



COVER SHEET
PROJECT HARDWARE DOCUMENTATION

Customer:

Project Name:

Personnel Safety Container (EU-Project)

P.O./Contract No.:

Cabinet number: Cabinet no.
Cabinet description: Cabinet Description

Document main index:

- 01. Cover Sheet 1
- 02. Legend 2
- 03. List of Content 3
- 04. Tag List 4
- 05. Bill of Material 5
- 06. Fuse List 6
- 07. Reference List 7-8
- 08. Cabinet Layout 9
- 09. Module Assignment 10-12
- 10. Power Distribution 13
- 11. Communications 14
- 12. Circuit Diagrams 15-33
- 100. Terminal Plan 34-41

PREP: X1: 62-CL 70/71 1 R 3
F10W 68/69 BL-5-BR
BV 7 18 OP/19 CL (13-14-16)
BV 2 22 OP/23 CL (17-18-20)
BV 7x2 OP/CL

Origo Solutions AS project history:
Project no. : Doc no. : Revision : Rev. description : Date :

Accepted	1	Accepted w/ comments	2	Met accepted	3	For information	4	Date	Sign	Personnel Safety Container (EU-Project)	Size	System code	Area code	Rev.	Sheet
01	Re-assessed for information			06.02.2017	WOME	KJTH	HAAL			Cover Sheet	Supplier Drawing No. 71410-XX-0001			01	1
00	Issued for information			04.07.2016	WOME	HAAL	HAAL			Cabinet no.	Drawing No. Client drw. no.				42
Rev	Revision			Date	Made	Check	Appr								



1	2	3	4	5	6	7	8
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The marking of the circuit diagrams, and the display and naming of the items, is done according to:
IEC 113/DIN 40719 and IEC 617/DIN EN 60617/DIN EN 60617/DIN 40900-12

Origo Solutions AS Drawing number

15xxx -XX -0001.001

project number

number according to SDRL

document continuation number (if applicable)

page or sheet number of drawing

Identification letters for items

- A: Combination of devices (construction modules)
C: Capacitors
D: Binary and memory elements (HIMA electronic units)
E: Thermostat, heaters, cabinet lighting, fan
F: Protection elements (fuses etc.)
G: Generators, power supplies (batteries)
H: Optic and acoustic annunciators (lamps, horns, loudspeakers)
K: Relays, contactors
L: Inductances
M: Motors
P: Test units, measuring units, programmer unit
PT: Pressure transmitter
Q: Circuit breaker
R: Resistors
S: Switches, push buttons
SH: Switches, push buttons with lamp
T: Transformers, current or voltage transformers
U: Converters, modulators
V: Diodes
W: Cable, busbar
X: Terminal rows, plug and socket devices, wall outlets
XG: Connecting block
Y: Solenoid valves
Z: Safety barrier, filter
ZS: Limit switches

NOTE:

Color code

All systems

- BK: Black - Power L-
BU: Blue - Crosswiring IS
GY: Grey - Cross wiring N-IS
RD: Red - Power L+/EL+
YE/GN: Yellow/green - Earth

H41q/H51q Cable plug

Color code

- BK: Black
BN: Brown
BU: Blue
GN: Green
GY: Grey
OG: Orange
PK: Pink
RD: Red
VT: Violet
WH: White
YE: Yellow
BN/GN: Brown/Green
BN/YE: Brown/Yellow
BN/GY: Brown/Grey
BN/PK: Brown/Pink
BN/BU: Brown/Blue
BN/RD: Brown/Red
BN/BK: Brown/Black
WH/BN: White/Brown
WH/BU: White/Blue
WH/GN: White/Green
WH/GY: White/Grey
WH/PK: White/Pink
WH/RD: White/Red
WH/YE: White/Yellow
GN/BK: Green/Black
GN/BU: Green/Blue
GN/GY: Green/Grey
GN/PK: Green/Pink
GN/RD: Green/Red
YE/GY: Yellow/Grey
YE/PK: Yellow/Pink

direction designation

example:

/500.4
-D1.10:d8

/200.4

sign for cross reference

page number of the drawing

section of the circuit diagram identifying the cross reference

-D1.10 :d8

sign for type, no., function

rack position (system no.)

unit's location in the rack

sign for connection

connect.-no. of the electronic unit

Indicates reference to other pages
/500.4
-D1.10:d8

direction designation, terminal strip

example:
-X1 5

- X 1 : 5

sign for type, no., function

sign for terminal strip

terminal strip no.

sign for connection

running no. of connection

Accepted	1	Accepted w/ comments	2	Not accepted	3	For information	4	Date:	Sign:	Personnel Safety Container (EU-Project)	Size	System code	Ann code	Rev.
01	Re-assessed for information			06.02.2017	NONE	KJTH	HAAL			Legend	Supplier Drawing No. 71410-XX-0001			01
00	Issued for information			04.07.2016	NONE	HAAL	HAAL				Drawing No.			Sheet 2
Rev.	Revision			Date	Make	Check	Appr.			Cabinet no.	Client drv. no.			Of 42

1		2		3		4		5		6		7		8	
Drawing number		Sheet	Sheet Revised	Revision	Date		Type of drawing		Title		Location				
Client drv. no.	/1			01	Re-issued for Information	06.02.2017	Cover Sheet				Cabinet no.				
Client drv. no.	/2			01	Re-issued for Information	06.02.2017	Legend				Cabinet no.				
Client drv. no.	/3			01	Re-issued for Information	06.02.2017	List of Content				Cabinet no.				
Client drv. no.	/4			01	Re-issued for Information	06.02.2017	Tag List				Cabinet no.				
Client drv. no.	/5			01	Re-issued for Information	06.02.2017	Bill of Material				Cabinet no.				
Client drv. no.	/6			01	Re-issued for Information	06.02.2017	Fuse List				Cabinet no.				
Client drv. no.	/7			01	Re-issued for Information	06.02.2017	Reference List				Cabinet no.				
Client drv. no.	/8			01	Re-issued for Information	06.02.2017	Reference List				Cabinet no.				
Client drv. no.	/9			01	Re-issued for Information	06.02.2017	Cabinet layout				Cabinet no.				
Client drv. no.	/10			01	Re-issued for Information	06.02.2017	Module Assignment				Cabinet no.				
Client drv. no.	/11			01	Re-issued for Information	06.02.2017	Module Assignment				Cabinet no.				
Client drv. no.	/12			01	Re-issued for Information	06.02.2017	Module Assignment				Cabinet no.				
Client drv. no.	/13	Revised		01	Re-issued for Information	06.02.2017	Power distribution			HIMatrix	Cabinet no.				
Client drv. no.	/14			01	Re-issued for Information	06.02.2017	Communication			HIMatrix	Cabinet no.				
Client drv. no.	/15	Revised		01	Re-issued for Information	06.02.2017	Circuit Diagrams			HIMatrix	Cabinet no.				
Client drv. no.	/16	Revised		01	Re-issued for Information	06.02.2017	Circuit Diagrams			HIMatrix	Cabinet no.				
Client drv. no.	/17	Revised		01	Re-issued for Information	06.02.2017	Circuit Diagrams			HIMatrix	Cabinet no.				
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Client drv. no.	/21	Revised		01	Re-issued for Information	06.02.2017	Circuit Diagrams			HIMatrix	Cabinet no.				
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Client drv. no.	/25	Revised		01	Re-issued for Information	06.02.2017	Circuit Diagrams			F3 DIO 8/8 01	Cabinet no.				
Client drv. no.	/26	Revised		01	Re-issued for Information	06.02.2017	Circuit Diagrams			F3 DIO 8/8 01	Cabinet no.				
Client drv. no.	/27	Revised		01	Re-issued for Information	06.02.2017	Circuit Diagrams			F3 DIO 8/8 01	Cabinet no.				
Client drv. no.	/28			01	Re-issued for Information	06.02.2017	Circuit Diagrams			F3 DIO 8/8 01	Cabinet no.				
Client drv. no.	/29	Revised		01	Re-issued for Information	06.02.2017	Circuit Diagrams			F3 DIO 8/8 01	Cabinet no.				
Client drv. no.	/30	Revised		01	Re-issued for Information	06.02.2017	Circuit Diagrams			F3 DIO 8/8 01	Cabinet no.				
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Client drv. no.	/34			01	Re-issued for Information	06.02.2017	Terminal Plan			-X1	Cabinet no.				
Client drv. no.	/35			01	Re-issued for Information	06.02.2017	Terminal Plan			-X1	Cabinet no.				
Client drv. no.	/36			01	Re-issued for Information	06.02.2017	Terminal Plan			-X2	Cabinet no.				
Client drv. no.	/37			01	Re-issued for Information	06.02.2017	Terminal Plan			-X2	Cabinet no.				
Client drv. no.	/38			01	Re-issued for Information	06.02.2017	Terminal Plan			-X3	Cabinet no.				
Client drv. no.	/39			01	Re-issued for Information	06.02.2017	Terminal Plan			-X3	Cabinet no.				
Client drv. no.	/40			01	Re-issued for Information	06.02.2017	Terminal Plan			-XE	Cabinet no.				
Client drv. no.	/41			01	Re-issued for Information	06.02.2017	Terminal Plan			-XG	Cabinet no.				
Client drv. no.	/42			01	Re-issued for Information	06.02.2017	Terminal Plan			-XH	Cabinet no.				

01 Re-issued for Information		06.02.2017	MOME	KJTH	HAAL	List of Content	Supplier Drawing No. 71410-XX-0001	Rev. 01
00 Issued for Information		04.07.2016	MOME	HAAL	HAAL			
Rev.	Revision	Date	Made	Check	Appt.	Cabinet no.	Client drv. no.	Sheet 3 Of 42

1		2		3		4		5		6		7		8	
Tag no.		Tag description		Sheet		Tag no.		Tag description		Sheet					
BSV01	Ball valve 1 PRP panel -Open	/15.F7		OTH15	System Fault 24V Output signal	/30.F7									
BSV02	Ball valve 1 PRP panel -Close	/15.F8		OTH16	Toxic gas ari lock 24V Output signal	/17.F4									
BSV03	Ball valve 2 PRP panel -Open	/16.F2		OTH17	flammable gas air lock	/17.F5									
BSV04	Ball valve 2 PRP panel -Close	/16.F2		OTH18	Toxic gas technical Room	/17.F6									
BSW01	Open valve 1 & 2 Air from Bottle Bank	/26.B5		OTH19	Toxic gas h2s filter	/17.F7									
BSW02	Close valve 1 & 2 Air from Bottle Bank	/26.B7		OTH20	Fire muster and airflow	/17.F8									
DAL01	Beacon in Muster Area	/18.B2		OTH21	Fire Technical Room	/24.F2									
DAL02	Beacon/sounder In Air lock	/18.B3													
DAL03	Beacon Technical Room	/18.B3													
DAL04	Beacon in Muster Area	/18.B4													
DAL05	Beacon In Air lock	/18.B5													
DAL06	Beacon Technical Room	/18.B6													
DAS01	Sounder in Air lock	/18.B7													
DGH01	Flammable H2 gas UPS	/19.F3													
DPT01	Pressure in Air Lock	/19.F7													
DPT02	Pressure in Muster Area	/20.F3													
DPT03	Pressure in Technical Room	/20.F7													
DSL01	Door Status Light 1	/27.B2													
DSL02	Door Status Light 2	/27.B4													
DSL03	Door Status Light 3	/27.B5													
DSL04	Door Status Light 4	/27.B7													
DTT01	Temperature in Muster Area	/21.F3													
DTT02	Temperature in Technical Room	/21.F7													
EDS01	Door from Outside to Airlock	/16.F3													
EDS02	Door from Airlock to Muster Area	/16.F4													
FDS01	Damper in Air-lock Air Outlet- Open	/15.F2													
FDS02	Damper in Air-lock Air Outlet- Close	/15.F2													
FDS03	Damper 1 Technical Room Air inlet- Open	/15.F3													
FDS04	Damper 1 Technical Room Air inlet- Close	/15.F4													
FDS05	Damper Air intake Air inlet- Open	/15.F5													
FDS06	Damper Air intake Air inlet- Close	/15.F6													
FGD01	Open Damper in Air Inlet	/18.B8													
FGD02	Open Damper in Air Outlet	/26.B2													
FGD03	Open Damper in Airlock	/26.B4													
OTH01	General Alarm from HVAC	/16.F5													
OTH02	General Alarm from UPS	/16.F6													
OTH05	Status PRP cabinet Air flow	/22.F3													
OTH06	Status PRP cabinet Air pressure	/22.F7													
OTH07	Status Purafil H2S Filter	/16.F7													
OTH08	Shut down HVAC	/31.B2													
OTH09	Shut down Compressor 1	/31.B4													
OTH10	Shut down Main Distr.Board	/31.B5													
OTH11	Shut down UPS unit from UPS	/31.B7													
OTH12	Gas air intake HH 24V Output signal	/30.F2													
OTH13	Toxic gas muster Room HH 24V Output signal	/30.F4													
OTH14	Flammable gas muster/technical Room HH 24V Output	/30.F5													

Accepted 1		Accepted w/ comments 2		Met accepted 3	For information 4		Date		Sgn		Personnel Safety Container (EU-Project)				Size		System code		Area code		
01	Re-issued for information	06.02.2017		MOME	KLTH	HAAL			Tag List		Supplier Drawing No. 71410-XX-0001				Drawing No.		Rev. 01		Sheet 4		
00	Issued for information	04.07.2016		MOME	HAAL	HAAL			Cabinet no.				Client drw. no.				Or 42				
Rev		Revision		Date		Made		Check		Appr.											



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												Size	System code	Area code
01	Reissued for Information				06.02.2017	MONIE	KJTH	HAAL			Supplier Drawing No. 71410-XX-0001		Rev.	01
00	Issued for Information				04.07.2016	MONIE	HAAL	HAAL			Drawing No.		Sheet	5
Rev.	Revision				Date	Made	Check	Appr.			Cabinet no.	Client drw. no.	Of	42

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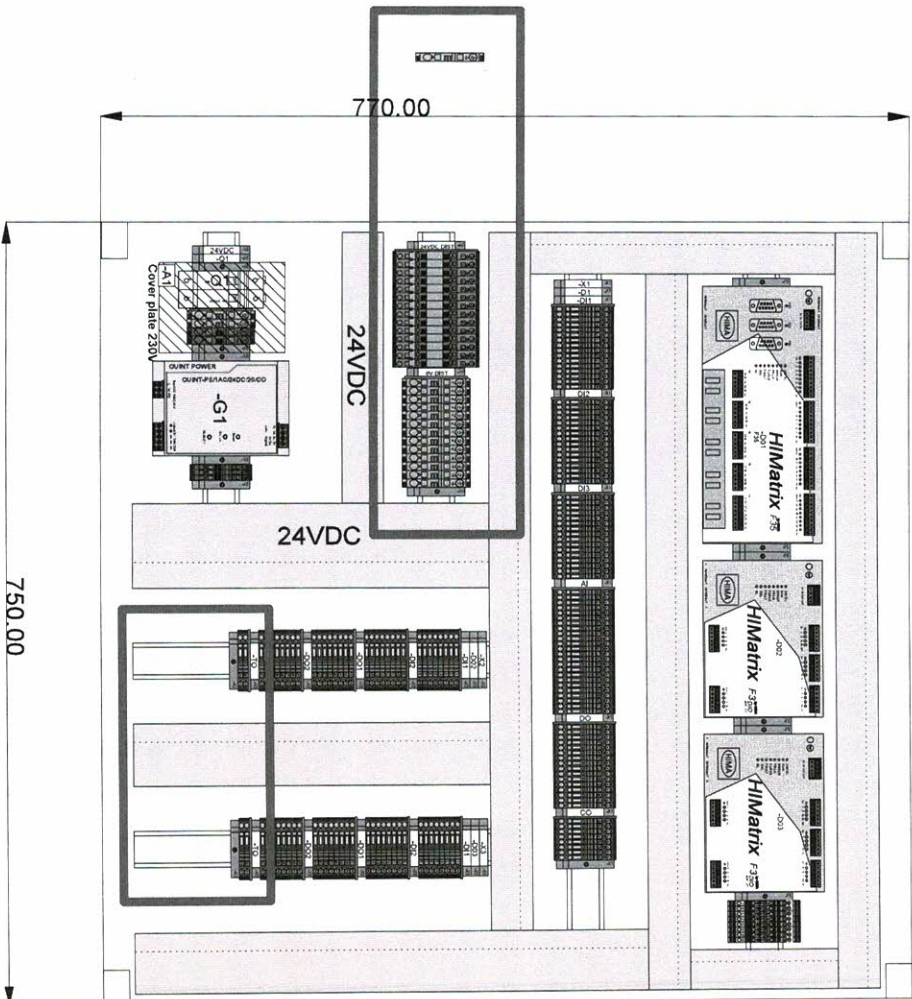
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Comp. tag	Description	Supplier	Component	Tech. data	EAN-no/EI-no	Sheet									
-CD1	Cable Duct 40x80 Grey	PlanetWatthom	Cable Duct 40x80 Grey		31056	/9.B2									
-CD2	Cable Duct 40x80 Grey	PlanetWatthom	Cable Duct 40x80 Grey		31056	/9.C5									
-CD3	Cable Duct 40x80 Grey	PlanetWatthom	Cable Duct 40x80 Grey		31056	/9.C2									
-CD6	Cable Duct 40x80 Grey	PlanetWatthom	Cable Duct 40x80 Grey		31056	/9.D2									
-CD8	Cable Duct 60x80 Grey	PlanetWatthom	Cable Duct 60x80 Grey		31057	/9.F5									
-CD10	Cable Duct 40x80 Grey	PlanetWatthom	Cable Duct 40x80 Grey		31056	/9.E2									
-CD11	Cable Duct 80x80 Grey	PlanetWatthom	Cable Duct 80x80 Grey		31058	/9.D3									
-CD13	Cable Duct 60x80 Grey	PlanetWatthom	Cable Duct 60x80 Grey		31057	/9.F4									
-CD14	Cable Duct 40x80 Grey	PlanetWatthom	Cable Duct 40x80 Grey		31056	/9.D2									
-D01	HIMatrix F35	HIMA	F35	24 DI/8 DO/8 AI/2 CO	98 2200473	/15.H1									
-D02	HIMatrix F3 DIO 8/8 01	HIMA	F3 DIO 8/8 01	F3 DIO 8/8 01	98 2200487	/24.H1									
-D03	HIMatrix F3 DIO 8/8 01	HIMA	F3 DIO 8/8 01	F3 DIO 8/8 01	98 2200487	/29.H1									
-G1	Phoenix Contact power supply	Phoenix Contact	QUINT-PS/1AC/24DC/20/CO	w/ Coating	2320898	/13.F1									
-GR2	Ground Rail PE	Rittal	Ground Rail PE		NOSV 2612	/9.E5									
-GR3	Ground Rail IE	Rittal	Ground Rail IE		NOSV 2612	/9.E8									
-MO1	DIN rail	Rittal	TS-35/15		2313150	/9.C2									
-MO3	DIN rail	Rittal	TS-35/15		2313150	/9.D2									
-MO8	DIN rail	Rittal	TS-35/15		2313150	/9.F2									
-MO10	DIN rail	Rittal	TS-35/15		2313150	/9.D3									
-MO11	DIN rail	Rittal	TS-35/15		2313150	/9.D2									
-MO12	DIN rail	Rittal	TS-35/15		2313150	/9.D4									
-PE	Stopper (6)	Weidmüller	WEWn35/2		4008190030230	/9.C2									
-Q1	Bipolar power switch C60H 16A C	Schneider	C60H/C 16-2		24987	/13.C1									
-R1	Z7301 250 Ohm Shunt	HIMA	Z7301		98 2220059	/19.F3									
-R2	Z7301 250 Ohm Shunt	HIMA	Z7301		98 2220059	/19.F7									
-R3	Z7301 250 Ohm Shunt	HIMA	Z7301		98 2220059	/20.F3									
-R4	Z7301 250 Ohm Shunt	HIMA	Z7301		98 2220059	/20.F7									
-R5	Z7301 250 Ohm Shunt	HIMA	Z7301		98 2220059	/21.F3									
-R6	Z7301 250 Ohm Shunt	HIMA	Z7301		98 2220059	/21.F7									
-R7	Z7301 250 Ohm Shunt	HIMA	Z7301		98 2220059	/22.F3									
-R8	Z7301 250 Ohm Shunt	HIMA	Z7301		98 2220059	/22.F7									
-X1	Group marker, Cover 33.3x8mm (8)	Weidmüller	WAD 8 MC NE WS		4032248891825	/9.D2									
-X2	Terminal End plate 1.5mm (6)	Weidmüller	WAP 2.5-10		3039105000	/9.D2									
	Stopper (9)	Weidmüller	WEWn35/2		4008190030230	/9.D2									
	Terminal WTR 2.5 mm2 (96)	Weidmüller	WTR2.5+SB2.3		4032248458301	/15.E1									
-X2	Group marker, Cover 33.3x8mm (7)	Weidmüller	WAD 8 MC NE WS		4032248891825	/9.D3									
	Terminal End plate 1.5mm (5)	Weidmüller	WAP 2.5-10		3039105000	/9.D3									
	Stopper (8)	Weidmüller	WEWn35/2		4008190030230	/9.D3									
-X3	Terminal WTR 2.5 mm2 (34)	Weidmüller	WTR2.5+SB2.3		4032248458301	/24.E2									
	Group marker, Cover 33.3x8mm (7)	Weidmüller	WAD 8 MC NE WS		4032248891825	/9.D4									
	Terminal End plate 1.5mm (5)	Weidmüller	WAP 2.5-10		3039105000	/9.D4									
-X3	Stopper (8)	Weidmüller	WEWn35/2		4008190030230	/9.D4									
	Terminal WTR 2.5 mm2 (34)	Weidmüller	WTR2.5+SB2.3		4032248458301	/29.E2									
	Group marker, Cover 33.3x8mm (2)	Weidmüller	WAD 8 MC NE WS		4032248891825	/9.F2									
-XE	Terminal WDU 6 (2)	Weidmüller	WDU 6	6 mm²	4008190163440	/13.C1									
	Stopper (4)	Weidmüller	WEWn35/2		4008190030230	/9.F2									

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1		2		3		4													
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Rev.		Revision		Date		Made		Check		Appr.		Cabinet no.		Client drw. no.				Of	
																		42	

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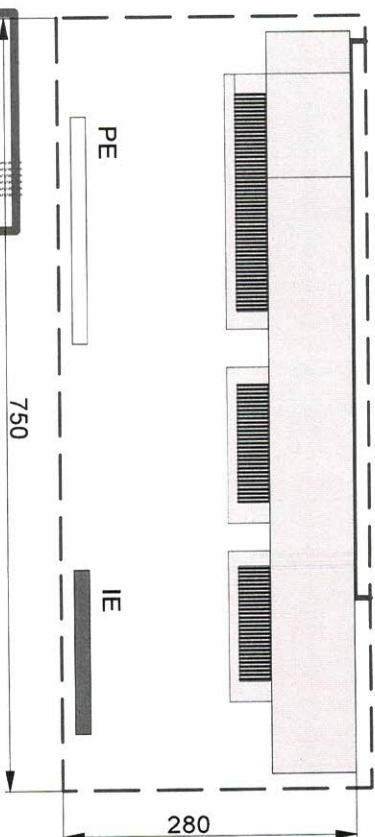
1	2	3	4	5	6	7	8
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Front view
Mountingplate



Note: HIMatrix DIN rail to be mounted on 40mm spacers

Top View



Plasering av komponenter
Type relay ?

Note: Cable screens to be terminated in cable glands

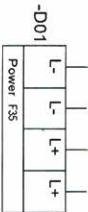
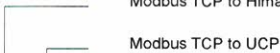
Accepted	1	Accepted w/ comments	2	Not accepted	3	For information	4	Date:	Sign:	Personnel Safety Container (EU-Project)	Cabinet layout	Size	System code	Ann code	Rev.	01
01	Re-issued for information		06.02.2017	WOME	KJTH	HAAL						Supplier Drawing No.	71410-XX-0001		Rev.	01
00	Issued for information		04.07.2016	WOME	HAAL	HAAL						Drawing No.			Sheet	9
Rev.	Revision		Date	Made	Check	Appr.					Cabinet no.	Client drw. no.			Of	42

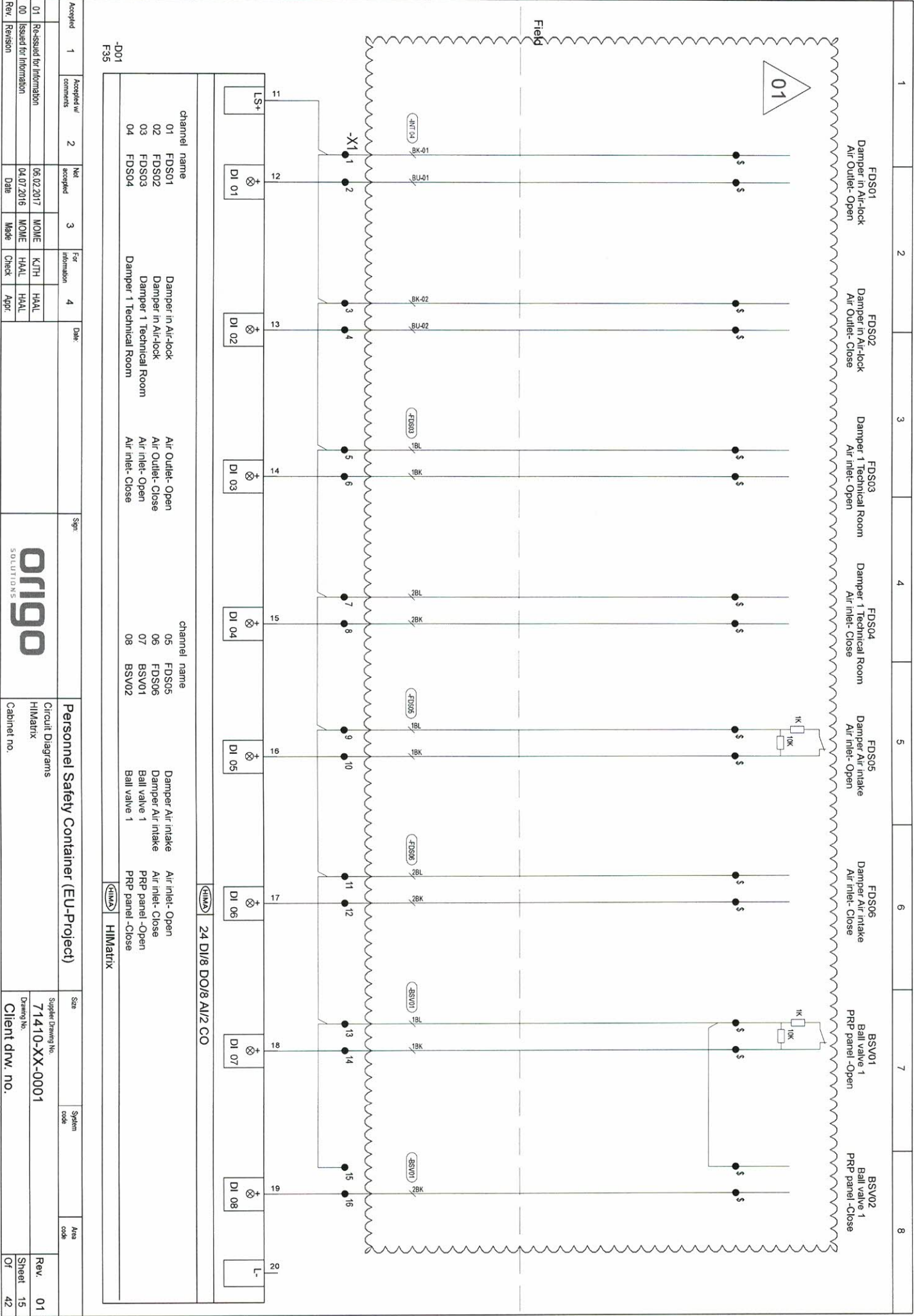
1	2	3	4	5	6	7	8
	Channel	DI 20/24	DO 8/ 8	AI 8/ 8	CO 0/ 2		
F35							
-D01	01	FDS01 Damper in Air-lock	DAL01 Beacon	DGH01 Flammable H2 gas	SPARE		
-D01	02	FDS02 Damper in Air-lock	DAL02 Beacon/sounder	DPT01 Pressure in	SPARE		
-D01	03	FDS03 Damper 1 Technical Room	DAL03 Beacon	DPT02 Pressure in			
-D01	04	FDS04 Damper 1 Technical Room	DAL04 Beacon	DPT03 Pressure in			
-D01	05	FDS05 Damper Air intake	DAL05 Beacon	DTT01 Temperature			
-D01	06	FDS06 Damper Air intake	DAL06 Beacon	DTT02 Temperature			
-D01	07	BSV01 Ball valve 1	DAS01 Sounder	OTH05 Status PRP cabinet			
-D01	08	BSV02 Ball valve 1	EGD01 Open Damper	OTH06 Status PRP cabinet			
-D01	09	BSV03 Ball valve 2					
-D01	10	BSV04 Ball valve 2					
-D01	11	EDS01 Door from					
-D01	12	EDS02 Door from					
-D01	13	OTH01 General Alarm					
-D01	14	OTH02 General Alarm					
-D01	15	OTH07 Status Purall					
-D01	16	SPARE					
-D01	17	SPARE					
-D01	18	SPARE					
-D01	19	SPARE					
-D01	20	OTH16 Toxic gas air lock					
-D01	21	OTH17 flammable gas air lock					
-D01	22	OTH18 Toxic gas technical Room					
-D01	23	OTH19 Toxic gas h2s filter					
-D01	24	OTH20 Fire muster and airtack					

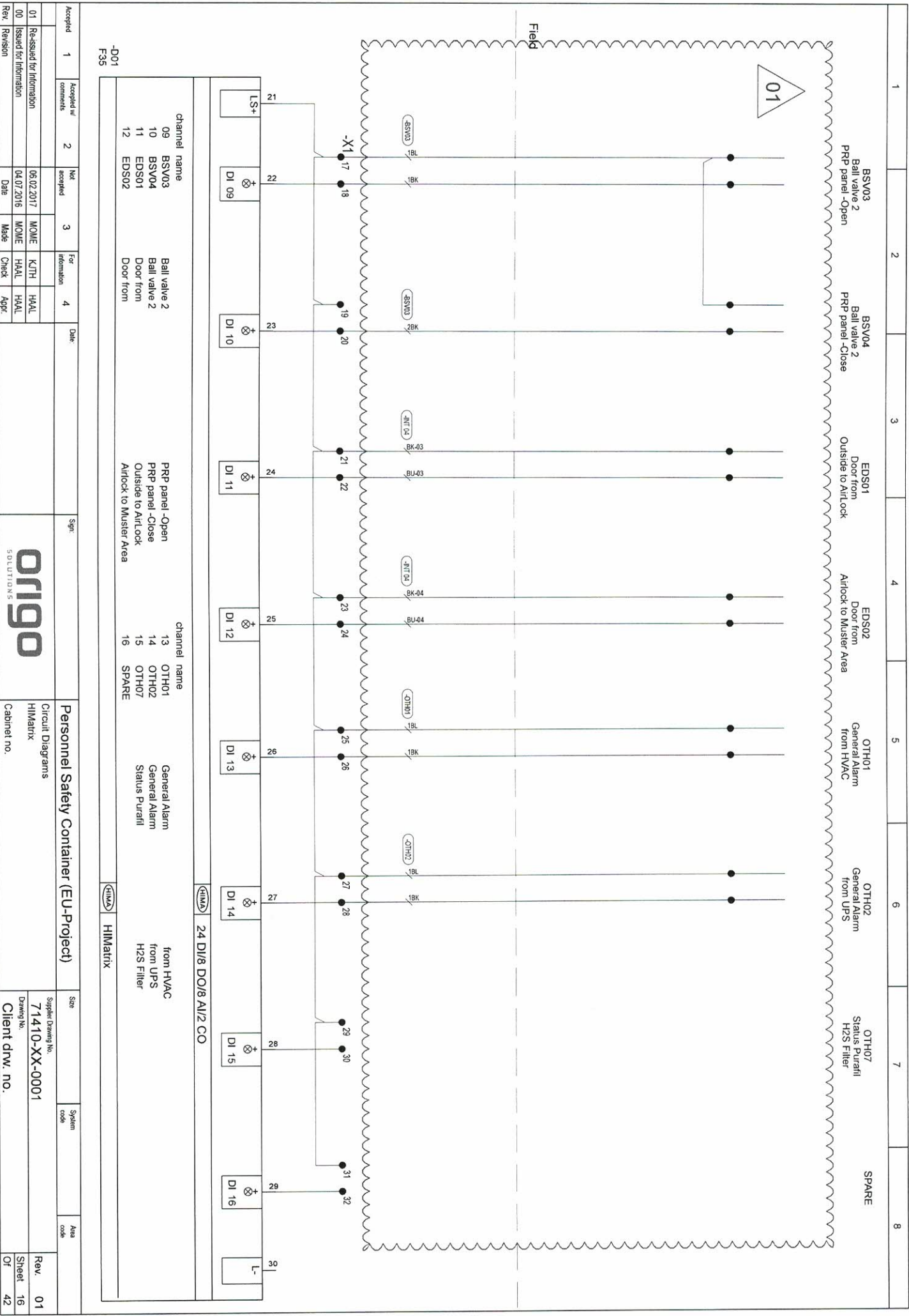
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01	Re-issued for Information		06.02.2017	MOHE	KJH	HAAL				Module Assignment	Supplier Drawing No.			01
00	Issued for Information		04.07.2016	MOHE	HAAL	HAAL					Drawing No.			Sheet
Rev.	Revision		Date	Made	Check	Appr.				Cabinet no.	Client drw. no.			OR 42

[illegible]

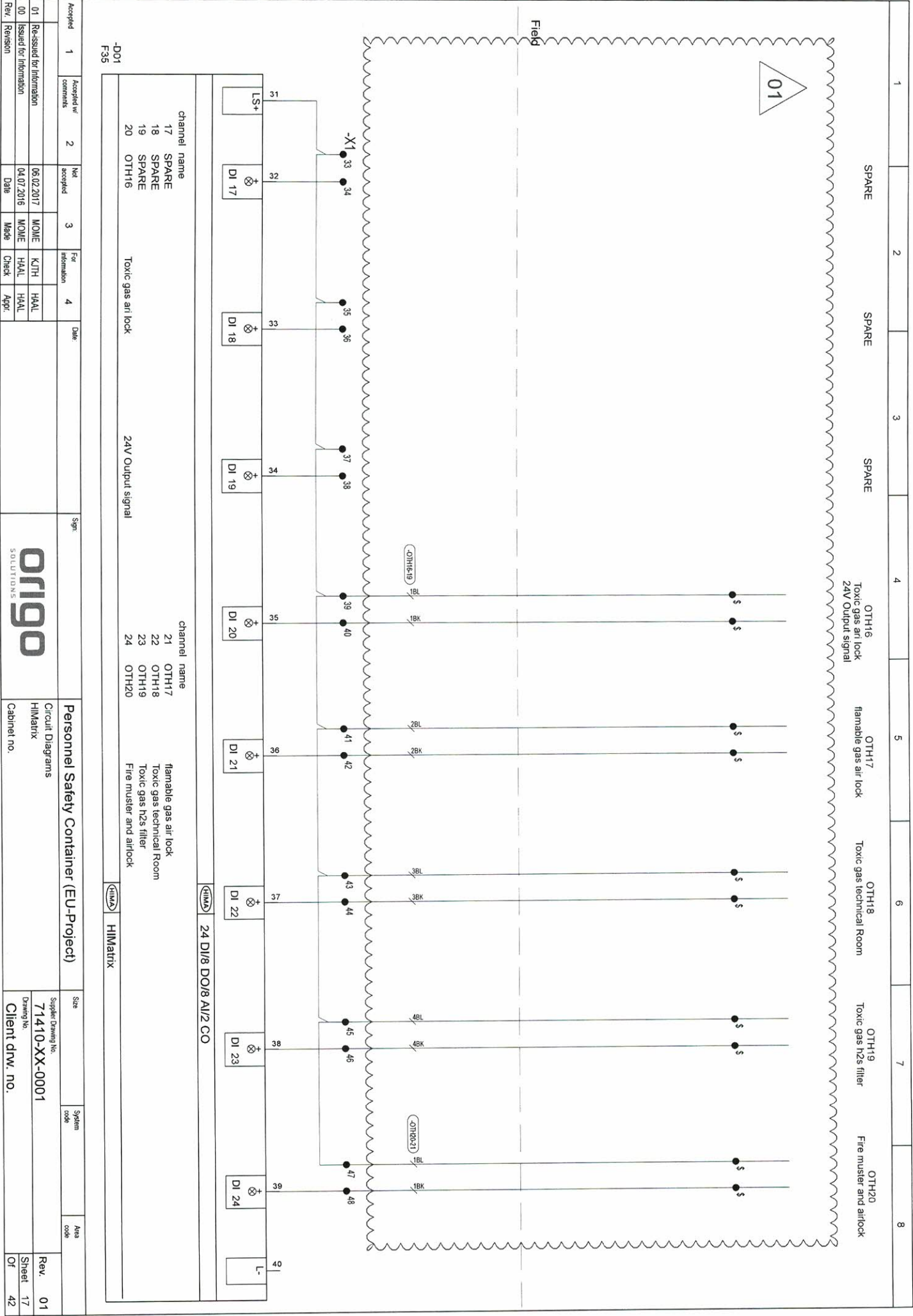
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F3 DIO 8/8 01		Channel	DI 4/ 8	DO 4/ 8	TO 0/ 2										
-D03	01	SPARE		OTH08 Shut down	/31.B2	SPARE									
-D03	02	SPARE		OTH09 Shut down	/31.B4	SPARE									
-D03	03	SPARE		OTH10 Shut down	/31.B5										
-D03	04	SPARE		OTH11 Shut down	/31.B7										
-D03	05	OTH12 Gas air intake HH			/30.F2	SPARE									
-D03	06	OTH13 Toxic gas muster Room HH			/30.F4	SPARE									
-D03	07	OTH14 Flammable gas muster/technical Room HH			/30.F5	SPARE									
-D03	08	OTH15 System Fault			/30.F7	SPARE									
							</								

8





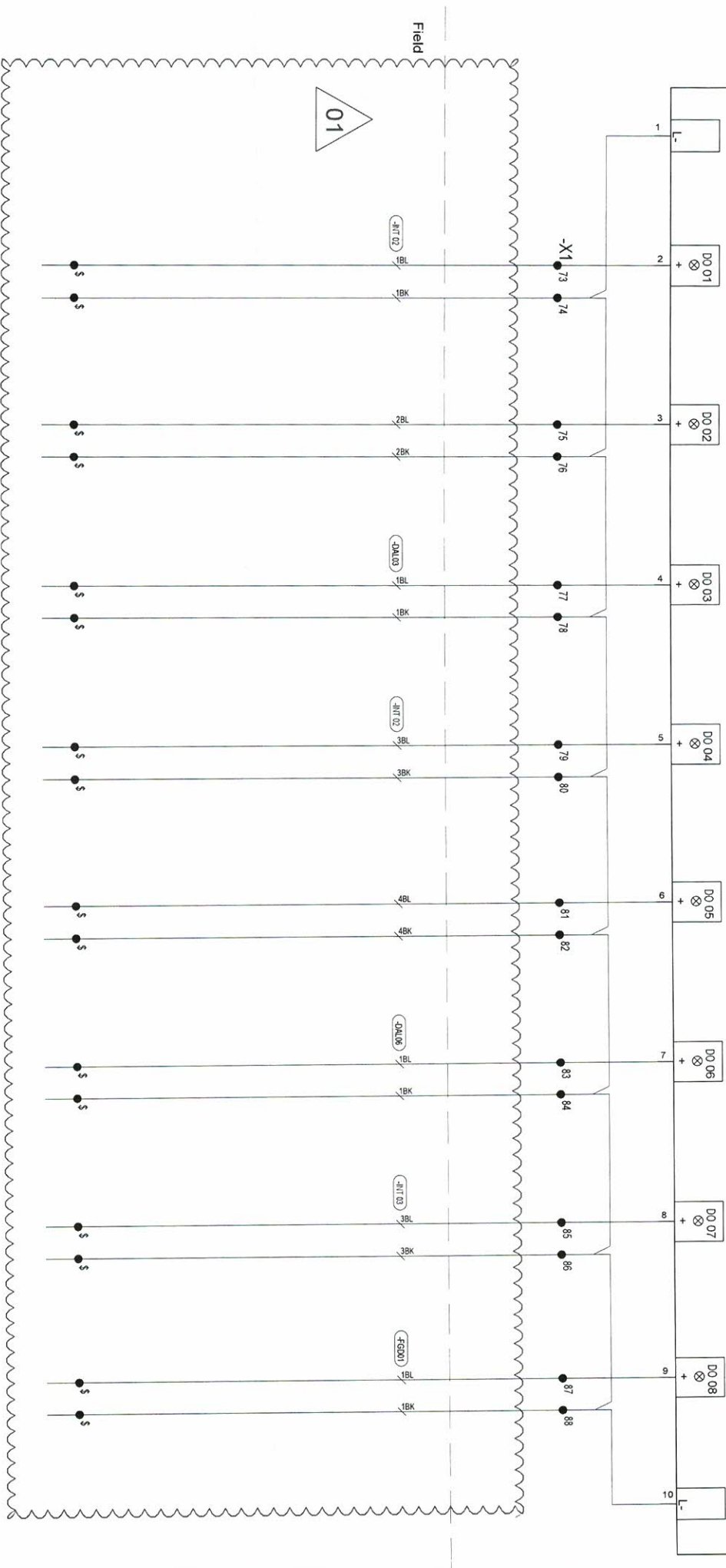
Accepted	1	Accepted w/ comments	2	Not accepted	3	For information	4	Date	Sign.	Personnel Safety Container (EU-Project)	Size	System code	Area code
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00	Issued for Information	04.07.2016	MOHE	HAAL	HAAL					HilMatrix			
Rev.	Revision	Date	Made	Check	Appr.								



1	2	3	4	5	6	7	8
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channel name				channel name			
01	DAL01	Beacon		05	DAL05	Beacon	
02	DAL02	Beacon/sounder		06	DAL06	Beacon	In Air lock
03	DAL03	Beacon		07	DAS01	Sounder	Technical Room
04	DAL04	Beacon		08	FGD01	Open Damper	In Air lock

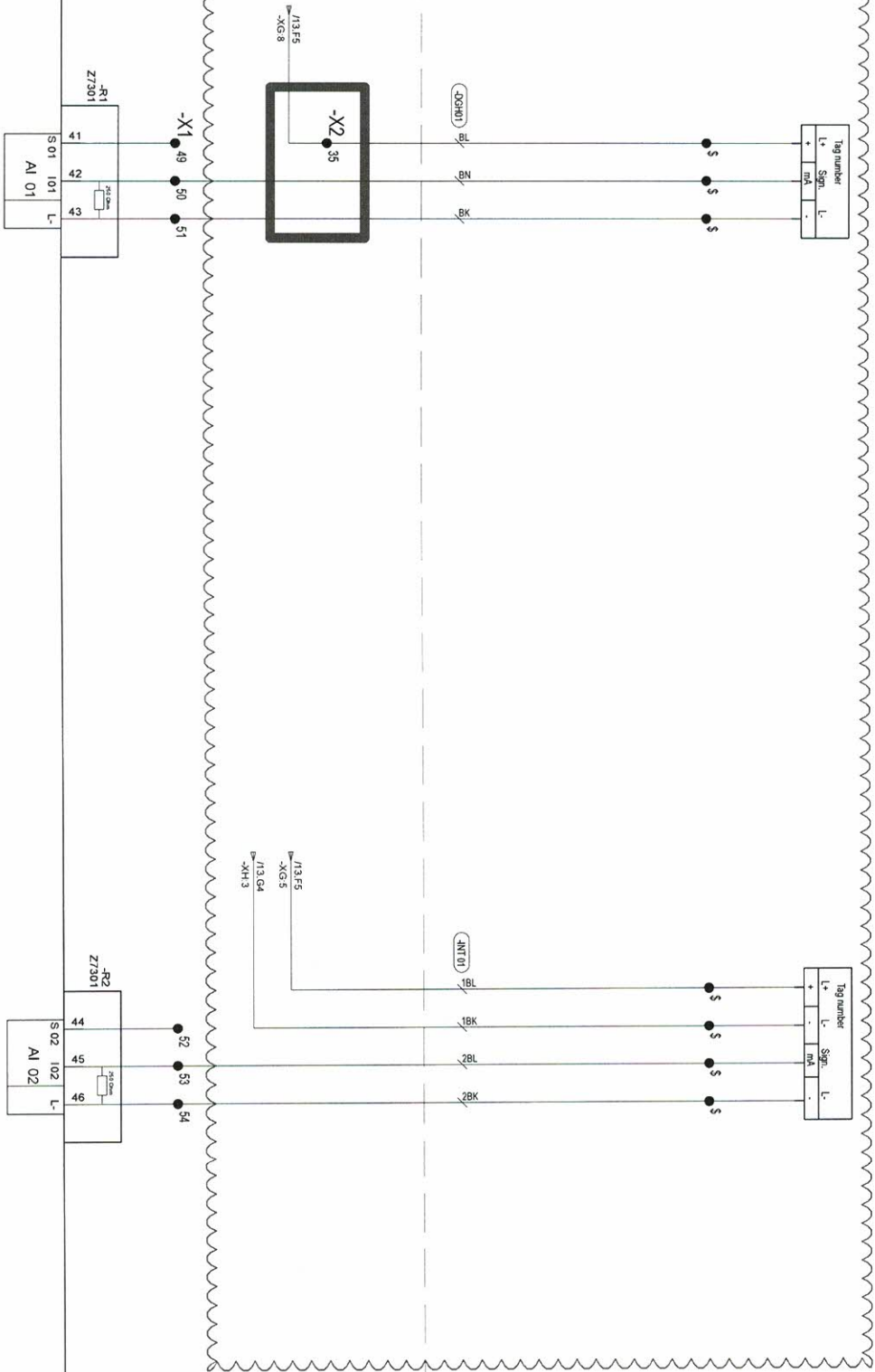
F35 -D01 24 DI/8 DO/8 AI/2 CO



Accepted	1	Accepted w/ comments	2	Not accepted	3	For information	4	Date:	Sign	Personnel Safety Container (EU-Project)				Size	System code	Area code	Rev.
01	Re-issued for information			06.02.2017	MMME	KJTH	HAAL			Circuit Diagrams	HilMatrix	Supplier Drawing No.	71410-XX-0001	Drawing No.			01
00	Issued for information			04.07.2016	MMME	HAAL	HAAL										18
Rev.	Revision			Date	Made	Check	Appr.							Client drv. no.			42

DGH01
Flammable H2 gas
UPS

DPT01
Pressure in
Air Lock

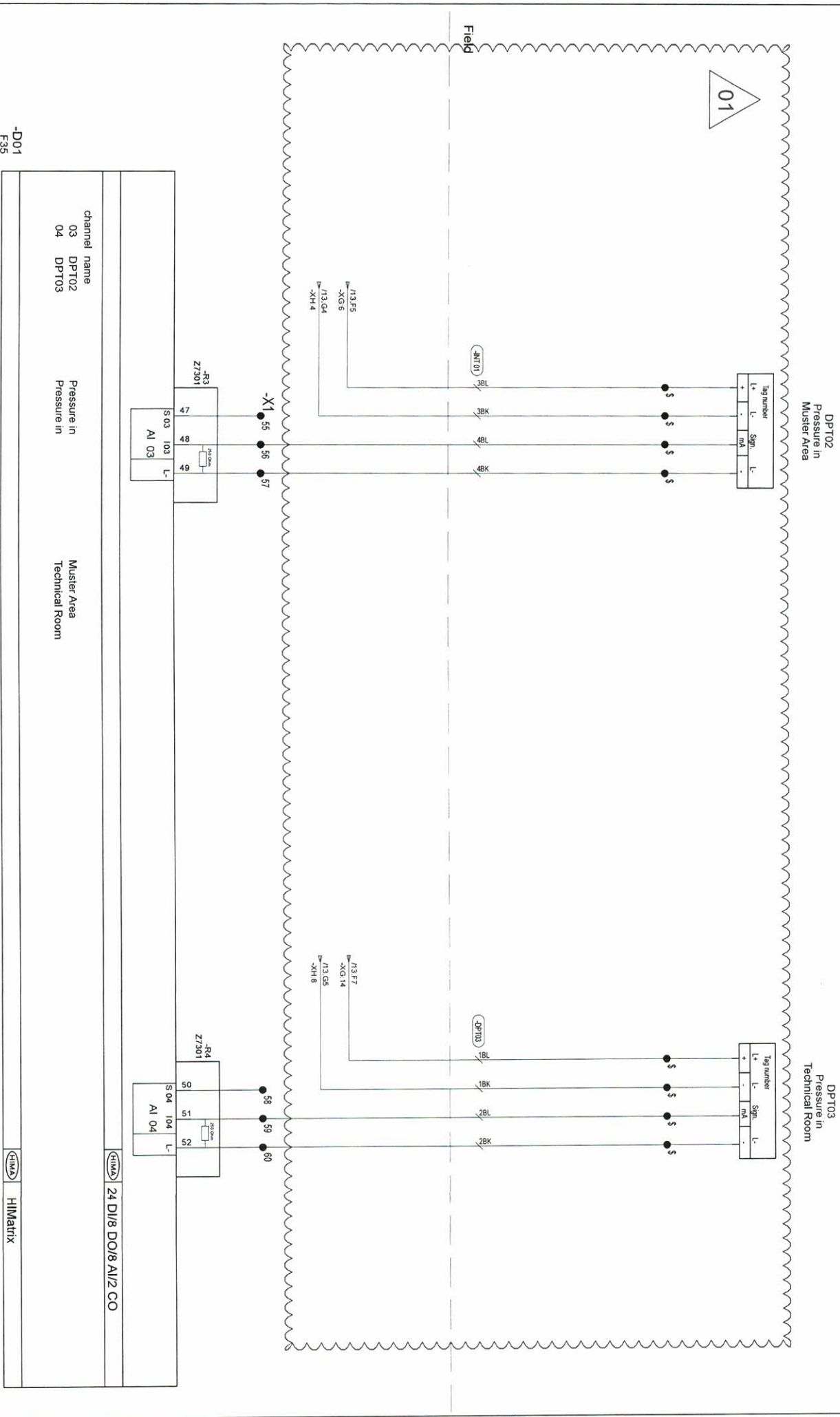


-D01
F35

		S 01 I 01 L-				S 02 I 02 L-	
		AI 01				AI 02	
		HIMA 24 DI/8 DO/8 AI/2 CO					
channel name		Flammable H2 gas				UPS	
01 DGH01		Pressure in				Air Lock	
02 DPT01							
		HIMA HIMAtrix					

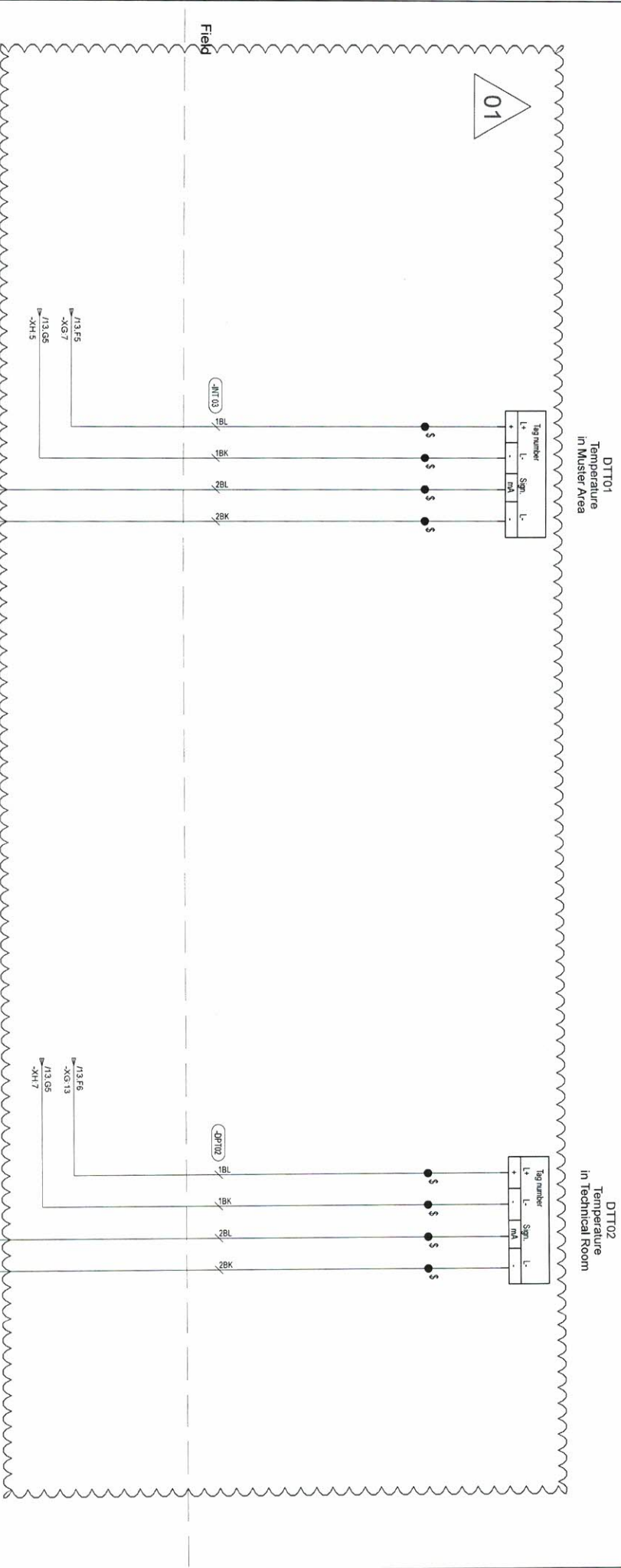
Accepted	1	Accepted w/	2	Not	3	For	4	Date:	Spn.	Personnel Safety Container (EU-Project)	Size	System	Area
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01	Re-issued for information		06.02.2017	WOME	KJTH	HAAL				Circuit Diagrams	Supplier Drawing No.		Rev. 01
00	Issued for information		04.07.2016	WOME	HAAL	HAAL				HIMAtrix	71410-XX-0001		Sheet 19
Rev.	Revision		Date	Made	Check	Appr.				Cabinet no.	Client dw. no.		Of 42

1	2	3	4	5	6	7	8
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Accepted		1	Accepted w/ comments	2	Met accepted	3	For information	4	Date:	Sign:	Personnel Safety Container (EU-Project)				Size	System code	Area code
		01	Re-issued for Information		06.02.2017	MONTE	KJTH	HAAL			Circuit Diagrams	Supplier Drawing No.				Rev.	01
		00	Issued for Information		04.07.2016	MONTE	HAAL	HAAL			Hilmarinx	71410-XX-0001				Sheet	20
			Rev: Revision		Date	Check	Appr.				Cabinet no.	Client drw. no.				Of	42
																	

1	2	3	4	5	6	7	8
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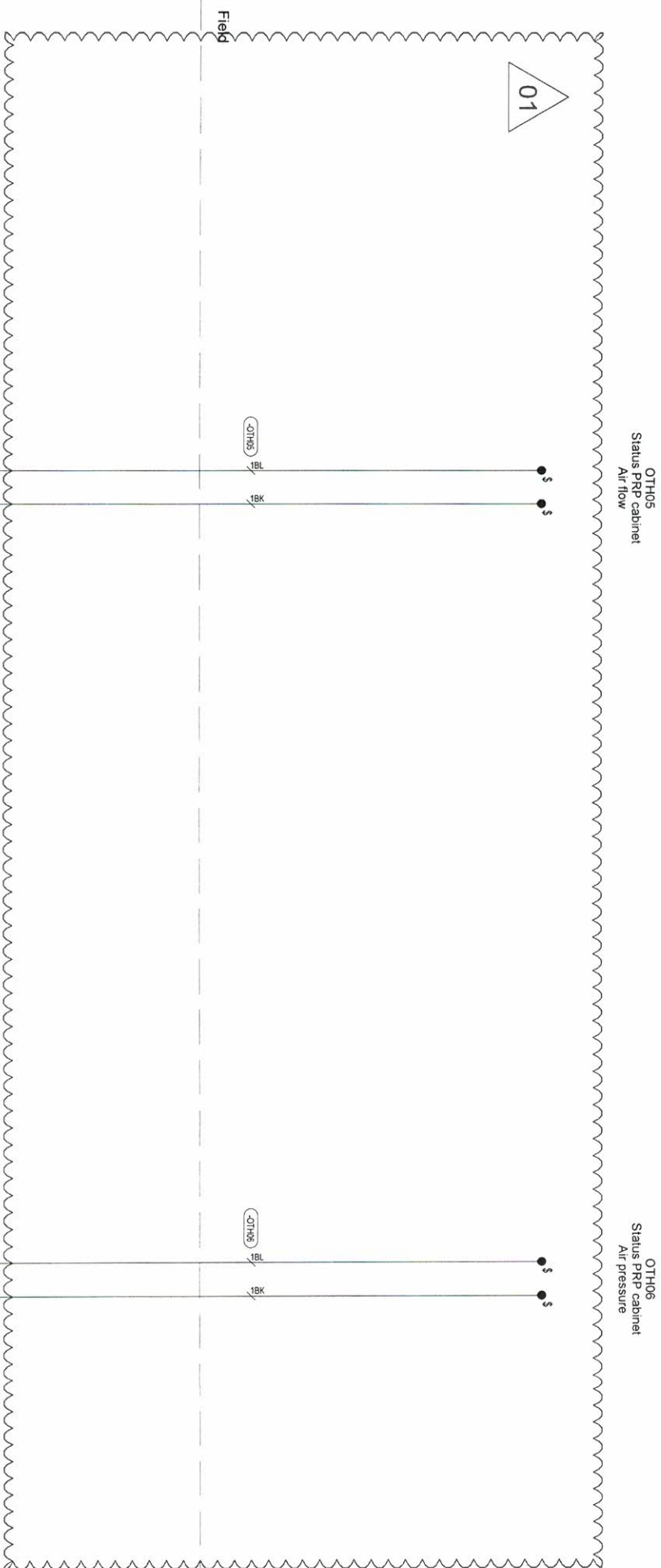


-D01
F35

		S 05 I05 L- AI 05				S 06 I06 L- AI 06				
							HIMAS	24 DI/8 DO/8 AI/2 CO		
channel name										
05		DTT01		Temperature				in Muster Area		
06		DTT02		Temperature				in Technical Room		
							HIMAS	HIMatrix		

Accepted	1	Accepted w/ comments	2	NAI accepted	3	For information	4	Date:	Sgn:	Personnel Safety Container (EU-Project)	Size	System code	Area code
01	Re-issued for information			06.02.2017	WOME	KJTH	HAAL			Circuit Diagrams	Supplier Drawing No.		
00	Issued for information			04.07.2016	WOME	HAAL	HAAL			HIMatrix	71410-XX-0001		
Rev	Revision	Date	Make	Check	Appr.	origo SOLUTIONS			Cabinet no.		Drawing No.	Client drw. no.	Rev. 01
													Sheet 21
													Of 42

1	2	3	4	5	6	7	8



		S 07 107		L-				S 08 108		L-	
		AI 07						AI 08			
channel name 07 OTH05 Status PRP cabinet 08 OTH06 Status PRP cabinet Air flow Air pressure											
						HIMA 24 DI/8 DO/8 AI/2 CO					
						HIMA HIMatrix					

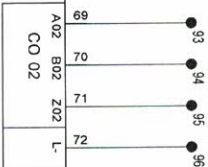
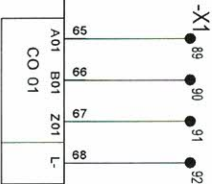
Accepted					
1		2		NAI accepted	3
				For information	4
Date:					
origo SOLUTIONS					
Personnel Safety Container (EU-Project)					
Circuit Diagrams		Size		System code	Area code
Hilatrix		Supplier Drawing No. 71410-XX-0001			
Drawing No.		Client drw. no.		Rev. 01	
Cabinet no.				Sheet 22 Of 42	

1	2	3	4	5	6	7	8
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SPARE

SPARE

Field



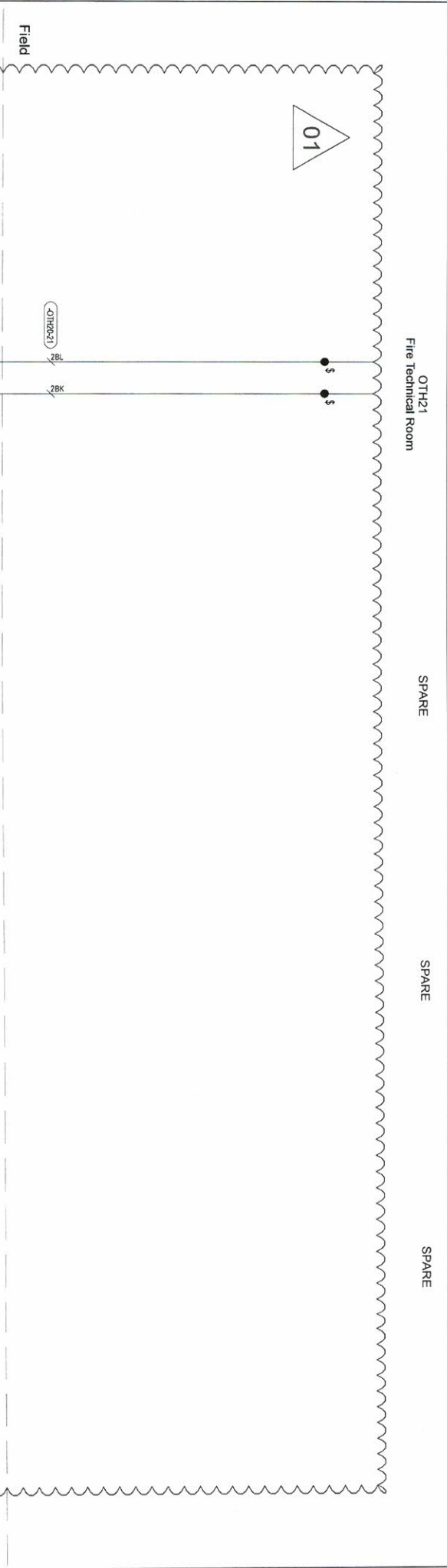
channel name
01 SPARE
02 SPARE

HIMAT 24 DI/8 DO/8 AI/2 CO

HIMAT HIMatrix

Accepted	1	Accepted w/ comments	2	Not accepted	3	For information	4	Date	Sgn.	Personnel Safety Container (EU-Project)	Size	System code	Area code
01	Re-assessed for information		06.02.2017	MOME	KJTH	HAAL				Circuit Diagrams HIMatrix	Supplier Drawing No. 71410-XX-0001		Rev. 01
00	Issued for information		04.07.2016	MOME	HAAL	HAAL				Cabinet no.	Drawing No. Client dw. no.		Sheet 23 Of 42
Rev.	Revision		Date	Made	Check	Appt.							

1	2	3	4	5	6	7	8
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Accepted w/ comments		Met accepted	For information	Date	Spn	Size		System code	Area code
1	2	3	4			71410-XX-0001			
Revised for information		06.02.2017	WOME	KJTH	HAAL	Supplier Drawing No.			Rev. 01
Issued for information		04.07.2016	WOME	HAAL	HAAL	Drawing No.			Sheet 24
Rev. Revision		Date	Made	Check	Appr.	Client dw. no.			Of 42

channel name		Fire Technical Room		channel name		F3 DIO 8/8 01	
01	OTH21	02	SPARE	03	SPARE	04	SPARE

-DIO2

F3 DIO 8/8 01

HIMA

HIMatrix

1	2	3	4	5	6	7	8
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SPARE

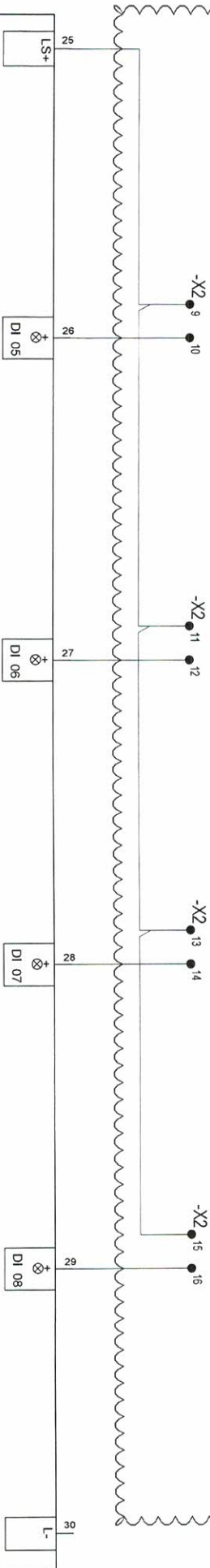
SPARE

SPARE

SPARE



Field



- channel name
- 05 SPARE
 - 06 SPARE
 - 07 SPARE
 - 08 SPARE

-D02
F3 DIO 8/8 01

Accepted	1	Accepted w/ comments	2	Not accepted	3	For information	4	Date	Sign	Personnel Safety Container (EU-Project)	Size	System code	Area code
01	Revised for Information			06.02.2017	MOME	KJTH	HAAL			Circuit Diagrams	Supplier Drawing No.		Rev. 01
00	Issued for Information			04.07.2016	MOME	HAAL	HAAL			F3 DIO 8/8 01	71410-XX-0001		Sheet 25
Rev.	Revision			Date	Made	Check	Appr.			Cabinet no.	Drawing No.		Or 42



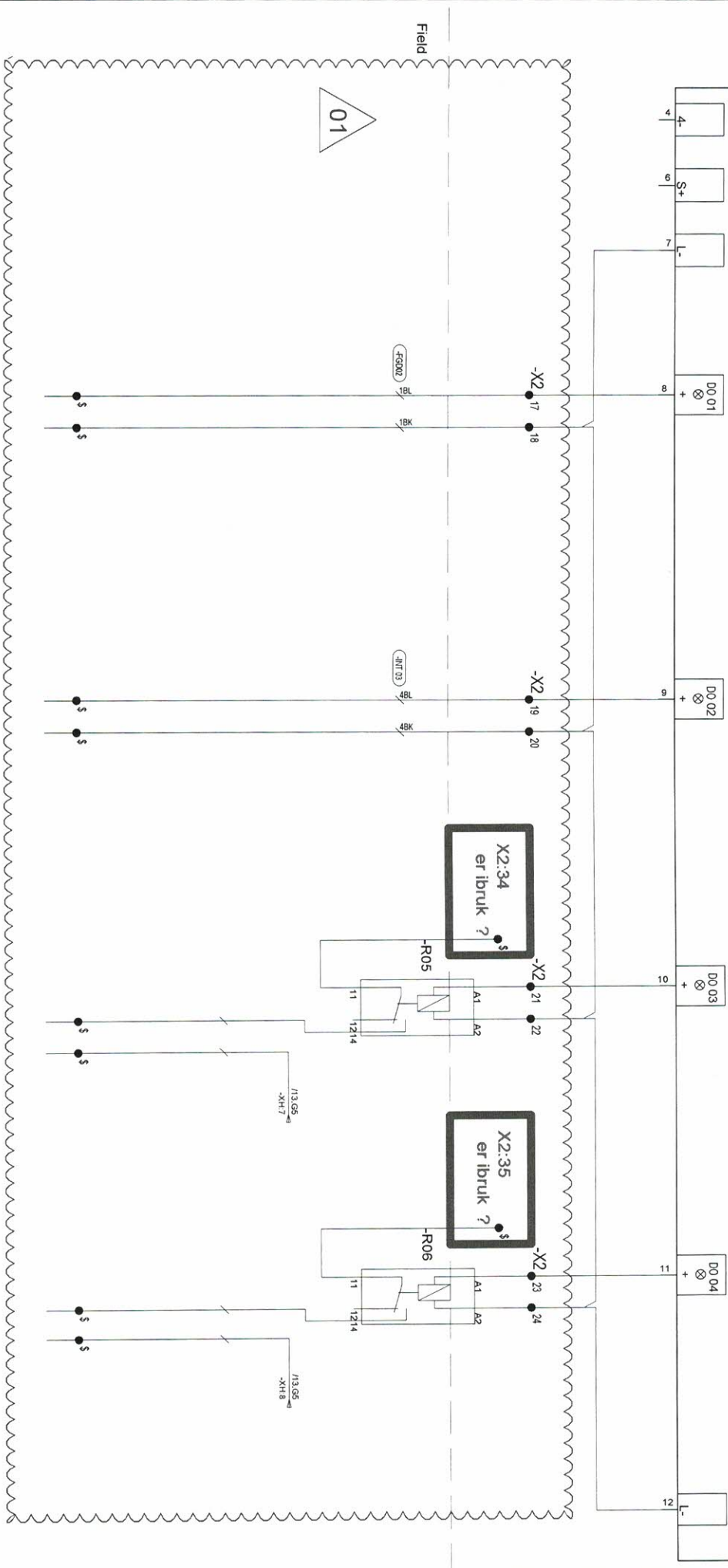
HIMA HiMatrix

channel name	
01	FGD02
02	FGD03
03	BSW01
04	BSW02

Open Damper	In Air Outlet
Open Damper	In Airlock
Open valve 1 & 2	Air from Bottle Bank
Close valve 1 & 2	Air from Bottle Bank

-D02 F3 DIO 8/8 01

HIMA F3 DIO 8/8 01



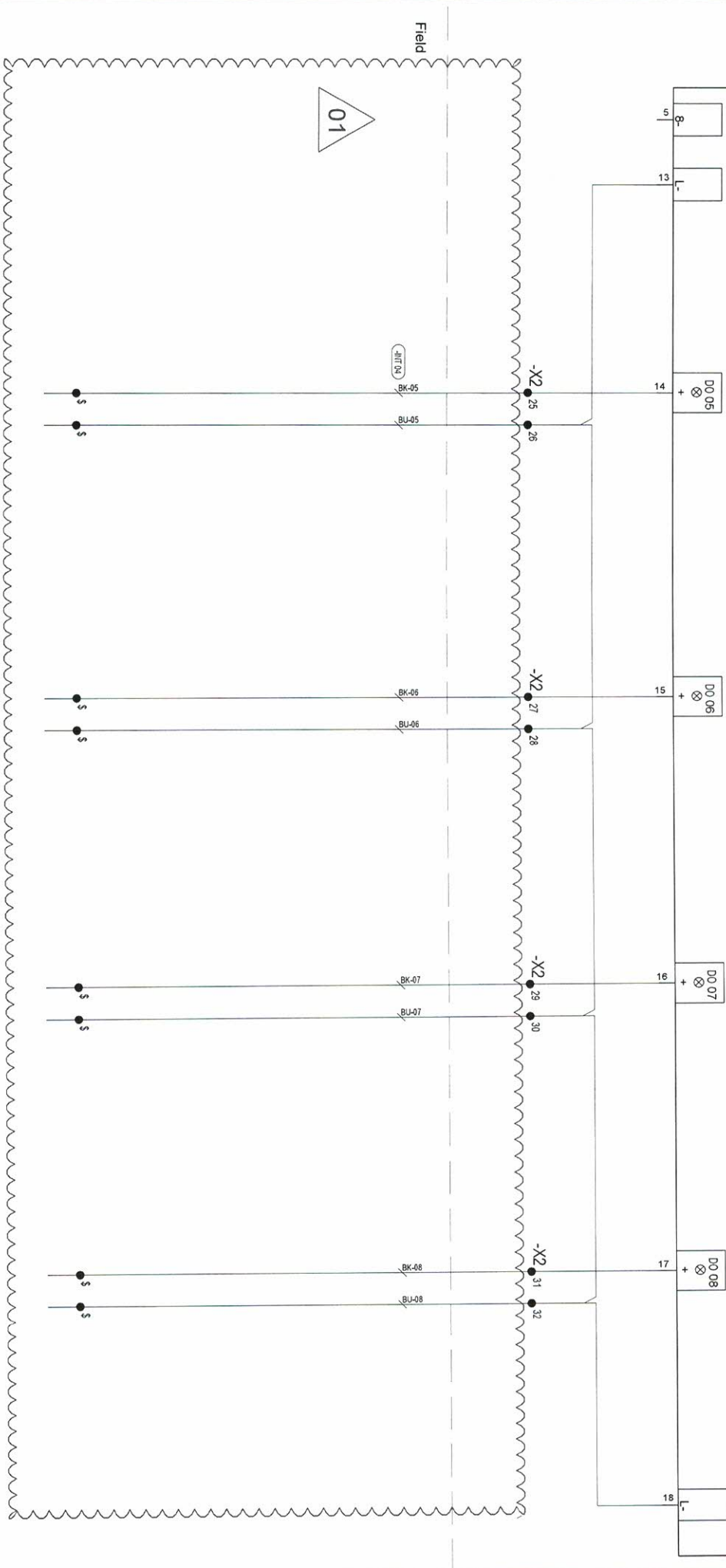
Accepted	1	Accepted w/	2	Met	3	For	4	Date	Sign	Personnel Safety Container (EU-Project)	Size	System	Area
		comments		accepted		information						code	code
01		Revised for information		06.02.2017		WOME	KJTH	HAAL		Circuit Diagrams	Supplier Drawing No.		Rev.
00		Issued for information		04.07.2016		WOME	HAAL	HAAL		F3 DIO 8/8 01	71410-XX-0001		01
Rev.	Revision			Date		Made	Check	Appr.		Cabinet no.	Drawing No.		Sheet
											Client drw. no.		26
													42

1	2	3	4	5	6	7	8
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HIMAX HIMatrix

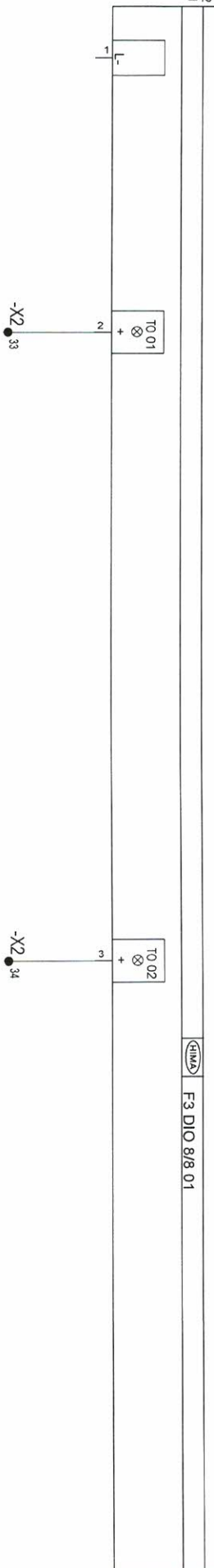
channel name	
05 DSL01	Door
06 DSL02	Door
07 DSL03	Door
08 DSL04	Door
Status Light 1	
Status Light 2	
Status Light 3	
Status Light 4	

-D02 F3 DIO 8/8 01



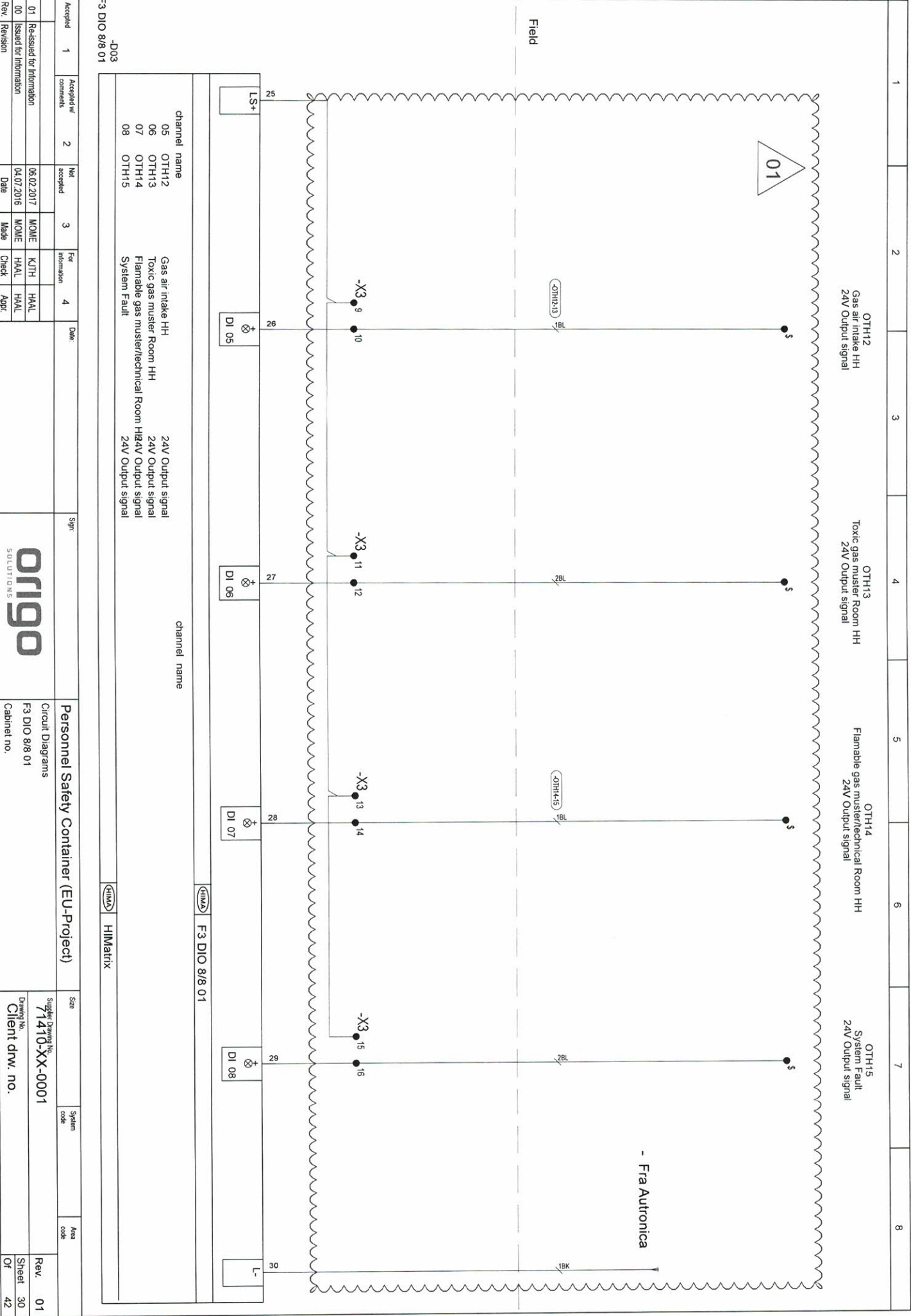
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00	Issued for information		04.07.2016	MOME	HAAL	HAAL	HAAL				Cabinet no.	Drawing No.	Client drw. no.	Sheet 27
Rev.	Revision		Date	Made	Check	Appr.								Of 42

1	2	3	4	5	6	7	8
channel name 01 SPARE 02 SPARE					 HIMatrix		
					 F3 DIO 8/8 01		



Field

Accepted		1	Accepted w/ comments	2	Not accepted	3	For information	4	Date	Sign		
01	Re-issued for information		06.02.2017	MMME	KJTH	HAAL						
00	Issued for information		04.07.2016	MMME	HAAL	HAAL						
Rev	Revision		Date	Check	Appr.	Appr.						
												
Personnel Safety Container (EU-Project)										Size	System code	Area code
Circuit Diagrams F3 DIO 8/8 01 Cabinet no.										Supplier Drawing No. 71410-XX-0001		
										Drawing No.		
										Client drv. no.		
										Rev.	01	
										Sheet	28	
										Of	42	



1	2	3	4	5	6	7	8
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HIMAX HIMatrix

channel name	
01	OTH08 Shut down
02	OTH09 Shut down
03	OTH10 Shut down
04	OTH11 Shut down

HVAC
Compressor 1
Main Distr. Board
UPS unit from UPS

D03
F3 DIO 8/8 01

HIMAX F3 DIO 8/8 01



XG8
er ibruk ?

01

Field

-X2 36

-X2 36

-X2 36

-X2 36

-X2 36

-X2 36

-X2 36

-X2 36

-X2 36

-X2 36

-X2 36

-X2 36

-X2 36

-X2 36

-X2 36

-X2 36

-X2 36

-X2 36

-X2 36

-X2 36

-X2 36

-X2 36

-X2 36

-X2 36

-X2 36

-X2 36

-X2 36

-X2 36

-X2 36

-X2 36

-X2 36

-X2 36

-X2 36

-X2 36

-X2 36

-X2 36

-X2 36

-X2 36

-X2 36

-X2 36

-X2 36

-X2 36

-X2 36

-X2 36

Relay 34.51.7.024.0010

Relay 34.51.7.024.0010

Relay 34.51.7.024.0010

Relay 34.51.7.024.0010

OTH08
Shut down
HVAC

OTH09
Shut down
Compressor 1

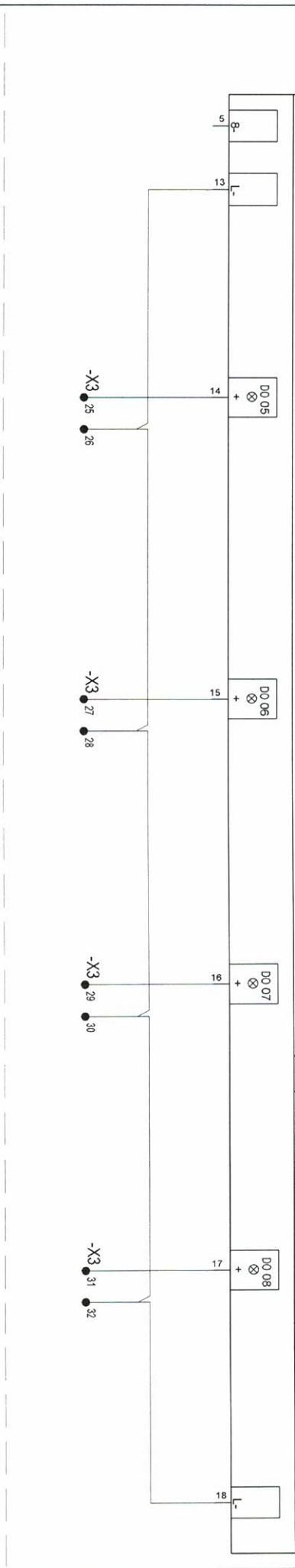
OTH10
Shut down
Main Distr. Board

OTH11
Shut down
UPS unit from UPS

Accepted	1	Accepted w/	2	Not	3	For	4	Date	Sign	Personnel Safety Container (EU-Project)	Size	System	Area
		comments		accepted		information						code	code
01		Re-issued for information		06.02.2017	MOME	KJTH	HAAL			Circuit Diagrams	Supplier Drawing No. 71410-XX-0001		Rev. 01
00		Issued for information		04.07.2016	MOME	HAAL	HAAL			F3 DIO 8/8 01	Drawing No.		Sheet 31
Rev.	Revision			Date	Made	Check	Appr.			Cabinet no.	Client drw. no.		Of 42

1	2	3	4	5	6	7	8
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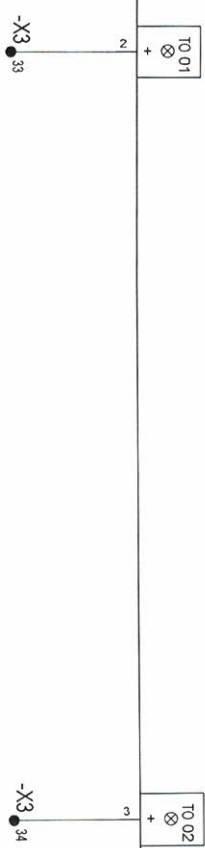
		 HIMArix
channel name		
05	SPARE	
06	SPARE	
07	SPARE	
08	SPARE	
-D03		
F3 DIO 8/8 01		F3 DIO 8/8 01



Accepted	1	Accepted w/ comments	2	Not accepted	3	For information	4	Date:		Personnel Safety Container (EU-Project)	Site	System code	Area code
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00	Issued for Information		04.07.2016	MOME	HAAL	HAAL							
Rev. Revision			Date	MOME	Check	Appr.							
Circuit Diagrams									F3 DIO 8/8 01	Cabinet no.	Supplier Drawing No. 71410-XX-0001	Drawing No.	Rev. 01
									Client drw. no.			Sheet 32	Of 42

1	2	3	4	5	6	7	8

		 HIMatrix	
channel name			
01	SPARE		
02	SPARE		
-D03			
F3 DIO 8/8 01			F3 DIO 8/8 01
TO 01 ⊗ +		TO 02 ⊗ +	



Field

Accepted	1	Accepted w/ comments	2	Not accepted	3	For information	4	Date:	Sgn:	origo SOLUTIONS Circuit Diagrams F3 DIO 8/8 01 Cabinet no. Signature Drawing No. 71410-XX-0001 Drawing No. Client dwg. no. Rev. 01 Sheet 33 Of 42
01	Re-issued for information		06.02.2017	MOME	KJTH	HVAL				
00	Issued for information		04.07.2016	MOME	HVAL	HVAL				
Rev	Revision		Date	MOME	Check	Appr.				

1			2		3		4		5		6		7		8				
terminal strip																			
-X1																			
						target external		potential		terminal number		target internal		Placement in Schematics		cable designations		cable type	
		Tag no.		Description						jumpers						cable designations			
						+FIELD				1		-D01		:11		/15:E1			
		FDS01		Damper in Air-lock Air Outlet- Open		+FIELD				2		-D01		:12		/15:E2			
						+FIELD				3						/15:E2			
		FDS02		Damper in Air-lock Air Outlet- Close		+FIELD				4		-D01		:13		/15:E2			
						+FIELD				5						/15:E3			
		FDS03		Damper 1 Technical Room Air Inlet- Open		+FIELD				6		-D01		:14		/15:E3			
						+FIELD				7						/15:E4			
		FDS04		Damper 1 Technical Room Air Inlet- Close		+FIELD				8		-D01		:15		/15:E4			
						+FIELD				9						/15:E5			
		FDS05		Damper Air Intake Air Inlet- Open		+FIELD				10		-D01		:16		/15:E5			
						+FIELD				11						/15:E6			
		FDS06		Damper Air Intake Air Inlet- Close		+FIELD				12		-D01		:17		/15:E6			
						+FIELD				13						/15:E7			
		BSV01		Ball valve 1 PRP panel -Open		+FIELD				14		-D01		:18		/15:E7			
						+FIELD				15						/15:E8			
		BSV02		Ball valve 1 PRP panel -Close		+FIELD				16		-D01		:19		/15:E8			
						+FIELD				17		-D01		:21		/16:E1			
		BSV03		Ball valve 2 PRP panel -Open		+FIELD				18		-D01		:22		/16:E2			
						+FIELD				19						/16:E2			
		BSV04		Ball valve 2 PRP panel -Close		+FIELD				20		-D01		:23		/16:E2			
						+FIELD				21						/16:E3			
		EDS01		Door from Outside to Airlock		+FIELD				22		-D01		:24		/16:E3			
						+FIELD				23						/16:E4			
		EDS02		Door from Airlock to Muster Area		+FIELD				24		-D01		:25		/16:E4			
						+FIELD				25						/16:E5			
		OTH01		General Alarm from HVAC		+FIELD				26		-D01		:26		/16:E5			
						+FIELD				27						/16:E6			
		OTH02		General Alarm from UPS		+FIELD				28		-D01		:27		/16:E6			
						+FIELD				29						/16:E7			
		OTH07		Status Purafil H2S Filter						30		-D01		:28		/16:E7			
										31						/16:E8			
		SPARE								32		-D01		:29		/16:E8			
										33		-D01		:31		/17:E1			
		SPARE								34		-D01		:32		/17:E2			

Accepted		1		Accepted w/ comments		2		Not accepted		3		For information		4		Date		Sgn		Personnel Safety Container (EU-Project)		Size		System code		Area code		Rev.		01	
01		Re-issued for Information		06.02.2017		MONE		KJTH		HAAL										Terminal Plan		Supplier Drawing No. 71410-XX-0001		Drawing No.		Client drw. no.		Sheet 34		Of 42	
00		Issued for Information		04.07.2016		MONE		HAAL		HAAL																					
Rev/		Revision		Date		Made		Check		Appr.																					

terminal strip														-X1																											
cable type														cable designations																											
cable type														cable designations																											
cable type														cable designations																											
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