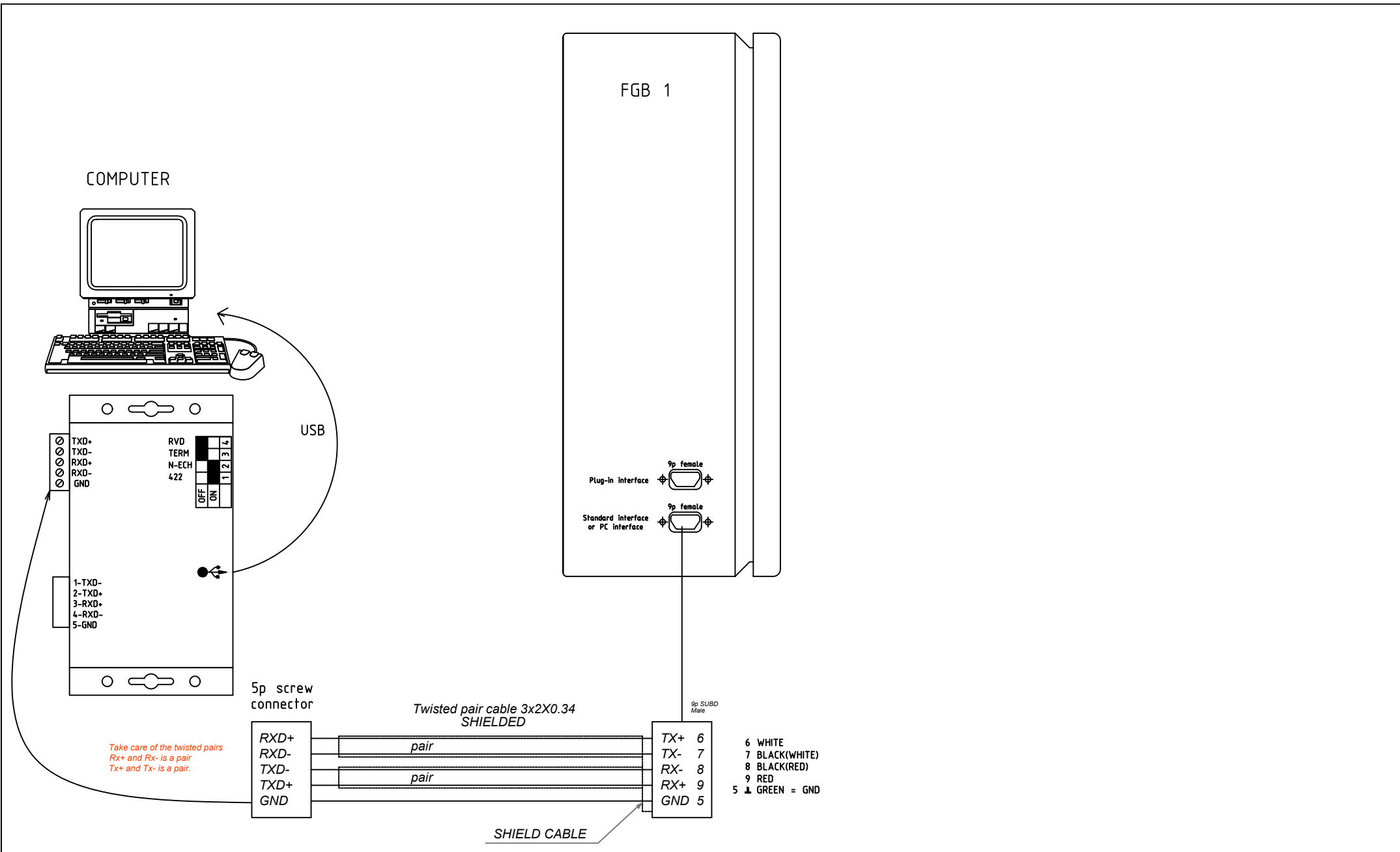
SUBJECT:
MULTI DROP IO 01 H USB<->RS422

DRAWN BY: H. Wennemars
DATE: 12-12-2022
PROJECTNO. FGB FLECS
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DRAWING NUMBER:
FGB 1,5 Kg H

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12-12-2023

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PROJECT: FERLIN GRAVIMETRIC BLENDER

SUBJECT: SINGLE POINT IO 01 H USB<>RS422

DRAWN BY: H. Wennemars

DATE: 12-12-2022

PROJECTNO. FGB FLECS

PAGE: 12 OF: 12

DRAWING NUMBER:

FGB 1,5 Kg H

REVISION

12-12-2023

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