

Ferlin

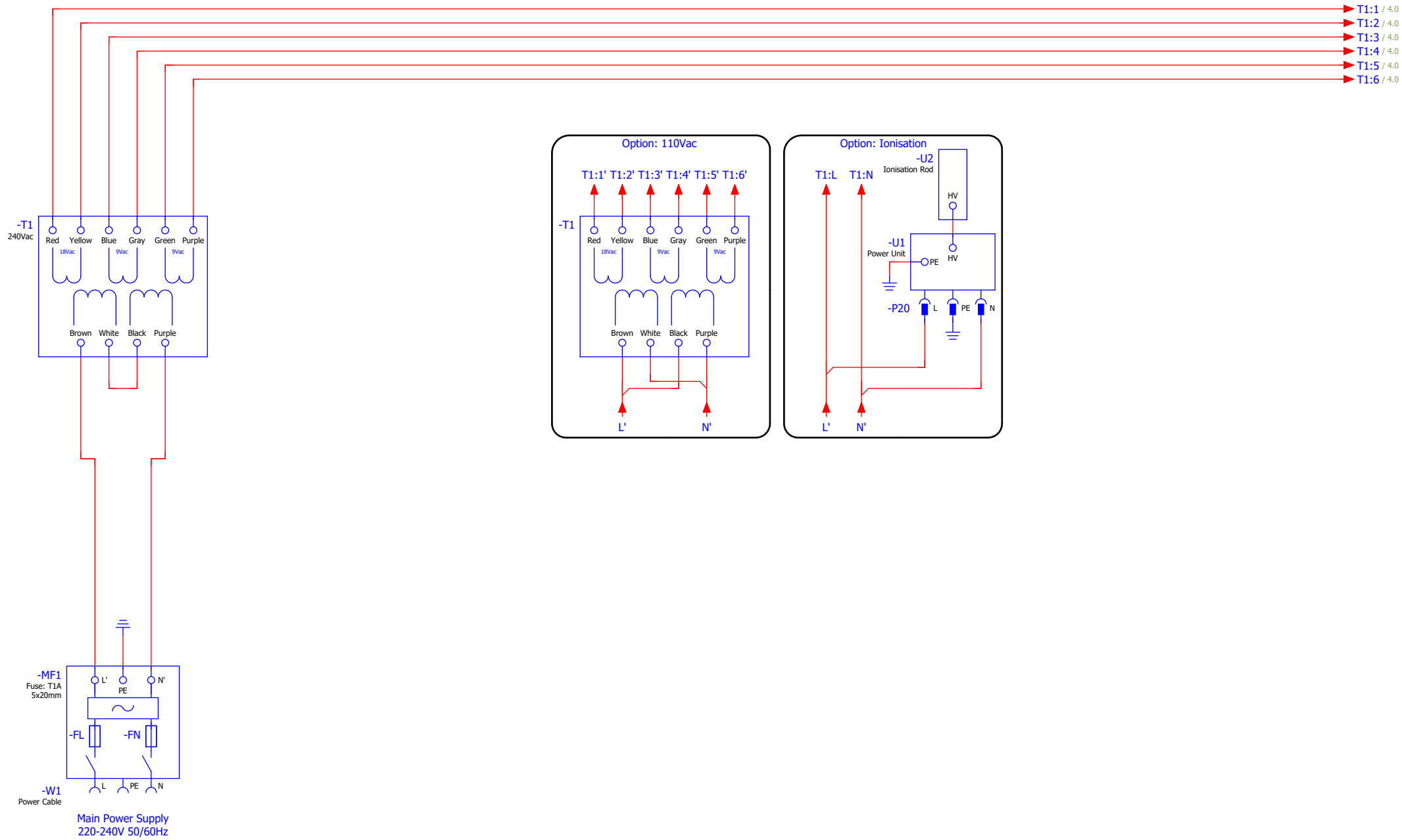


www.ferlinplastics.com

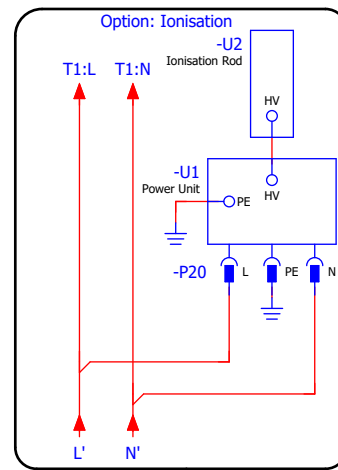
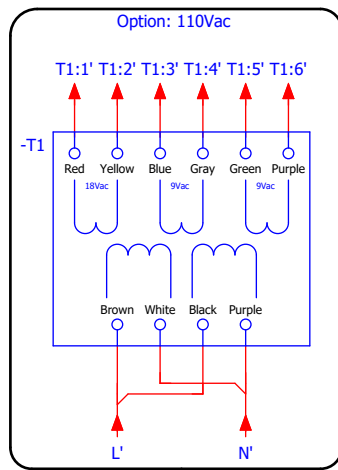


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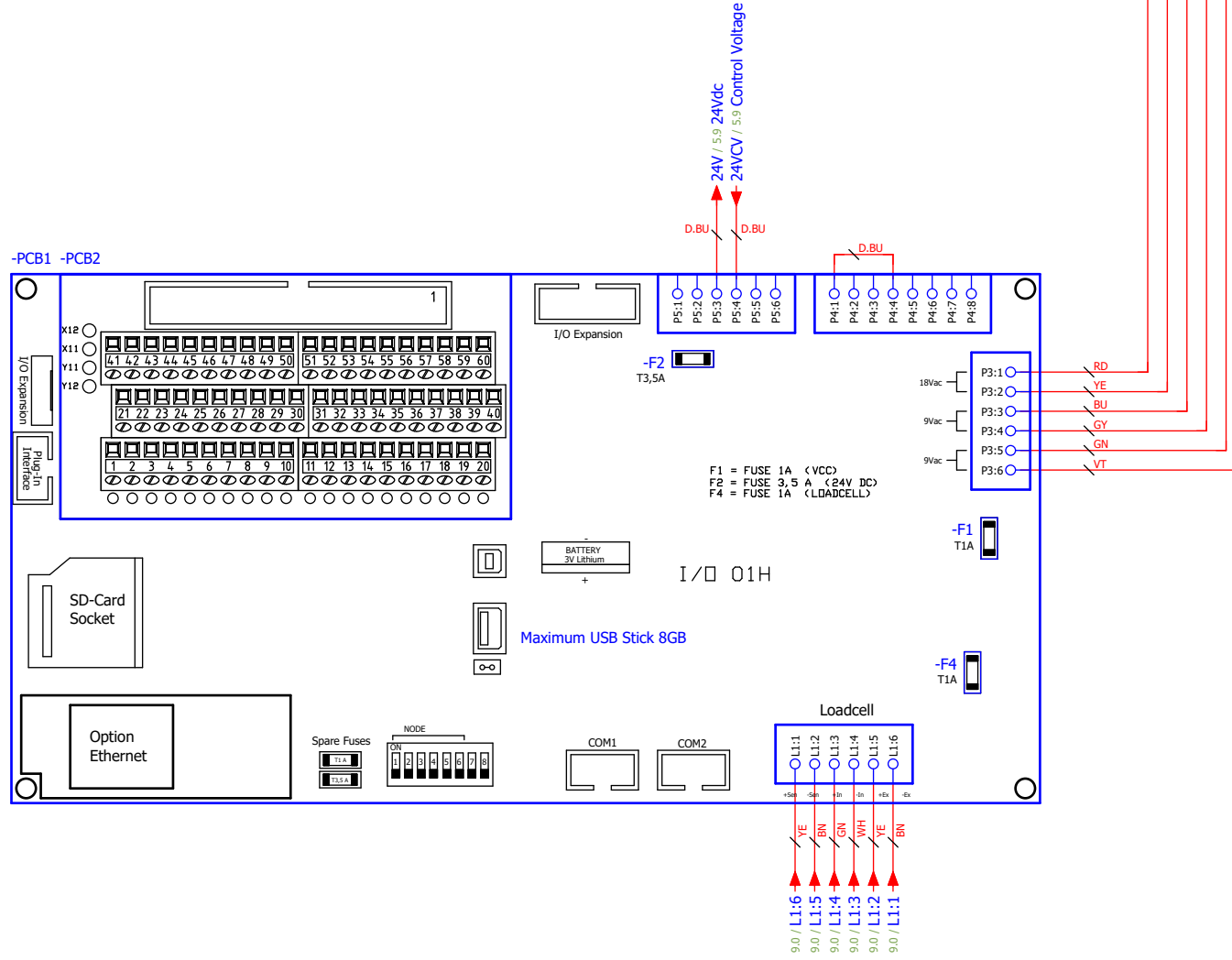
<p>Ferlin Gravimix FGB NECS</p>	<p>Colour Codes: BK = Black BN = Brown RD = Red OG = Orange YE = Yellow GN = Green BU = Blue VT = Violet GY = Gray WH = White PK = Pink TQ = Turquoise D.BU = Dark Blue GNYE = Green/Yellow</p>	<p>Component Designators*: C = Pneumatic Cilinder DR = Motor Driver F = Fuse H = Lamp K = Relay LS = Buzzer / Loudspeaker M = Motor P = Plug / Connector PCB = Printed Circuit Board PS = Power Supply R = Resistor S = Switch / Sensor V = Valve W = Cable/Wire U = Device X = Terminal Block</p> <p><small>*Not all designators may be used.</small></p>
<p>Voltage: 230V Frequency: 50/60 Hz</p>	<p>Common Colours: Black = Phase 100-240Vac Blue = Neutral Green/Yellow = Ground</p> <p>Dark Blue = 24Vdc White = 0Vdc Orange = Input Green = Output Red = Alarm Yellow = Switched 0Vdc</p> <p>All wires are 0,5mm² unless specified otherwise</p>	
<p>Created on 23-10-2024 Edit date 25-2-2025</p>	<p>by T. Drogd</p>	<p>Number of pages 19</p>

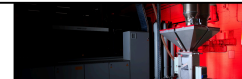
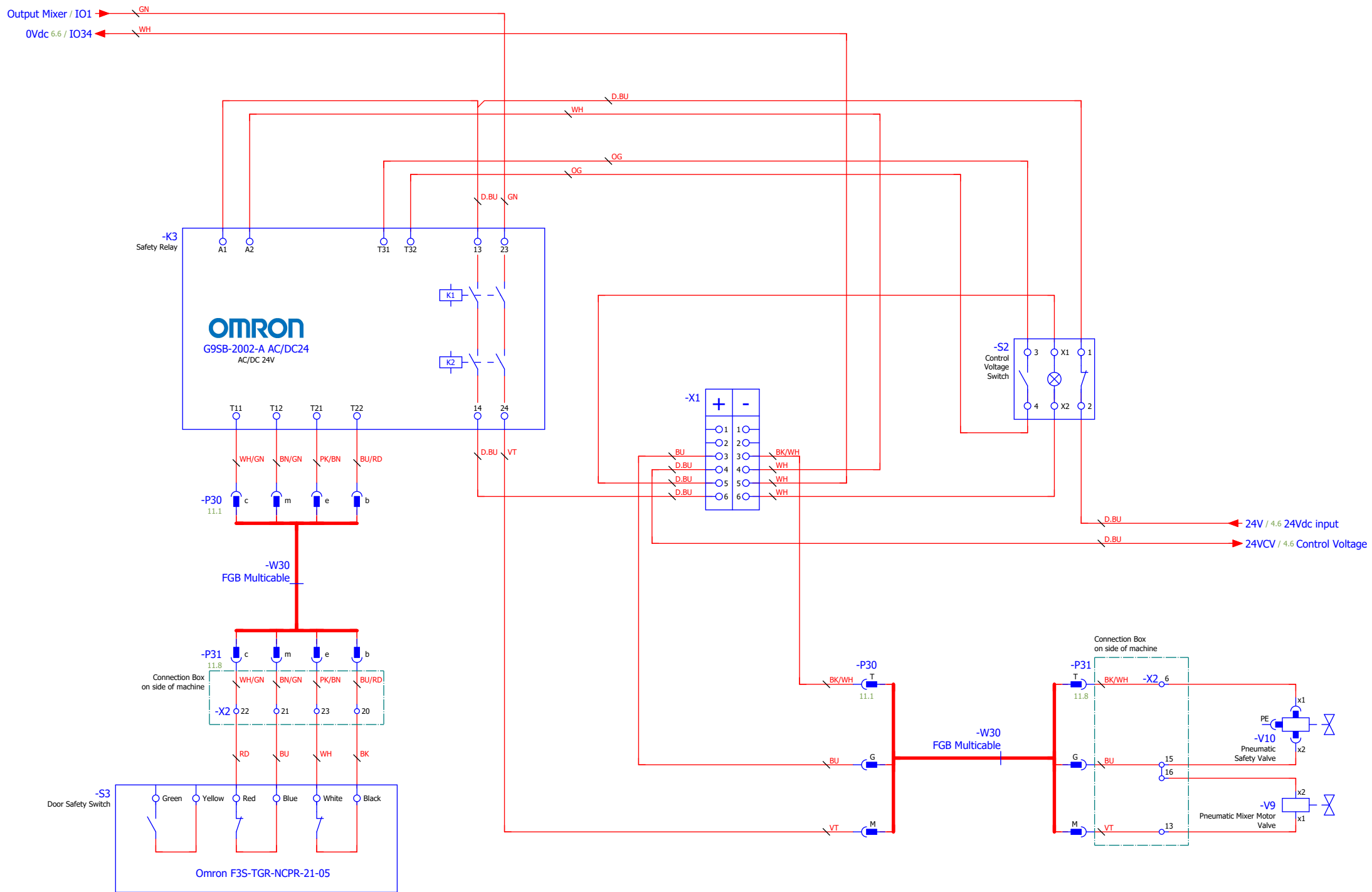


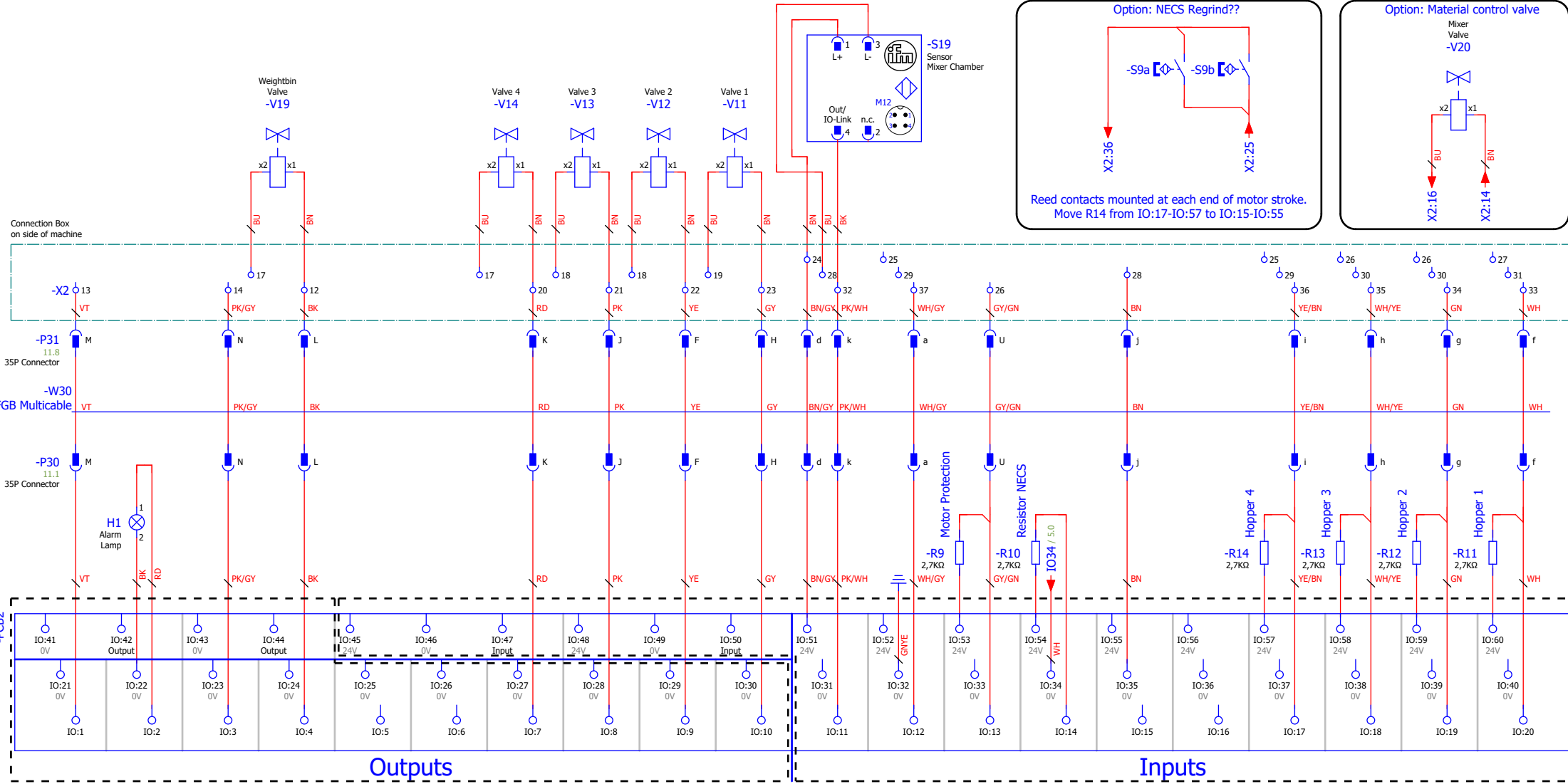
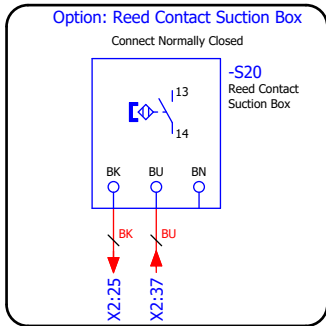
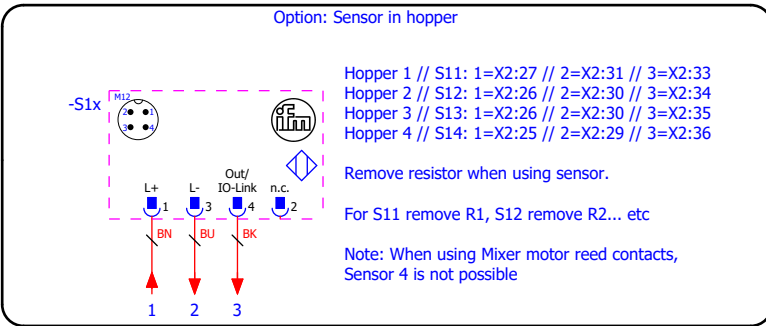
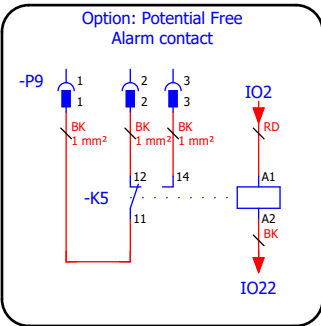
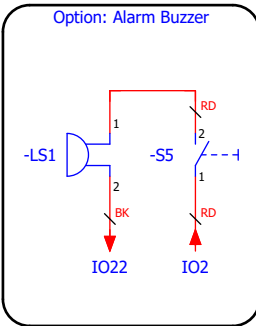
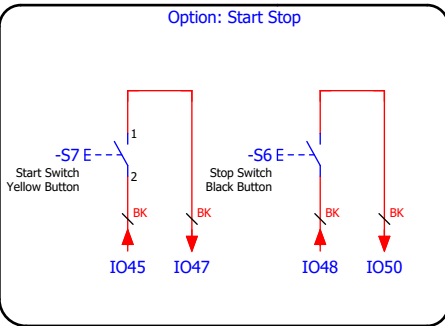
T1:1 / 4.0
 T1:2 / 4.0
 T1:3 / 4.0
 T1:4 / 4.0
 T1:5 / 4.0
 T1:6 / 4.0



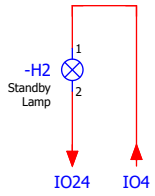
3.9 / T1:1
 3.9 / T1:2
 3.9 / T1:3
 3.9 / T1:4
 3.9 / T1:5
 3.9 / T1:6



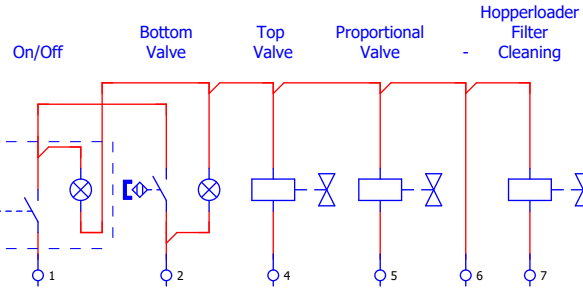




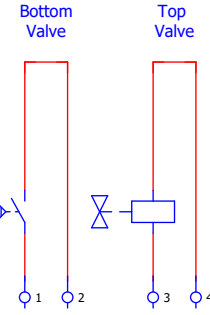
Option: Standby Lamp



Ferlin Hopperloader VC2xx & VC3xx & VC5xx

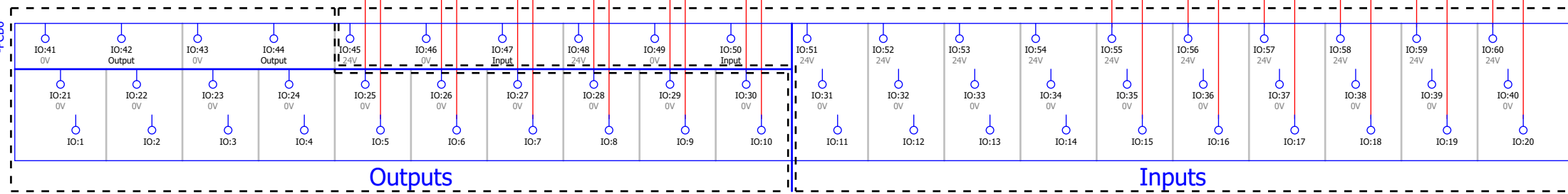
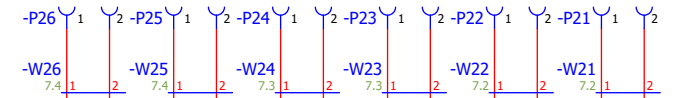
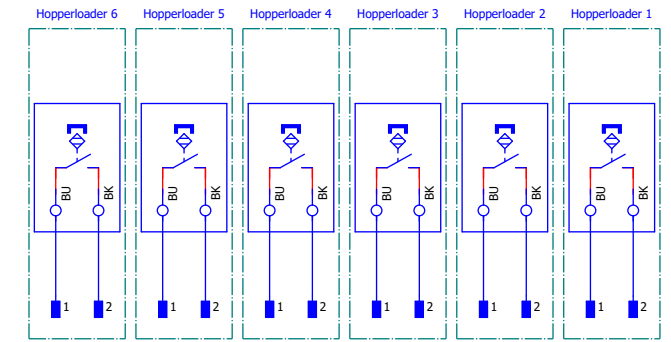
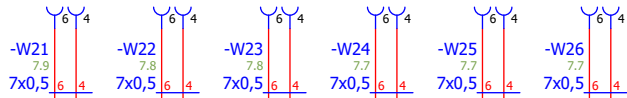
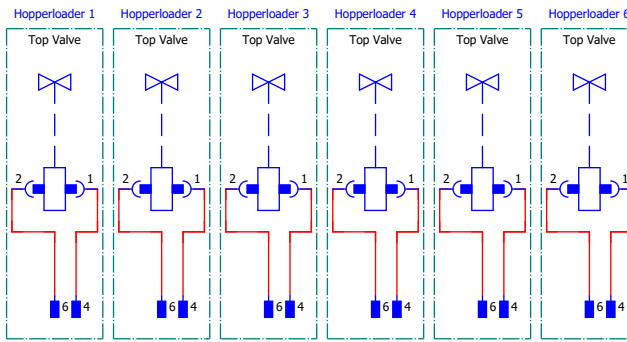
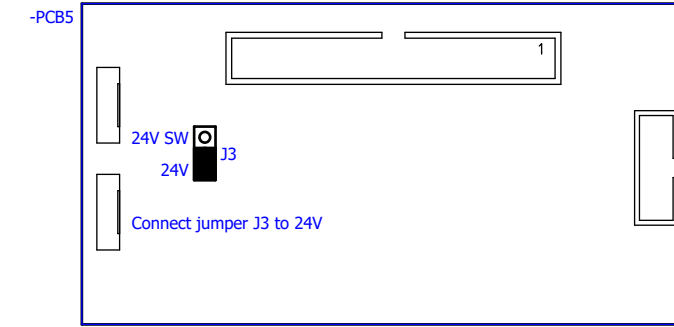
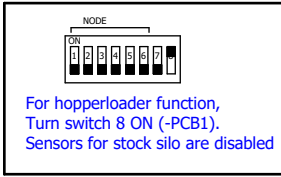


Ferlin Hopperloader VC1xx

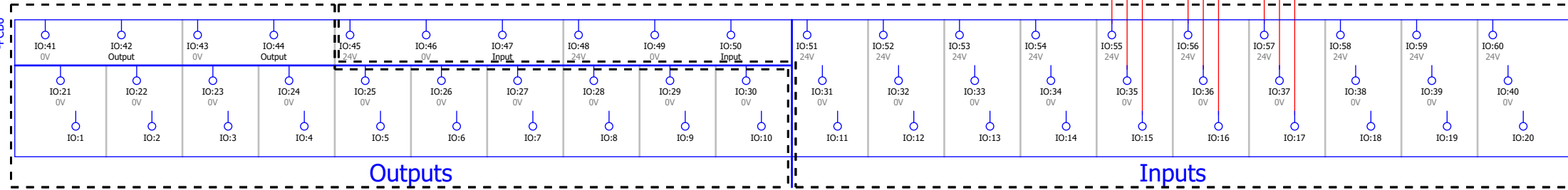
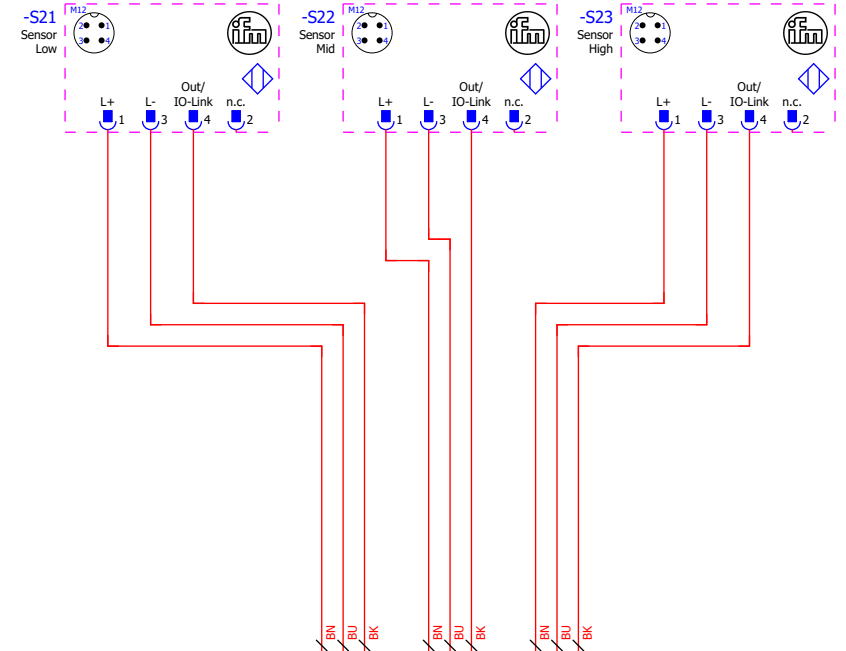
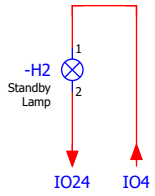


Current electrical diagram
Is made for connecting VC2xx & VC3xx & VC5xx

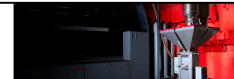
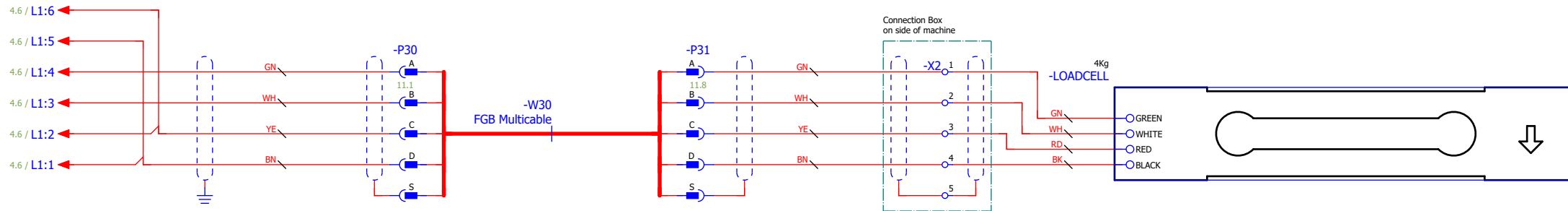
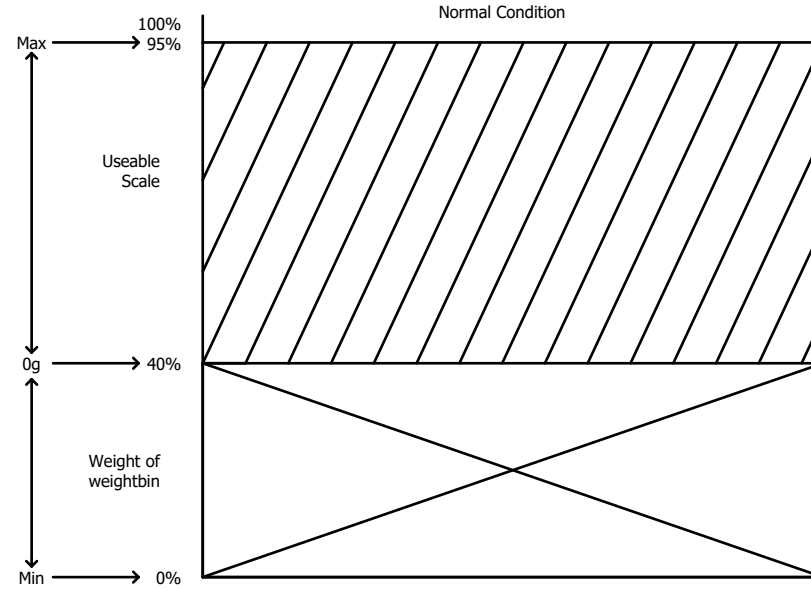
When you want to connect VC1xx, do the following:
Connector 1 -> 1
Connector 2 -> 2
Connector 4 -> 3
Connector 6 -> 4

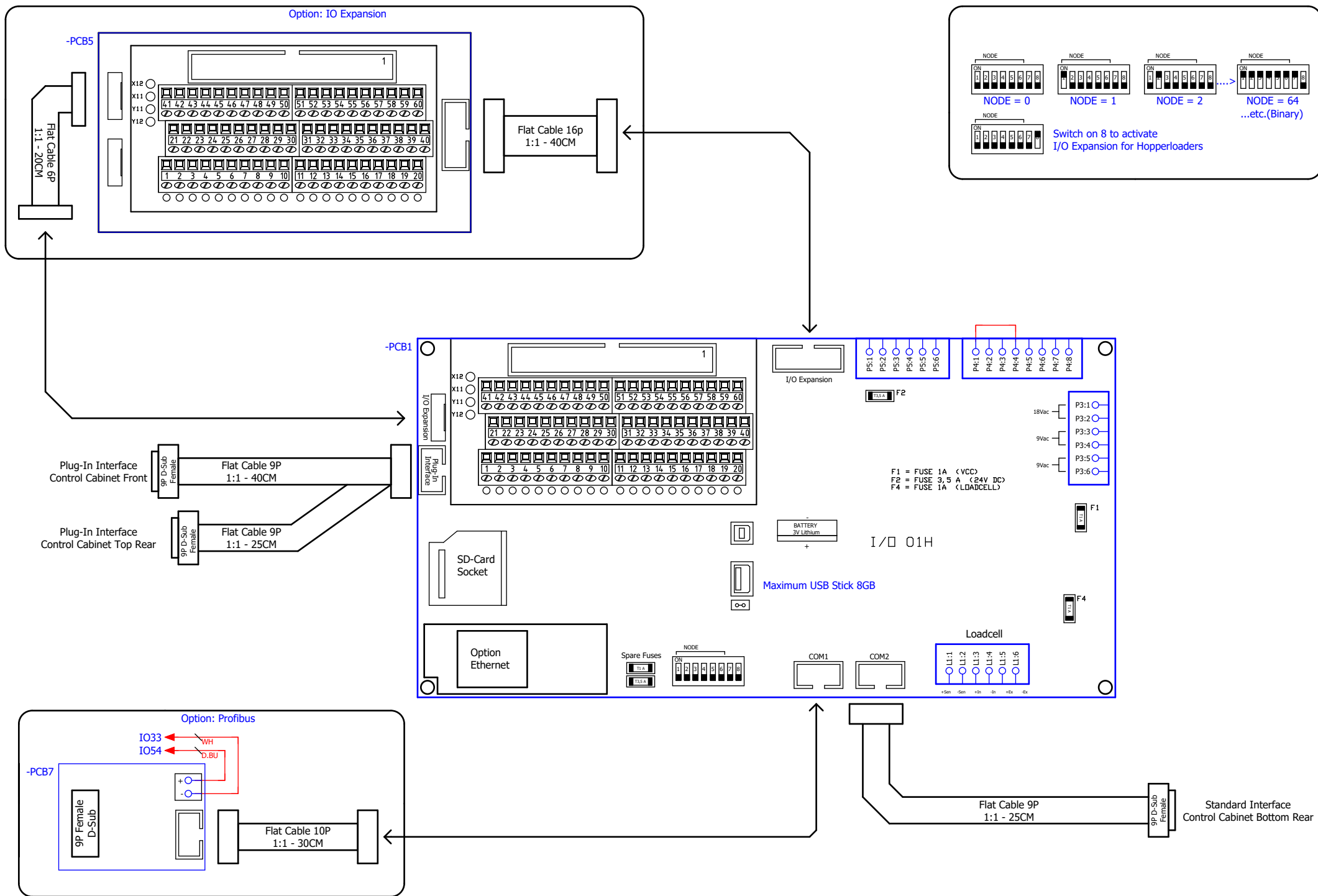


Option: Standby Lamp



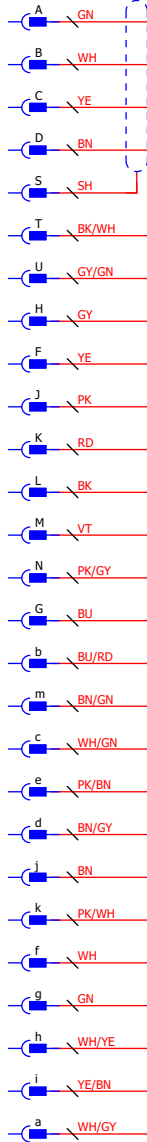
Loadcell Scale





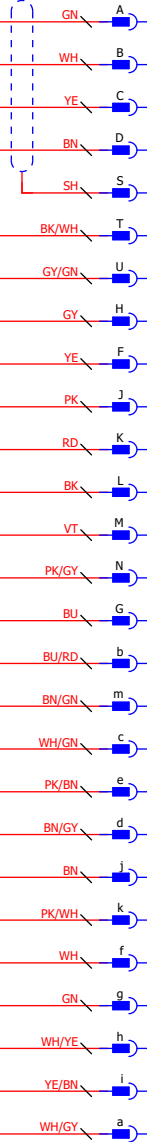
35P Connector Control Cabinet

-P30



35P Connector Machine Connection Box

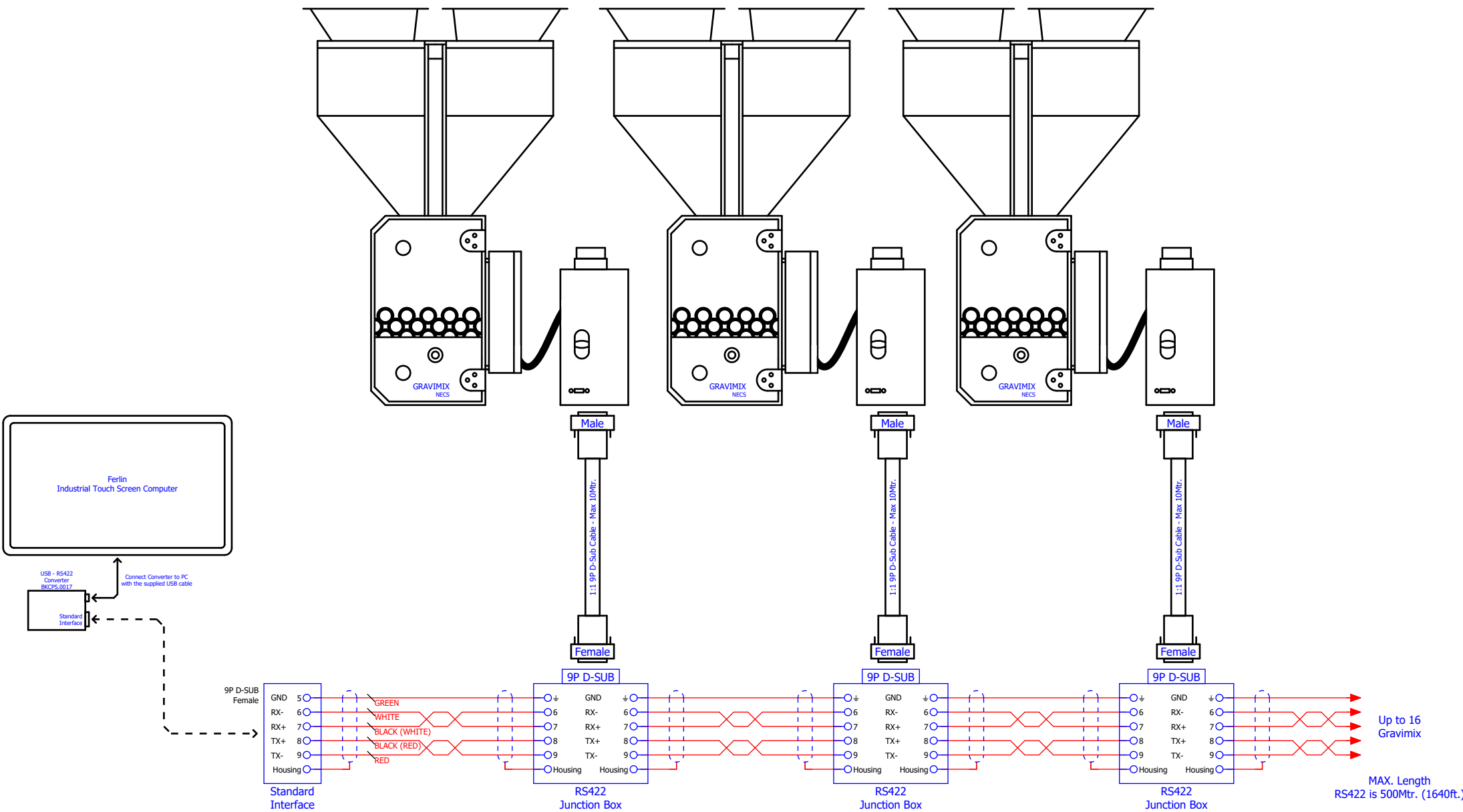
-P31



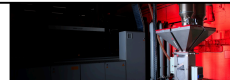
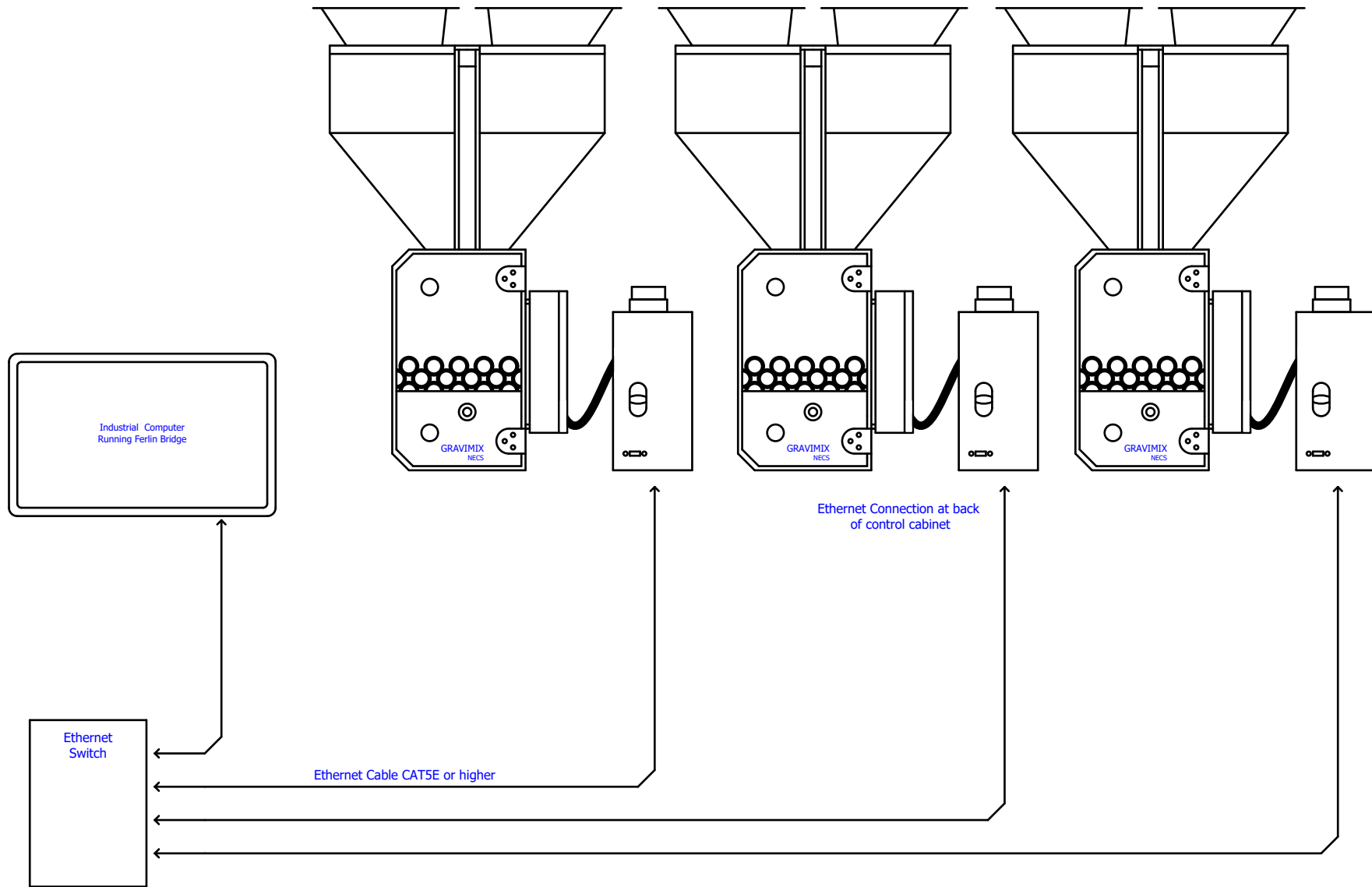
Multicable available in 3 lengths, 0,5M, 2M and 5M
See parts list for more information.



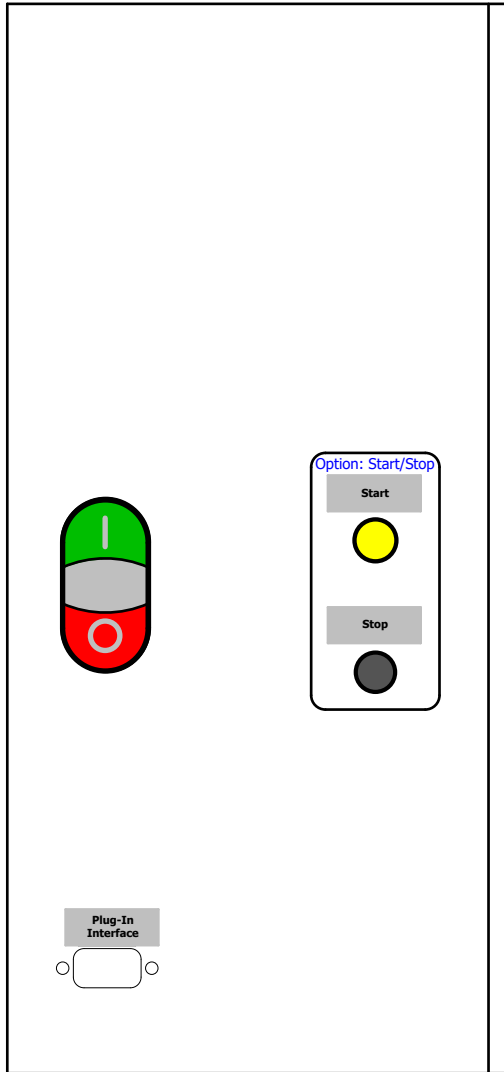
Standard Interface - Multiple Gravimix



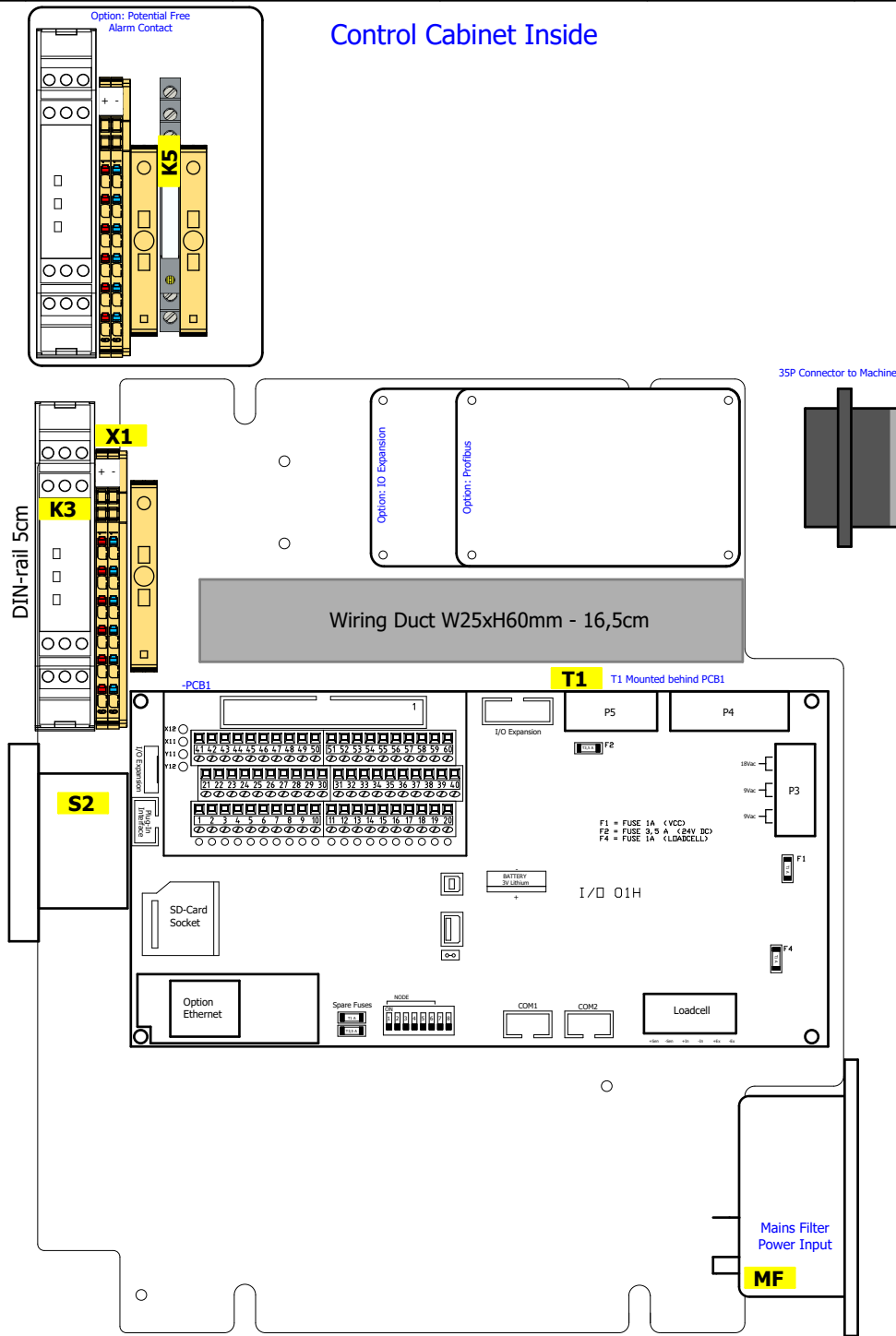
Ethernet Connection - Ferlin Bridge



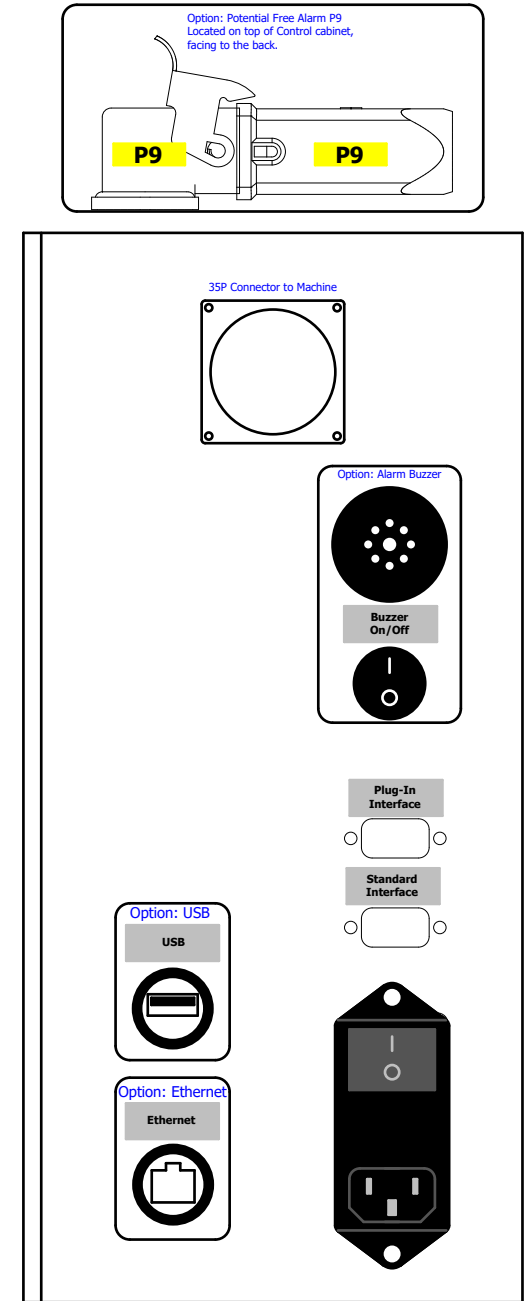
Control Cabinet Front



Control Cabinet Inside



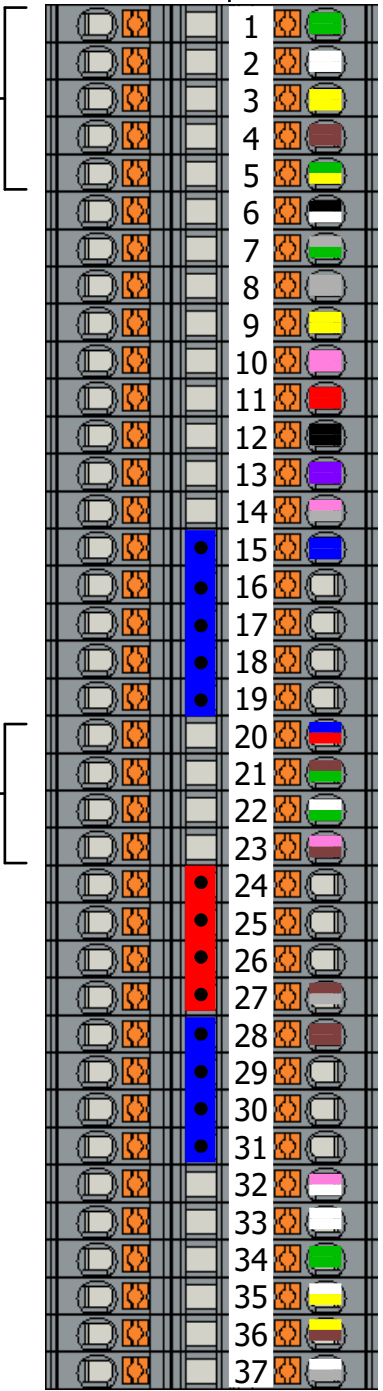
Control Cabinet Rear



Position in 35Pin Connector

Machine Loadcell

Door Safety Switch



- 1 A - Loadcell Green
- 2 B - Loadcell White
- 3 C - Loadcell Yellow
- 4 D - Loadcell Brown
- 5 S - Loadcell Shield
- 6 T - Safety Valve +
- 7 U - Motor Thermal
- 8 H - Vavle 1 (Gray)
- 9 F - Valve 2 (Yellow)
- 10 J - Valve 3 (Pink)
- 11 K - Valve 4 (Red)
- 12 L - Weightbin Valve (Black)
- 13 M - Pneumatic Mixer Motor (Purple)
- 14 N - Mixer Valve (Pink/Gray)
- 15 G - Valves 0Vdc (Blue)
- 16 -
- 17 - Weightbin Valve 0Vdc
- 18 - Pneumatic Mixer Motor 0Vdc
- 19 -
- 20 b - Door Safety Switch (Blue/Red)
- 21 m - Door Safety Switch (Brown/Green)
- 22 c - Door Safety Switch (White/Green)
- 23 e - Door Safety Switch (Pink/Brown)
- 24 -
- 25 -
- 26 - Sensor 24Vdc
- 27 d - Sensors 24Vdc (Brown/Gray)
- 28 j - Sensors 0Vdc (Brown)
- 29 - Sensor 0Vdc
- 30 -
- 31 -
- 32 k - Sensor Mixing Chamber (Pink/White)
- 33 f - Sensor Hopper 1* (White)
- 34 g - Sensor Hopper 2* (Green)
- 35 h - Sensor Hopper 3* (White/Yellow)
- 36 i - Sensor Hopper 4/Reed Contact Mixer Motor** (Yellow/Brown)
- 37 a - Sensor Suction Box* (White/Gray)

*Option
**Depending on options

Summarized parts list

Device Tag	Quantity	Description	Order Code
H1	1	Low Profile Xenon Beacon, Amber	01E40.80200
K3	1	Safety Relay Unit	01E34.G9SB2
LOADCELL	1	FGB NECS Loadcell set complete (from 2-2021)	01E01.99030
MF1	1	Mains Filter with fuses and main switch	01E49.76793
MF1-FL;MF1-FN	2	Fuse 5x20mm, 1AT	HA.00052
P30;P31	2	Female connector 35P	HA.00297
PCB1	1	Ferlin Gravimix main controller 01H	01E30.07037
PCB1-F1;PCB1-F4	2	SMD Fuse, 1AT	HA.00422
PCB1-F2	1	SMD Fuse, 3,5AT	HA.00423
PCB2	1	Gravimix I/O Board	01E30.10001
R9...R14	6	Carbon resistor, 2,7K, 0,25W, 5%	HA.00005
S2	1	Double actuator pushbutton, +indicator light, green I/white/red 0	01E31.60024
S2	1	Adapter for command devices Mounting adapter	01E31.60114
S2	1	Contact element, 1 N/C, front mount, 6. contact, screw connection	01E31.60116
S2	1	Contact element, 1N/O, front mount, 6. contact, screw connection	01E31.60115
S3	1	Safety switch, reed contact	01E34.R2105
S19	1	Capacitive sensor Connector: 1 x M12	HA.00463
T1	1	Toroidal transformer	01E37.1400P
V9;V11...V14;V19;V20	7	VQZ**2*, 1000/2000/3000 Series, 5 Port Solenoid Valve, Body Ported	01P69.5YO1Q



Options parts list

Device Tag	Quantity	Description	Order Code
K5	1	Option: Potential free alarm contact Interface Relay	HA.01103
LS1	1	Option: Acoustic alarm with Switch Acoustic alarm buzzer	01E32.71535
PCB5	1	Option: I/O Expansion Gravimix I/O Expansion Board	01E30.51400
PCB6	1	Option: I/O Expansion Gravimix I/O Board	01E30.10001
PCB7	1	Option: Profibus Profibus PCB for Gravimix	01E30.80001
S1x	1	Option: Sensor in hopper M18 Sensor KG5066 teach-in sensor	01E1R.G5066
S5	1	Option: Acoustic alarm with Switch Switch, on/off	HA.00310
S6	1	Option: Start/Stop Without Handheld Yellow momentary push button	01E32.50001
S7	1	Option: Start/Stop Without Handheld Black momentary push button	01E32.50003
S9a	1	Option: Mixer motor control Electric Solid State Switch Auto Switch Left	HA.00653
S9b	1	Option: Mixer motor control Electric Solid State Switch Auto Switch Right	HA.00651
S20	1	Option: Reed contact suction box	01E42.12220
U1	1	Option: Ionisation Ionisation Power Unit	01E1L.HP501
U2	1	Option: Ionisation Ionisation rod, 140mm	01E1L.0110B