

***FROMM***

**ELS FS360 FROMM  
TURNTABLE STRETCH MACHINE  
ELS.1123 Motorized Carriage  
Version 01 machines  
Rev03**

Print date \_Monday 12 November 2018/ © 11/18

PROGETTO  
BANCA DIS.  
TIPICO

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# MODEL : FROMM FS360 Motorized Carriage

KIND OF CIRCUIT		COLORS CONDUCTORS	MINIMUM SECTION
POWER CONDUCTORS AC		BLACK	N07V-K/1,5mm <sup>2</sup>
NEUTRAL CONDUCTORS		LIGHT BLUE	N07V-K/1,5mm <sup>2</sup>
POWER CONDUCTORS DC		GRAY	N07V-K/0,75mm <sup>2</sup>
CONTROLS / SIGNALS DIRECTING CURRENT	24V DC	BLUE	N07V-K/0,75mm <sup>2</sup>
GROUND CONDUCTORS		YELLOW-GREEN	N07V-K/1,5mm <sup>2</sup>

TENSIONE POWER SUPPLY	230V ac
POTENZA INSTALLATA INSTALLED POWER	1kW
CORRENTE CURRENT	5,5A
FROMM ITALIANA s.r.l. Caprino Veronese (VR) ITALY	ELS.1123
FILE :ELS.1123.dwg	
FOGLIO	
1	=
11	+
FG. 01	
F.T. 17	

**FROMM**

FS360 motorized carriage

ELS.1123

FG. 01  
F.T. 17

REV.

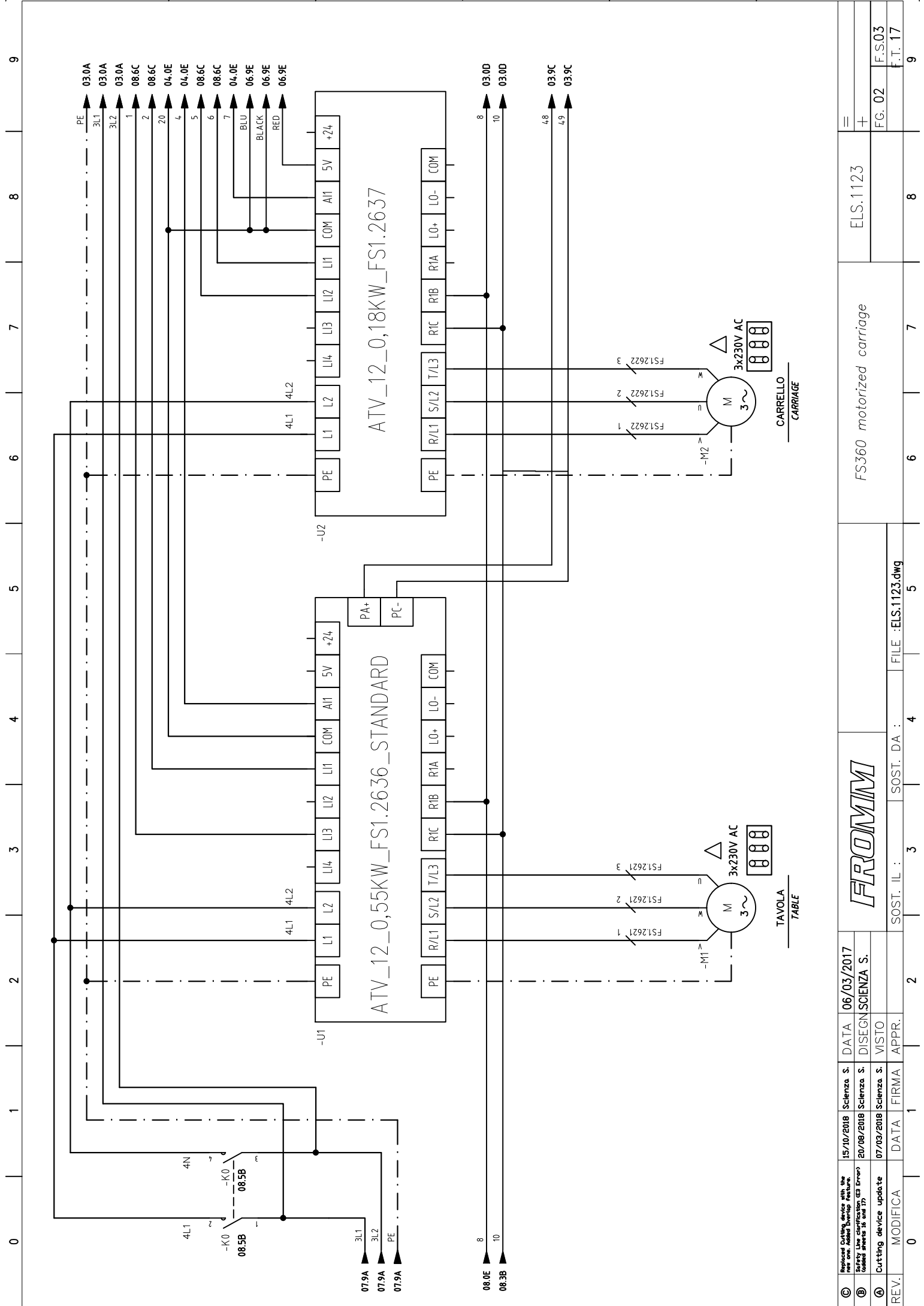
MODIFICA DATA FIRMA APPR.

SOST. IL :

SOST. DA :

FILE :ELS.1123.dwg

9



REV.	MODIFICA	DATA	FIRMA	APPR.	SOST. IL :	3	SOST. DA :	4	FILE :	5	EL.S.1123.dwg	6	7	8	9
0															
1		15/10/2018	Scienza S.		DATA	06/03/2017									
2		20/08/2018	Scienza S.		DISEGN	SOENZA S.									
3		07/03/2018	Scienza S.		VISTO										
4															
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FS360 motorized carriage

ELS.1123

FG. 02  
F.T. 17





# Motorized carriage

CARRELLO  
CARRIAGE

FINECORSA  
CARRIELLO  
CARRIAGE  
SWITCH

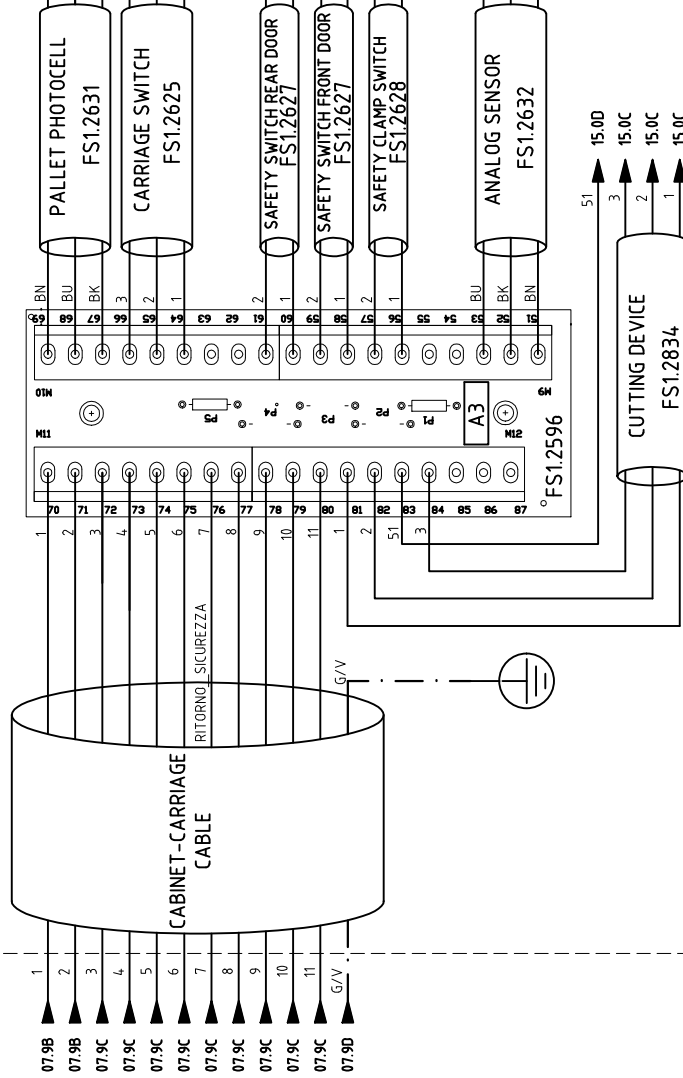
ALTEZZA  
MERCE  
GOODS  
HEIGHT

MICRO SIC CARRELLO  
PORTELLO POSTERIORE  
SAFETY CARRIAGE  
REAR DOOR SWITCH

MICRO SIC CARRELLO  
PORTELLO ANTERIORE  
SAFETY CARRIAGE  
FRONT DOOR SWITCH

MICRO SICUREZZA  
SALVAPIEDE  
SAFETY CLAMP  
SWITCH

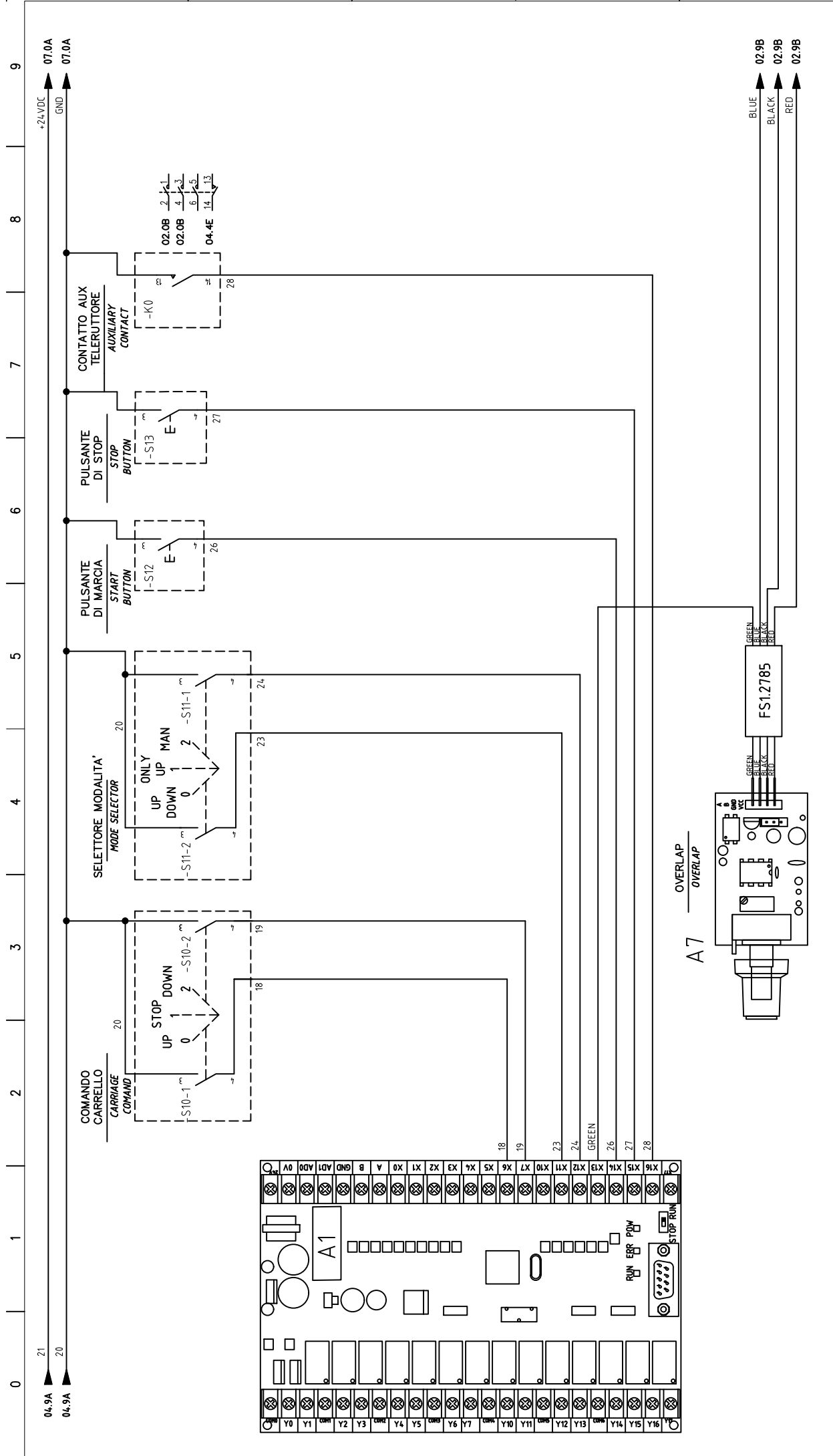
SENSORE ANALOGICO  
BALLERINO  
DANCER  
ANALOG SENSOR



BN = MARRONE = BROWN = MARRON  
WH = BIANCO = WHITE = BLANC  
BU = BLU = BLUE = BLEU  
BK = NERO = SCHWARZ = BLACK = NOIR

REV.	MODIFICA	DATA	FIRMA	APPR.	2	3	4	5	6	7	8	9
①	Replaced Cutting device with the new one Adapt Turn-up Feature.	15/10/2018	Scienza S.	DATA	06/03/2017	FROMM		FS360 motorized carriage		ELS.1123		=
②	Safety Line clarification (G3 Error) (added wires 16 and 17)	20/08/2018	Scienza S.	DISEGN	SOENZA S.							+
③	Cutting device update	07/03/2018	Scienza S.	VISTO								FG. 05
												F.T. 17

FILE : ELS.1123.dwg



BN = MARRONE = BRAUN = BROWN = MARRON  
 WH = BIANCO = WEISS = WHITE = BLANC  
 BU = BLU = BLAU = BLUE = BLEU  
 BK = NERO = SCHWARZ = BLACK = NOIR

REV.	MODIFICA	DATA	FIRMA	APPR.	2	3	4	5	6	7	8	9
①	Revised Cutting device with the new one. Adding Overlap Feature.	15/10/2018	Scienza S.		06/03/2017						ELS.1123	=
②	Safety Line clarification. G3 Error's coded sheet is one 17.	20/08/2018	Scienza S.		SOENZA S.							+
③	Cutting device update	07/03/2018	Scienza S.		VISTO							FG. 06
												F.T. 17

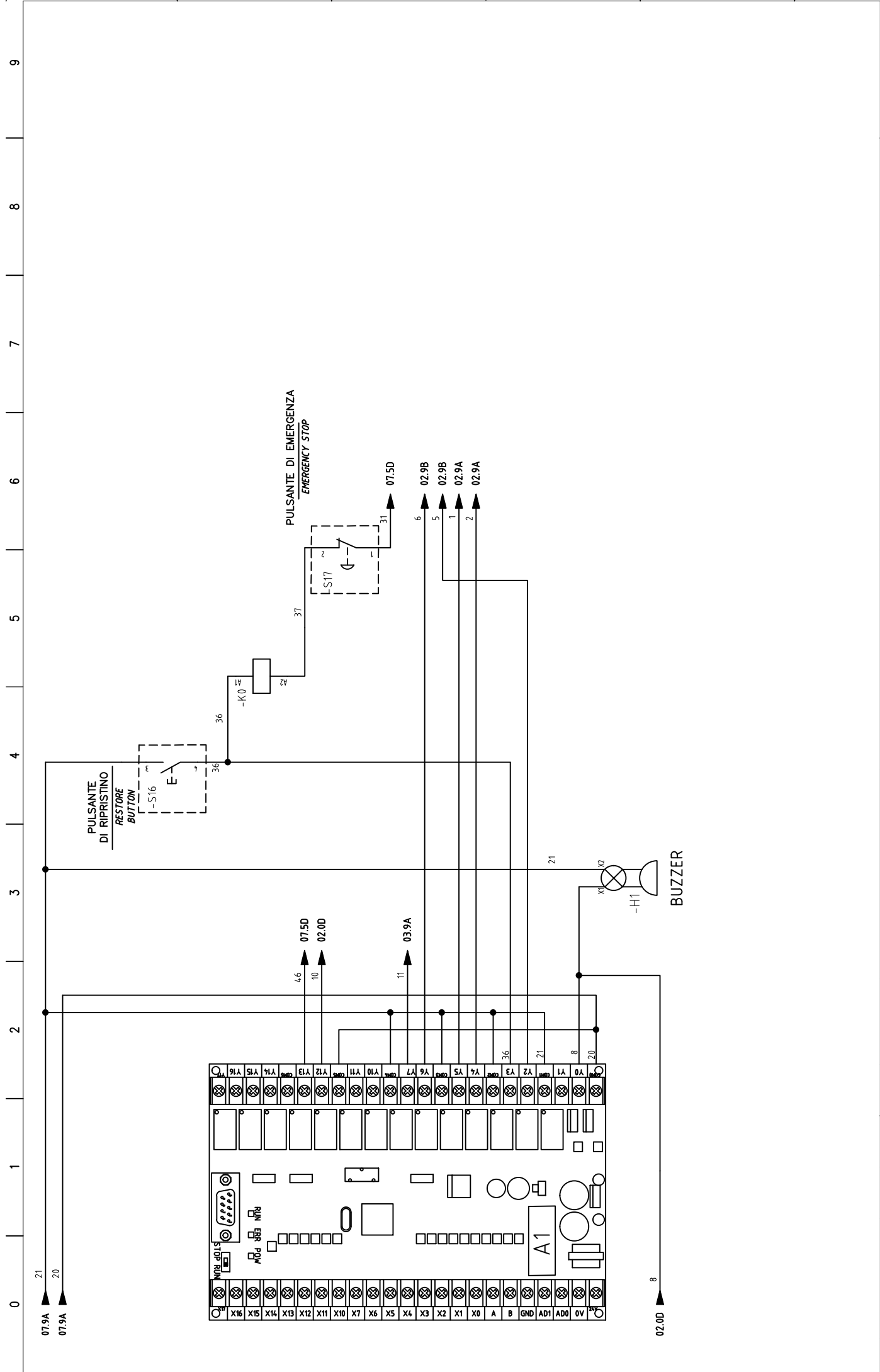


FS360 motorized carriage

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©	Replace existing device with the new one. Added Overlap Feature.	15/10/2018	Scienza S.	DATA	06/03/2017			FS360 motorized carriage	ELS.1123	=
Ⓢ	Safety Line Certification G3 Error! Coded sheet 16 and 17.	20/08/2018	Scienza S.	DISEGN	SCIOENZA S.					
Ⓐ	Cutting device update	07/03/2018	Scienza S.	VISTO				6	8	9
REV.	MODIFICA	DATA	FIRMA	APPR.						
		0				2		5		
						3		4		
						4		5		
						5		FILE :ELS.1123.dwg		
						6				
						7				
						8				
						9				

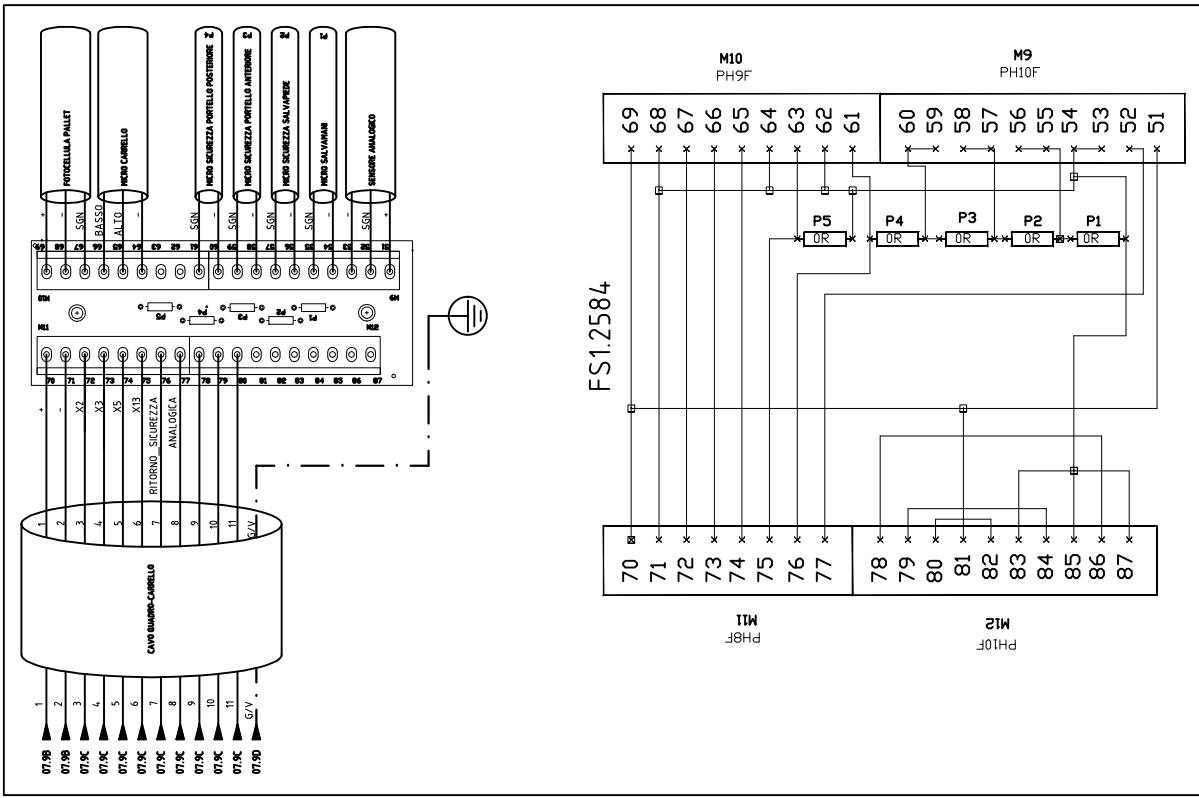
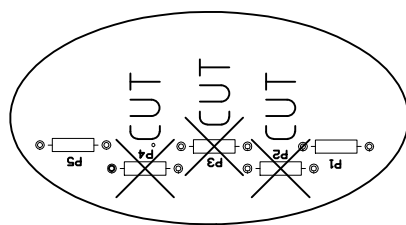
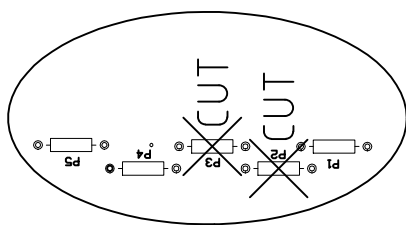
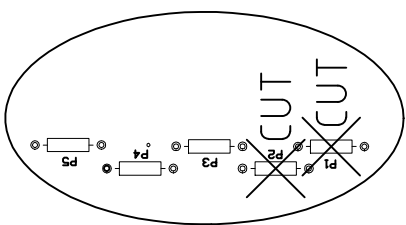
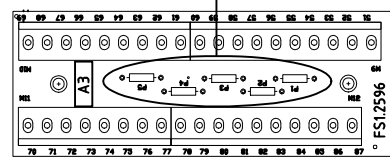
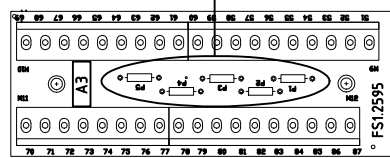
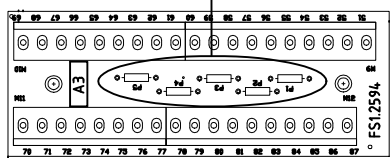




Mechanical carriage  
film coil brake

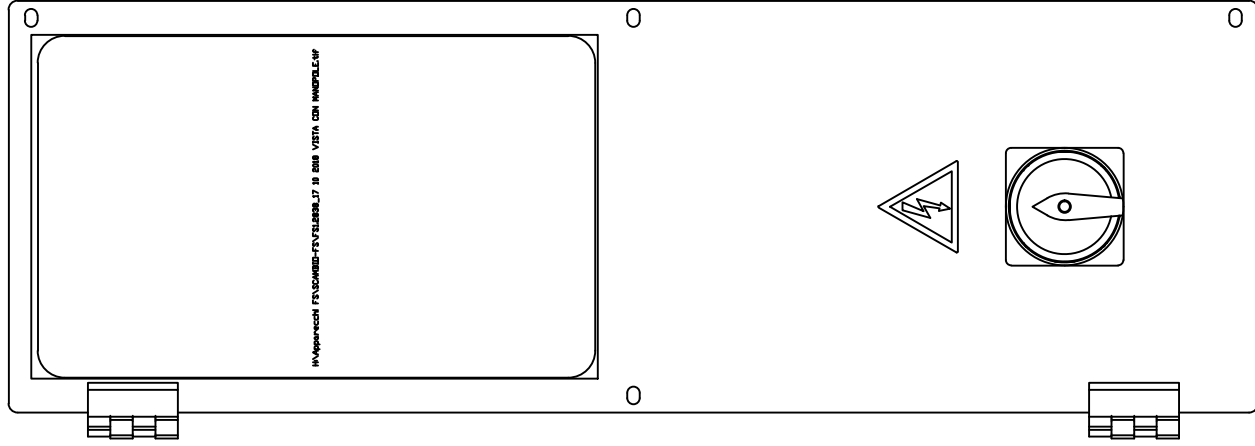
Mechanical carriage  
film roll brake

Motorized carriage

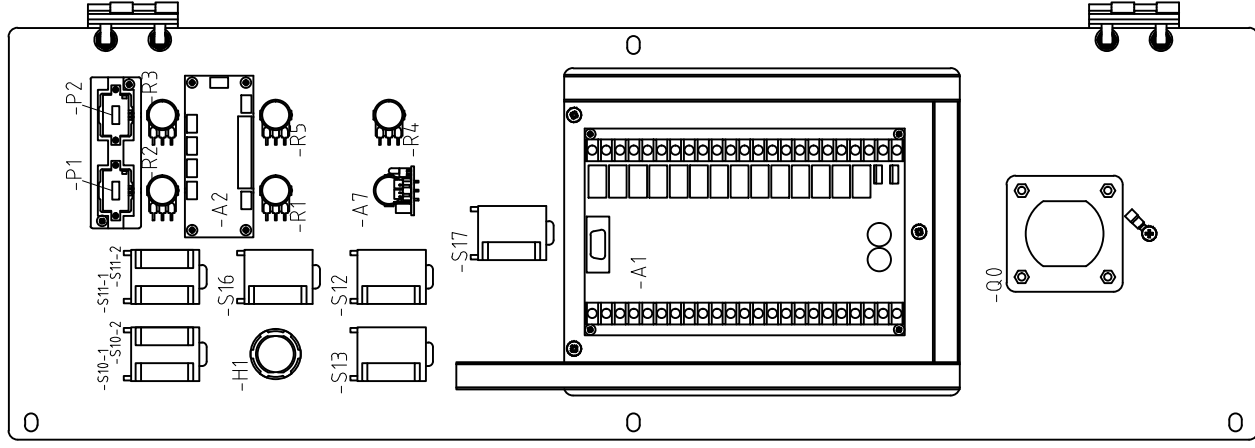


REV.	MODIFICA	DATA	FIRMA	APPR.	2	3	4	5	6	7	8	9
	Cutting device update	07/03/2018	Scienza. S.	VISTO				FILE :ELS.1123.dwg				
		20/08/2018	Scienza. S.	DISEGN	SOENZA. S.							
		15/10/2018	Scienza. S.	DATA	06/03/2017							
<p style="text-align: center;"><b>FROMMM</b></p>												
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<p style="text-align: center;">F.G. 11 F.S. 12</p>												
<p style="text-align: center;">F.T. 17</p>												





CONTROL PANEL-FRONT VIEW



CONTROL PANEL-REAR VIEW

ITEM	DESCRIPTION	CODE
A1	Plc	FS1.2644
A2	Interface board	FS1.2583
A7	Overlap board	FS1.2783
H1	Buzzer	N53.2221
P1	Top Wraps Display	FS1.2550
P2	Bottom Wraps Display	FS1.2550
Q0	Rotary Switch	N53.2222
R1	Carriage Speed Potentiometer	FS1.2551
R2	Top Wraps Potentiometer	FS1.2551
R3	Bottom Wraps Potentiometer	FS1.2551
R4	Tensioning Potentiometer	FS1.2551
R5	Turntable Speed Potentiometer	FS1.2551
S10-1	Carriage Comand - UP	N53.2227
S10-2	Carriage Comand - DOWN	N53.2227
S11-1	Mode Selector - MAN	N53.2226
S11-2	Mode Selector - UP DOWN	N53.2226
S12	Start Button	N53.2223
S13	Stop Button	N53.2224
S16	Restore Button	N53.2225
S17	Emergency Button	N53.2228

①	Revised Cutting device etc. the new one. Addit Overlap Feature.	DATA	15/10/2018	Scienza S.
②	Safety Line clarification (G3 Error) (add sheet 16 and 17)	DISEGN	20/08/2018	Scienza S.
③	Cutting device update	VISTO	07/03/2018	Scienza S.
REV.	MODIFICA	DATA	FIRMA	APPR.



SOST. IL :		SOST. DA :		FILE : ELS.1123.dwg
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FS360 motorized carriage		ELS.1123
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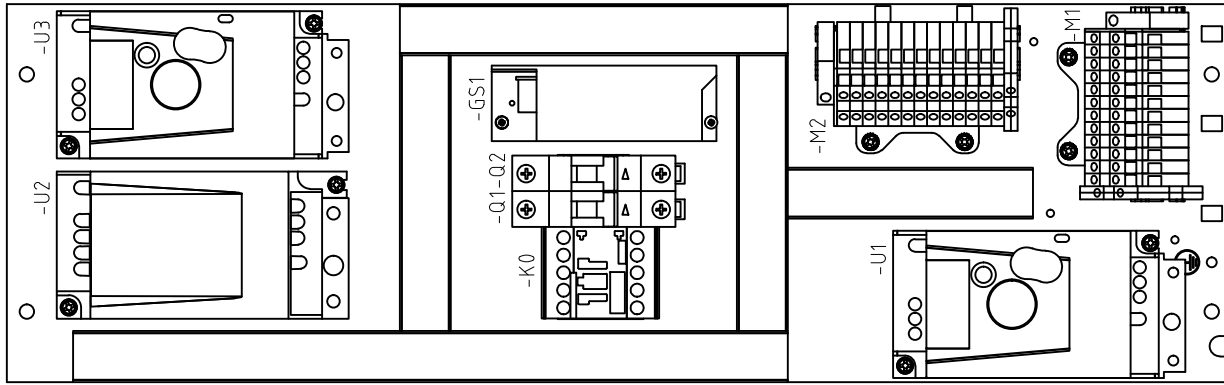
8	9
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**ELECTRIC CABINET**

ITEM	DESCRIPTION	CODE
GS1	Power Supply	N5.1484
K0	Contacto	N53.5210
M1	Terminal	
M2	Terminal	
Q1	Circuit Breaker	N53.5209
Q2	Circuit Breaker	N53.5209
U1	Turntable Inverter	FS1.2636
U2	Carriage Inverter	FS1.2637
U3	Tensioning Inverter	FS1.2638

**ON THE MACHINE**

ITEM	DESCRIPTION	CODE
A3	Motorized Carriage Terminal Board	FS1.2596
A4	DC DC Step Down-Cutting Device	FS1.2738
A5	Relay 1 channel Low Trigger	AP1.8085
A6	Relay 1 channel Low Trigger	AP1.8085
B1	Good Height Photocell	FS1.2631
B2	Dancer Analog Sensor	FS1.2632
B3	Proximity Turntable	FS1.2640
B4	Horseshoe Turntable Photocell	N51.2619
B5	Horseshoe Turntable Safety Photocell	N51.2619
M4	Linear Actuator-Cutting Device	FS1.2745
S1	Carriage Limit Switch	N5.2387
S2	Safety Carriage Rear Door Limit Switch	N5.2388
S3	Safety Carriage Front Door Limit Switch	N5.2388
S4	Safety Clamp Limit Switch	N5.2388
S14	Safety Belt Limit Switch	N5.2390
S15	Safety Carpet Limit Switch	N5.2377
S18	On-Off Switch Cutting Device	N53.2238



**ELECTRIC CABINET**

Ⓒ	Replaced Cutting device with the new one. Added Overlap Feature.	15/10/2018	Scienza S.	DATA	06/03/2017
Ⓓ	Safety Line clarification. (G3 Error) (added wires 15 and 17)	20/08/2018	Scienza S.	DISEGN	SOENZA S.
Ⓔ	Cutting device update	07/03/2018	Scienza S.	VISTO	
REV.	MODIFICA	DATA	FIRMA	APPR.	



SOST. IL : SOST. DA : FILE :ELS.1123.dwg

FS360 motorized carriage

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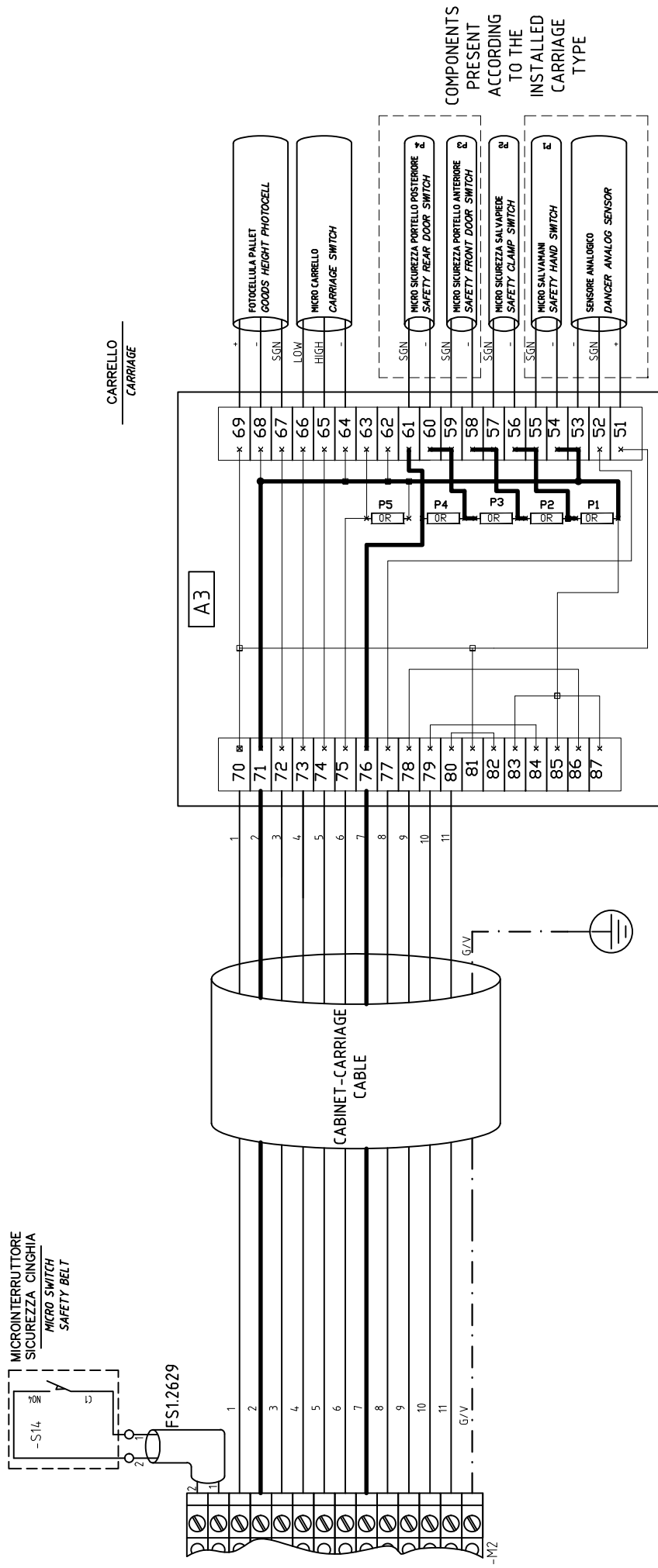
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# FS360 Safety Line: E3 Error (2/2)



COMPONENTS PRESENT ACCORDING TO THE INSTALLED CARRIAGE TYPE

REV.	MODIFICA	DATA	FIRMA	APPR.	SOST. IL :	SOST. DA :	FILE	5	6	7	8	9
0		15/10/2018	Scienza S.	DATA	06/03/2017							
1		20/08/2018	Scienza S.	DESIGN	SCIOENZA S.							
2		07/03/2018	Scienza S.	VISTO								
3				APPR.			FILE :ELS.1123.dwg					
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FS360 motorized carriage

ELS.1123

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FG. 17	F.S.17
F.T. 17	F.T. 17