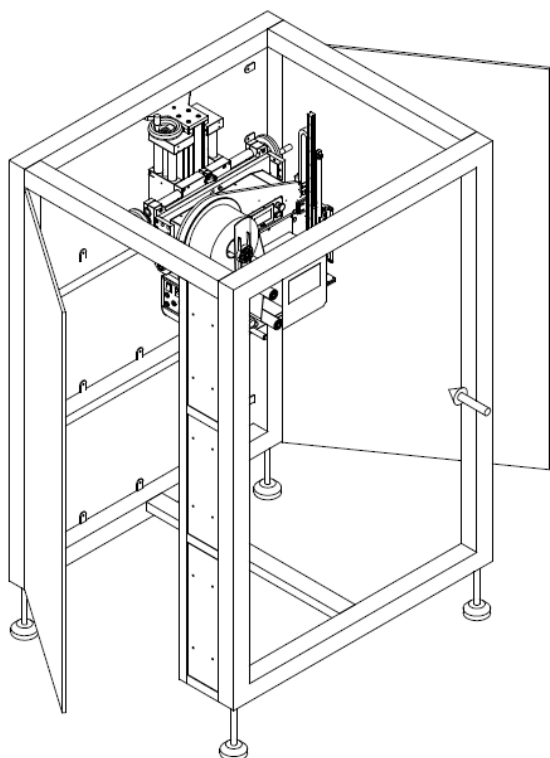




EPACKAGING[®] SRL
PRODUCTION SYSTEMS LABELING

USER MANUAL

APPLICATOR URANO N TOUCH



| | | |
|---|---------------------------|--|
|  EPACKAGING [®] SRL PRODUCTION SYSTEMS LABELING | |  made in Italy |
| SERIAL NUMBER | YEAR 2016 | |
| VOLT/AMP 230 Vac +T / 1A | PRESS MAX 8 bar | |
| WATT 250 | PRESS LAV 6 bar | |
| Via D'Annunzio, 5/7 - 20835 MUGGIO' (MB) Tel. 039.2781718 r.a. - Fax 039.2781722 www.epackagingsrl.com | | |

E-Packaging S.R.L.

Via d'Annunzio 5/7

Muggiò (MB)

Phone: +39 039 2781718 Fax: +39 039 2781722

E.mail info@epackagingsrl.com

CE Conformity declaration



The manufacturer

E-PACKAGING S.R.L.

Via D'Annunzio n° 5/7
Muggiò 20835
Monza Brianza

Declares on its responsibility that

Model "URANO N TOUCH "

Serial nr n°

Year of manufacturing 2016

Direttiva 2006/42/CE del Parlamento Europeo e del Consiglio del 17 maggio 2006 relativa alle macchine e che modifica la direttiva 95/16/CE.
Direttiva 2004/108/CE del Parlamento Europeo e del Consiglio del 15 dicembre 2004 concernente il riavvicinamento delle legislazioni degli Stati membri relative alla compatibilità elettromagnetica.

Direttiva 2006/95/CE del Parlamento Europeo e del Consiglio del 12 dicembre 2006 concernente il riavvicinamento delle legislazioni degli Stati membri relative al materiale elettrico destinato ad essere adoperato entro taluni limiti di tensione.

Riferimento norme armonizzate:
EN 12100-1; EN 12100-2; EN 60204-1

Muggio': 19/12/2016

Il responsabile
Claudia Colafrancesco

1. COMMANDS DESCRIPTION

6.1 PAGE DESCRIPTION



When you switch on the machines, the following icons will be displayed

To put in the auxiliaries, resetting the emergency button and next pushing the button for enabling the white clear leds.

In this page there are the commands for managing that part of the equipment which is devoted to the application of printed labels.

START CYCLE

It starts automatic cycle for label application.

After pushing this button, the start cycle is enabled only if the machine is in PAUSE, inhibited valves and piston IN.

At this stage the machine will send a signal for printing label to the printer, and this one will start printing.

STOP CYCLE

This button reset all the faults and records relevant to the machine functioning cycle.

LABEL SENSOR

This selector enables or disables the label presence reader on the pad.

MENU

This button is needed for recalling pages where are stored the datas to set for personalising the working cycle.

In this page you have also an area where short messages can be displayed.

1. COMMANDS DESCRIPTION

6.1 PAGES DESCRIPTION



CYCLE MODE

This applicator is able to work in different modes, which can be selected through this selector of numerical type.

Mode 0

The sensor detects the product and the applicator prints and applies the label on the moving or stopped product.

Mode 1

The applicator prints the label and when detecting the product , the application procedure is launched.

Mode 2

Not enabled

Mode 3

The applicator prints the label but the vacuum is activated just at the end of the label distribution. After seeing the label,the applicator starts the application procedure.

TIME IS EXPRESSED IN MSEC

Use the arrows for changing page.

1. COMMANDS DESCRIPTION

6.1 PAGES DESCRIPTION



DELAY APPLICATOR ACTIVATION

This time manages the delay activation of the applicator once label is distributed.
ALL TIME ARE EXPRESSED IN M/SEC

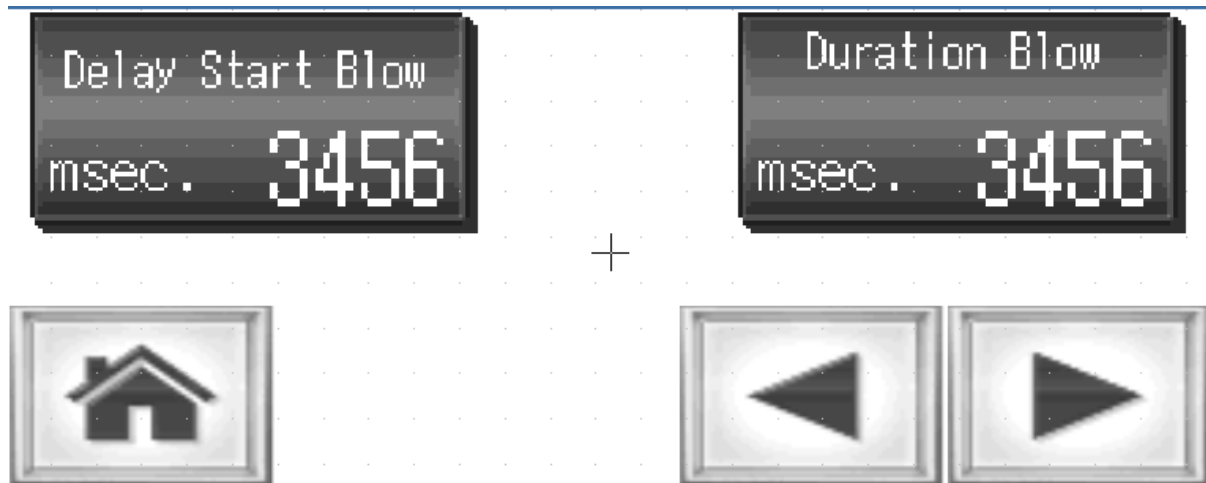
DELAY DISACTIVATION APPLICATOR

This time manages the delay of the piston back course after the intervention of the sensor positioned on the pad, or the sensor which checks the position in face of the piston applicator.
ALL TIME ARE EXPRESSED IN M/SEC

Use the arrows for changing page.

1. COMMANDS DESCRIPTION

6.1 PAGES DESCRIPTION



AIR SHOT DELAY

Delay time for starting air shot expressed in m/sec.

AIR SHOT LASTING TIME

Air shot lasting time expressed in m/sec

Use the arrows for changing page.

1. COMMANDS DESCRIPTION

6.1 PAGES DESCRIPTION



CHECK ON / OFF

And the selector that enables the alarm pre roll end.

RESET TELLER

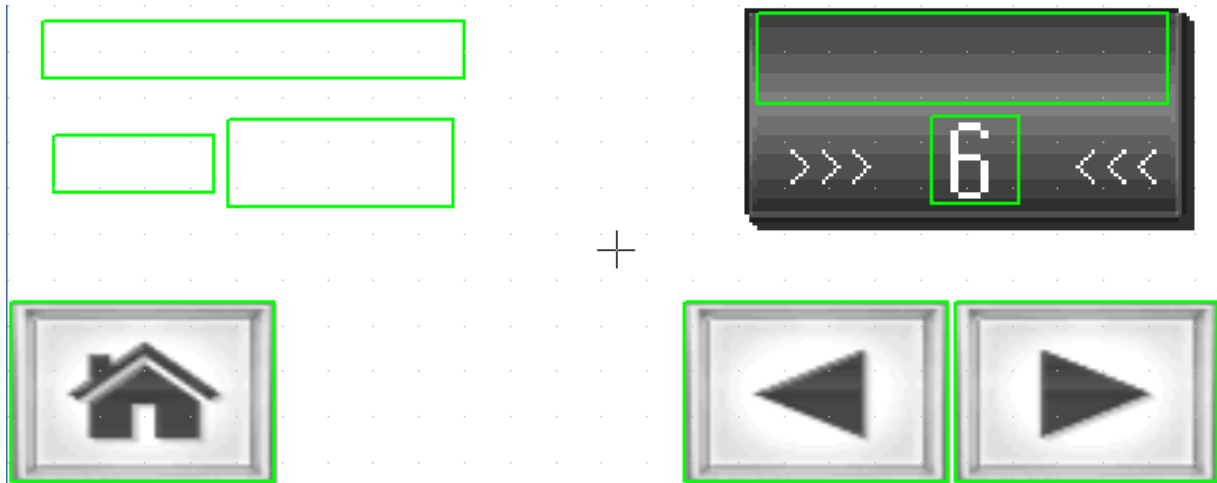
Is the button which resets the counter labels

NUMBER PIECE PRE-END REEL

Set the number of labels after the alarm pre ans rell end

1. COMMANDS DESCRIPTION

6.1 PAGES DESCRIPTION



BIT PRINTER

It's possible to clarify the signal type activated by the printer when a fault occurs.

BIT PRINTER ON = SET "0"

BIT PRINTER OFF= SET "1"

This because few printers make a bit higher when they display FAULT, others make bit lower.

Use the arrows for changing page.

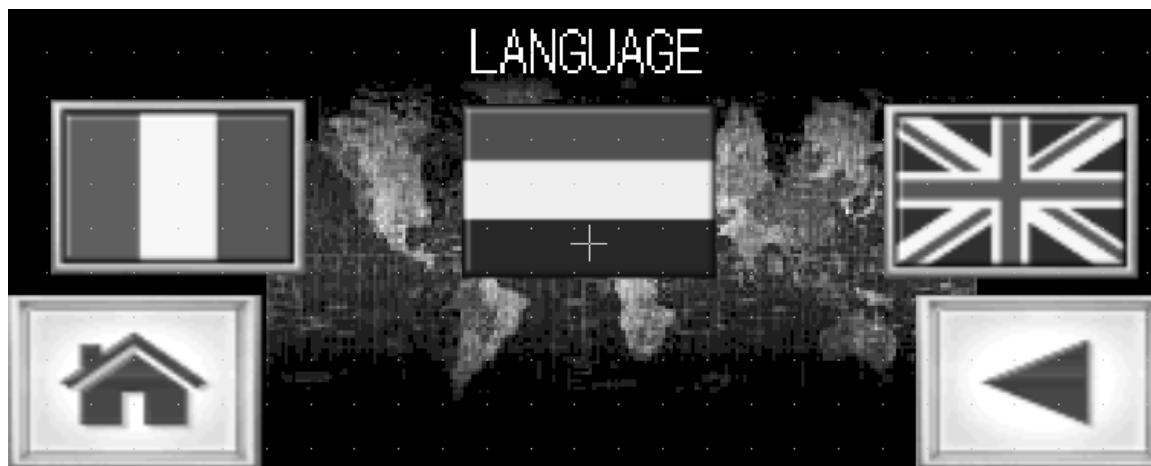
1. COMMANDS DESCRIPTION

6.1 PAGES DESCRIPTION



In this page we have two counters, one can be set to zero, the other no.

Use the arrows for changing page.



In this page you can choose the language.

ITALIAN
NEDERLANDS
SPANISH
ENGLISH

6. SECURITY

6.1 GENERAL ADVICES

The applicator URANO N must be used only by authorised personnel.

The applicator is furnished with security systems (active and passive): all these systems help prevent dangers while using the equipment.

E-PACKAGING SRL grants that all components have been installed following security procedures.

E-PACKAGING SRL cannot foresee any circumstance able to generate a danger.

Once methods or means not recommended by E-PACKAGING SRL are used, make sure they are not affecting the work of the machine



ATTENTION! Applicator is projected for allowing an ergonomical work for the operator.



ATTENTION! The presence of security system in any case pushes the personnel to work paying attention to the machine and not putting himself in damaging risky situations.



ATTENTION! Personnel protections must be worn by the people working on the equipment.



ATTENTION! Don't modify, change, or sabotage the applicator security systems.

6.2 USES CORRECT AND INCORRECT

ATTENTION! The applicator must be used only for the fabrication purposes.

E-PACKAGING SRL declines every responsibility for damages due to people or things incorrectly.

6.3 EMERGENCY BUTTONS

The machine has emergency buttons of auto-mechanical set, in red colour, on yellow block, as per normative UNI EN ISO 13850:2007 , when pulling, the machine is not free to work

6.4 ELECTRICAL PLANT PROTECTION

The electrical plant has been manufactured so to protect the operators from the risk of electrical damages and others.

All the metallic parts which can be accessed are connected with the protection circuit, so to avoid damages coming from whichever isolation.

All the disposals are impermeable to liquid or steams.

Also there are special protections so to avoid damages due to overvoltages.

When cutting the electrical power, the machine stops.



ATTENTION! To the purpose that protection of electrical plant are effective, it is necessary that the machine is connected to a power supply system external, provided with protection system against overvoltages.



ATTENTION! On the electrical panel cover, you have ads type ATTENTION

6.5 PROTECTION OF THE PNEUMATIC PLANT

The pneumatic plant has been manufactured so to protect the operators from the risk of electrical damages and others. All the component are dimensioned for a working max pressure; furthermore the plant foresees a pressure gauge, which comes in when the pressure line goes down the min.value for a good work.

6.6 PROTECTION OF MOVING PARTS

There are risk of collision, intruding, pulling if the security distances are not respected.

6.7 APPLIATOR COMMANDS CIRCUIT

The applicato mod. URANO N is convenient to the normative CEI EN 60204-1:1998 and satisfy the following procedures

- The circuit of emergency stops all the machine parts moving; when starting the actuators of the commands in circuit of stop doesn't restart automatically the machine. The commands for emergency stop are made as per normative UNI EN ISO 13850:2007;
- la removal of electrical and pneumatic power supplies don't damage the machine and when restarting them, the machine is not restarting again;
- The restarting of the machine after every stop-functional,emergency etc– requires a specific command for restarting the machine.

6.8 DAMAGES LEAVINGS AND DANGEROUS AREAS

Here it is a list of damages eventually

| DAMAGES | CAUSES | REMEDIES |
|--|---|--|
| Damage caused by compressed air out,material or other leavings | Interruption: <ul style="list-style-type: none"> • Passages tubes cut • Weared material | To replace immediately the most urgent parts. |
| DAMAGES FROM VIBRATIONS | Transmission system breakage | The machine has been projected for min.vibrations. |
| COLLAPSING DAMAGES Attachment 1.3.8.B | ▪ | |
| | | |

6.9 ATTENTION AND ADVICES FOR THE OPERATORS

The operators must be aware of the risks engendrating by their work.



ATTENTION! Don't enter unauthorised personnel in the working area.



ATTENTION! Not complying with security advices could cause accidents while working



ATTENTION! If the operator doesn't pay attention to damages advice, he may incurr in consequences for himself and other people.



ATTENTION! Damages and modification not proper can modify the protection capacity of the equipment.

7. MAINTENANCE

The applicator mod. URANO N has been projected so to cut to minimum the maintenance operations. One intervention is due after 1 year works so to verify the integrity and efficacy of all the systems.



ATTENTION! Before every intervention is necessary to switch off the equipment.
Cut off the power supply.



ATTENTION! Interventions have to be done by authorised and qualified personnel.



ATTENTION! Don't access unauthorised personnel when machine works



ATTENTION! The operator must wear proper pieces .



ATTENTION! Advice if any maintenance work is carrying out.



ATTENTION! After maintenance, re-positionate all teh parts where they originally were.

7.1 INTERVENTION ON THE MACHINE

All interventions must be verified when machine is off, by authorised personnel.



ATTENTION! Don't make any intervention of the equipment and check always that selectors are disabled.

7.2 PERIODICAL MAINTENANCE

PERIODICAL CHECKS

- Monthly check all the screws are properly screwed.
- Monthly check the integrity of air tubes and no air losses existing.
- Every 2 months check the air filter and replace if dirty.
- Monthly check the integrity of electrical cables, when machine is switched off. If damaged, replace them..

MACHINERY CLEANSING

After 8 working hours, cleanse the machine from leavings. Don't use abrasive material.



ATTENTION! Wear face protection mask for avoiding inhalation of vapors or liquids

8. OUT OF ORDER

If the machine is not more in function, remove it from its site and prevent personnel.

8.1 DISPOSE OF WASTE

Most of the machine component can be recycled.
Then separate all the material parts and use proper waste.

- Machine structure

*Aluminium (Al)
Iron (Fe)*

- Electronic, pneumatic parts.

*Glassresin
Polietilene (PE)
Ultramid (PA)
Trogamid (PA)
Vulkollan (PU)
Hostaform (POM)
Delrin (POM)
Perbunan (N)
Poliuretane (PU)*

All the materials are not toxic for the operators health and can be handled without specific measures



ATTENTION! The dispose of waste must be done by qualified personnel as per normative existing.



ATTENTION! If dismatling the equipment for moving to other site, contact EPACKAGING.

9. ATTACHMENTS

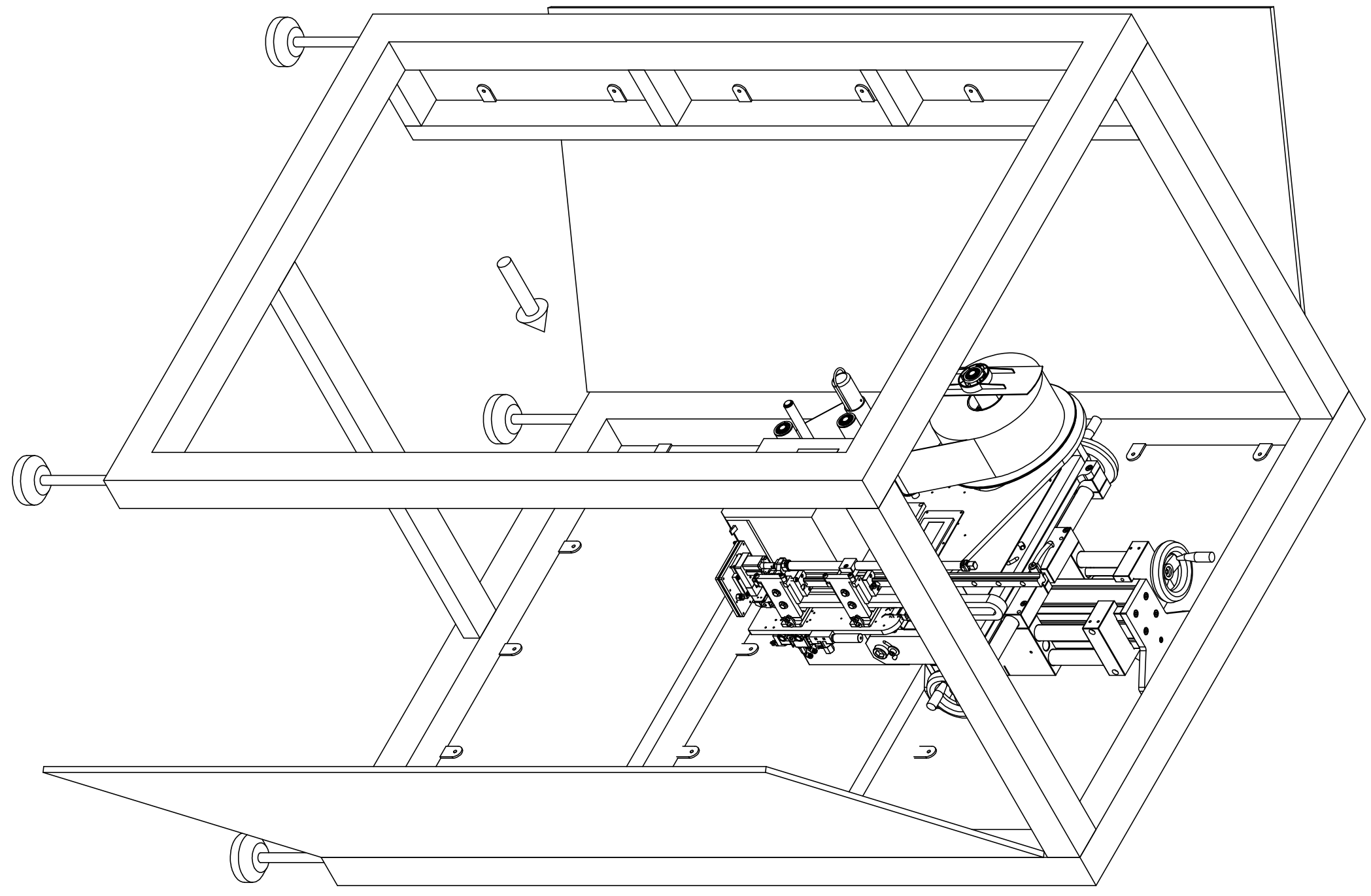
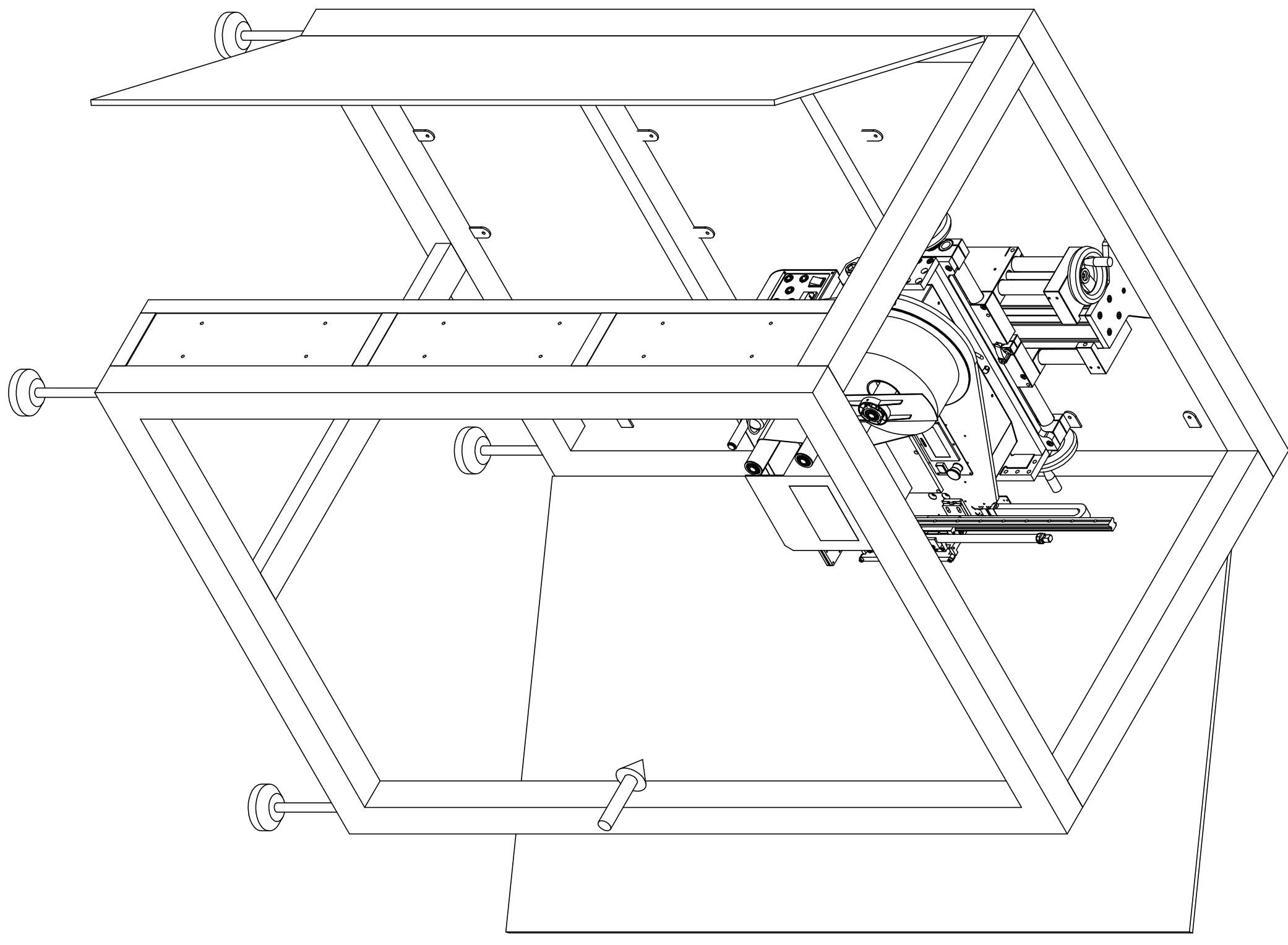
9.1 ATTACHMENTS

Form an integral part of this manual the following attachments:

- Layout of the machine;
- CD printer zebra
- Electric scheme
- Manual photocell

| Classe di tolleranza | | Scostamenti limite per dimensioni lineari | | | | | | | TOLL. GEN. perpendicolarità | | | | TOLL. GEN. parallelismo planarità, rettilineità | | | | | TOLL. GEN. concavità o convessità | | | | | |
|----------------------|------------|---|---------|----------|------------|-------------|--------------|---------------|-----------------------------|-------------------|--------------------------------|--------------|---|--------------|-------------------|-----------------------------|------------|-----------------------------------|--------------|---------------|----------------------|-----------------------------------|-----|
| Design. | Denominaz. | 0,5 3 | >3 6 | >6 30 | >30 120 | >120 400 | >400 1000 | >1000 2000 | >2000 4000 | Classe di toller. | campi di lunghezza lato minore | | | | Classe di toller. | campi di lunghezza nominali | | | | | Classe di tolleranza | oscillazione circolare consentita | |
| f | fine | ±0,05 | ±0,05 | ±0,1 | ±0,15 | ±0,2 | ±0,3 | ±0,5 | fino a 100 | | >100 300 | >300 1000 | >1000 3000 | fino a 10 | | >10 30 | >30 100 | >100 300 | >300 1000 | >1000 3000 | | | |
| | | | | | | | | | | H | 0,2 | 0,3 | 0,4 | 0,5 | H | 0,02 | 0,05 | 0,1 | 0,2 | 0,3 | 0,4 | H | 0,1 |

TOLLERANZE GENERALI secondo tabelle UNI-ISO 2768



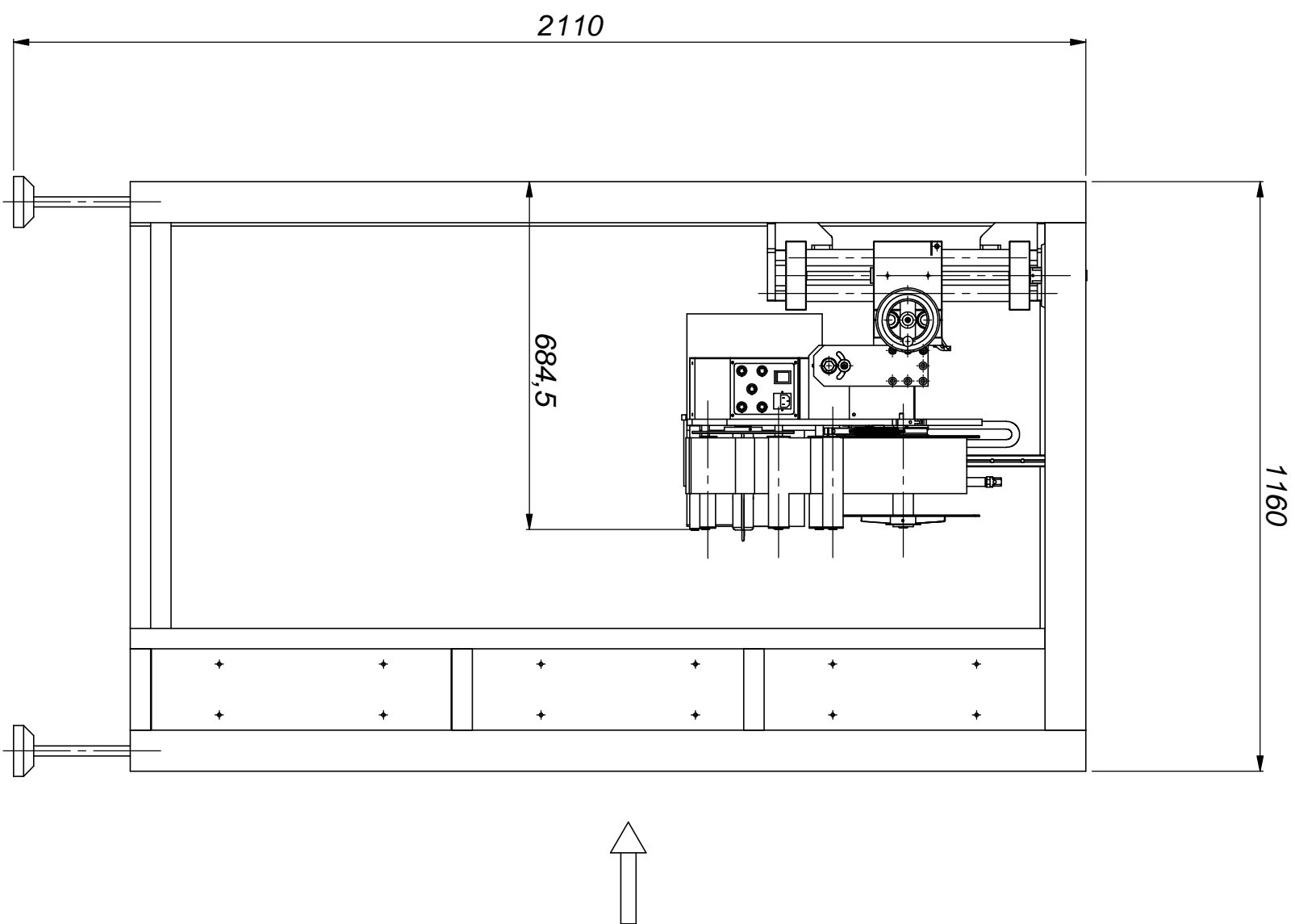
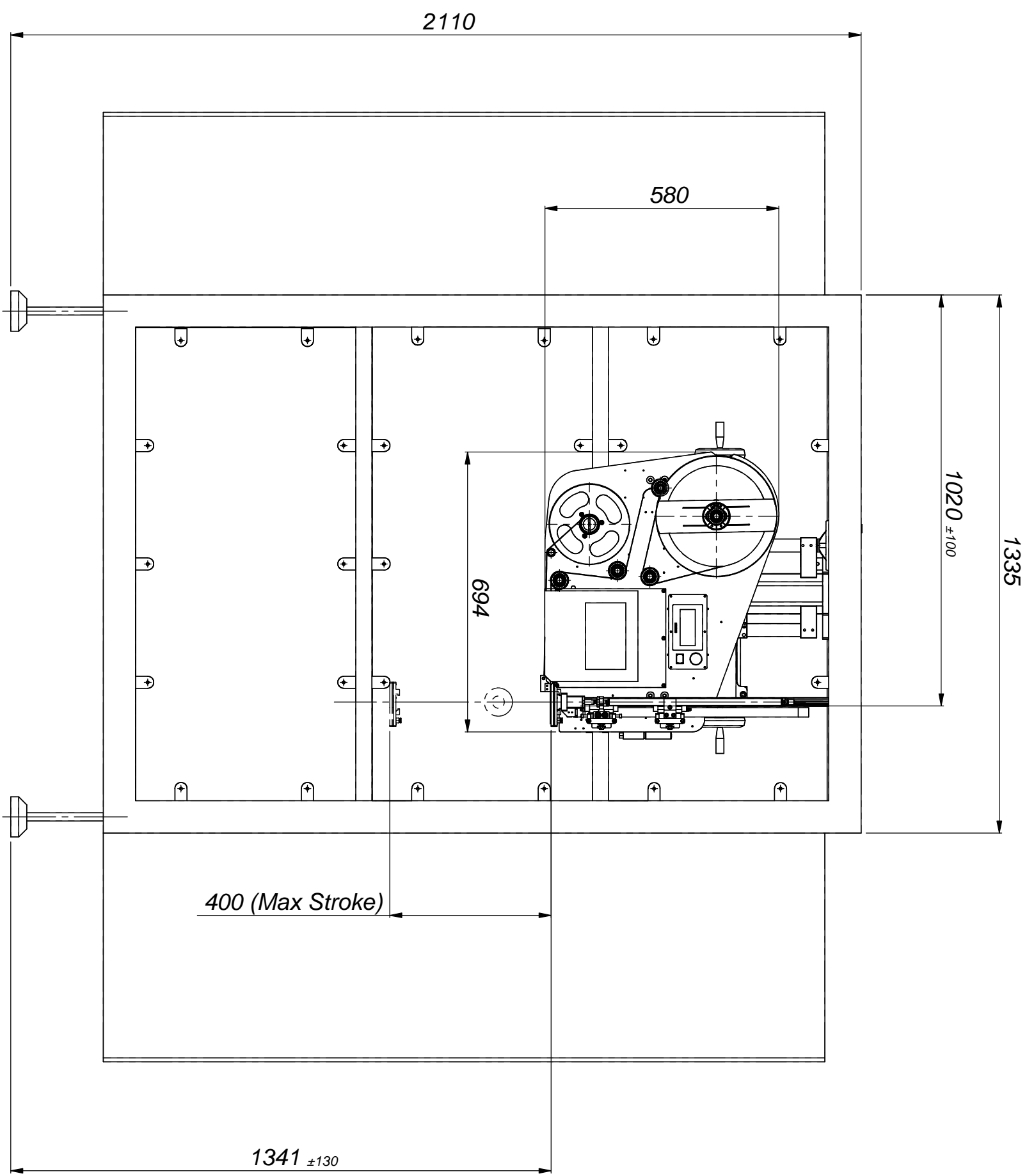
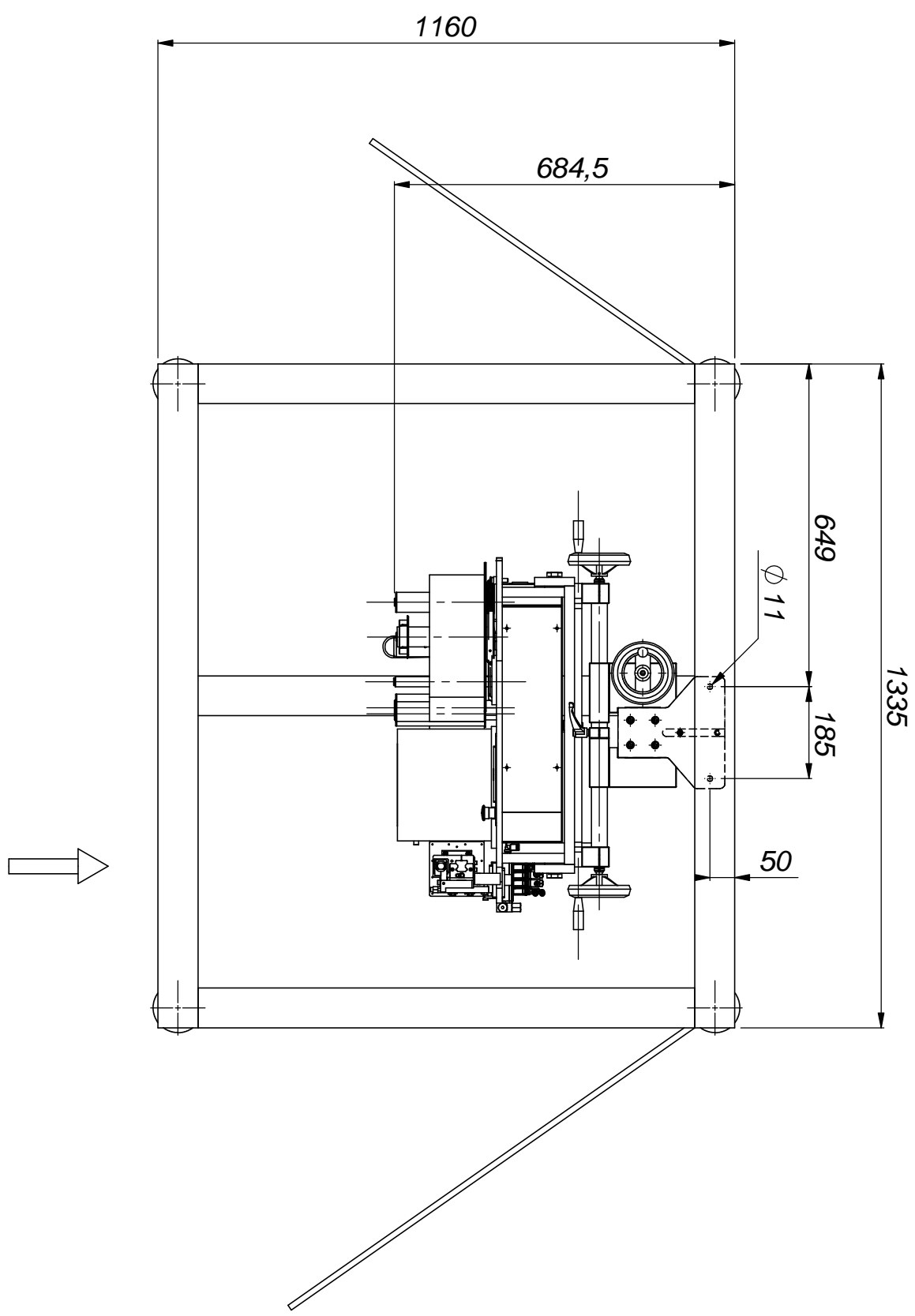
32 / Ra generale

| | | | |
|--|---------|---------------------------|-------------|
| Costruire | | N. | N. |
| Fam. | Peso g. | Commessa | Disegno N. |
| A2 | | 1111/2016 | 11112016000 |
| Materiale / Dim. | | Descrizione | |
| See Part List | | Layout P&A URANO N - SATO | |
| Trattamento | | Gruppo / Asieme | |
| - | | | |
| E-PACKAGING SRL Produzione sistemi di etichettatura | | | |
| Via G. D'Annunzio 5/7 - 20855 Magglio (MI) - Italy | | | |
| Tel. +39 039 2781718 ra. - Fax +39 039 2781722 @ info@epackaging srl.com | | | |
| Nome | | Data | |
| Fabrizio Panzeri | | 18/10/2016 | |
| Scala | | Fot. | |
| 1:10 | | - | |
| Revisione | | Q.tà | |
| | | | |

Ultima modifica:

| Classe di tolleranza | | Scostamenti limite per dimensioni lineari | | | | | | | TOLL. GEN. perpendicolarità | | | | TOLL. GEN. parallelismo planarità, rettilineità | | | | | TOLL. GEN. concavità o convessità | | | | | |
|----------------------|------------|---|---------|----------|------------|-------------|--------------|---------------|-----------------------------|--------------------------------|---------------|-------------|---|-----------------------------|-------------------|--------------|-----------|-----------------------------------|-----------------------------------|--------------|---------------|----------------------|-----------------------------------|
| Design. | Denominaz. | 0,5 3 | >3 6 | >6 30 | >30 120 | >120 400 | >400 1000 | >1000 2000 | >2000 4000 | campi di lunghezza lato minore | | | | campi di lunghezza nominali | | | | | oscillazione circolare consentita | | | | |
| f | fine | ±0,05 | ±0,05 | ±0,1 | ±0,15 | ±0,2 | ±0,3 | ±0,5 | -- | Classe di toller. | fino a 100 | >100 300 | >300 1000 | >1000 3000 | Classe di toller. | fino a 10 | >10 30 | >30 100 | >100 300 | >300 1000 | >1000 3000 | Classe di tolleranza | oscillazione circolare consentita |
| H | h | | | | | | | | | H | 0,2 | 0,3 | 0,4 | 0,5 | H | 0,02 | 0,05 | 0,1 | 0,2 | 0,3 | 0,4 | H | 0,1 |

TOLLERANZE GENERALI secondo tabelle UNI-ISO 2768



32 / Ra generale

| | | | |
|---|--|-------------------------------------|----|
| Costruire | | N. | N. |
| Fam. | | A2 | |
| Trattamento | | -/- | |
| Materiale / Dim. | | See Part List | |
| E-PACKAGING SRL | | Produzione sistemi di etichettatura | |
| Via G. D'Annunzio 5/7 - 20835 Magglio (MI) - Italy | | Nome | |
| Tel. +39 039 2781718 r.a. - Fax +39 039 2781722 @ info@epackaging srl.com | | Codice | |
| 11112016 | | 18/10/2016 | |
| 11112016000 | | 11/11/2016 | |
| Layout P&A URBANO N - SATO | | Descrizione | |
| Gruppo / Assem. | | 11112016000 | |

E-PACKAGING S.R.L.

COMM.:1111 MATR: 20029/16

MACHINE : SATURNO "URANO N TOUCH"

CLIENT: "REFLEX"

E-PACKAGING S.R.L.

| | |
|-----------|---------------|
| DATE | 01/12/2016 |
| DESSINAT. | Mauro Pennati |
| CONTR. | Mauro Pennati |
| APPR. | Mauro Pennati |

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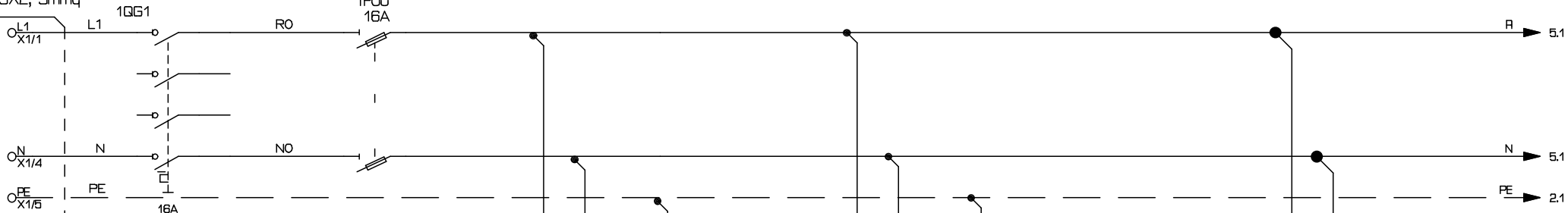
MACHINE
SATURNO URANO N

TITLE _____

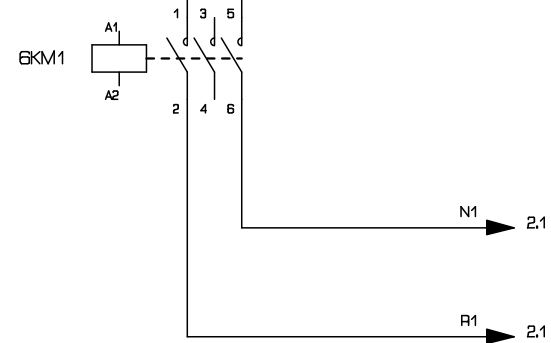
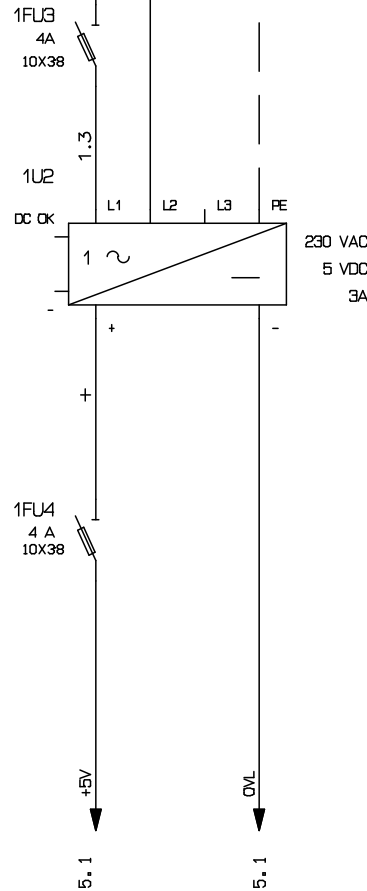
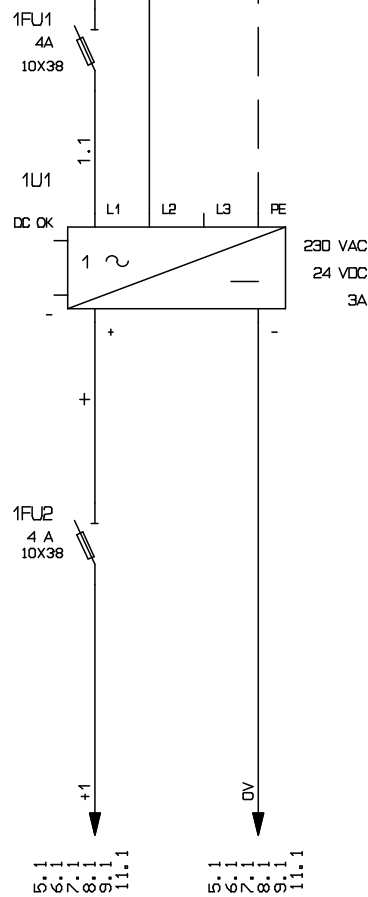
FG. 0

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| EXEC. LE : | EXEC. PAR : | FILE : | N° DESSIN : | N° ORDRE : | F.S. 1 |
|------------|-------------|--------|-------------|------------|--------|

CABLE 5X2, 5mmq



230V+T/50HZ
POWER LINE



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| | |
|---------|---------------|
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| VISTO | Mauro Pennati |
| APPR. | Mauro Pennati |

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EXEC. PAR :

FILE :

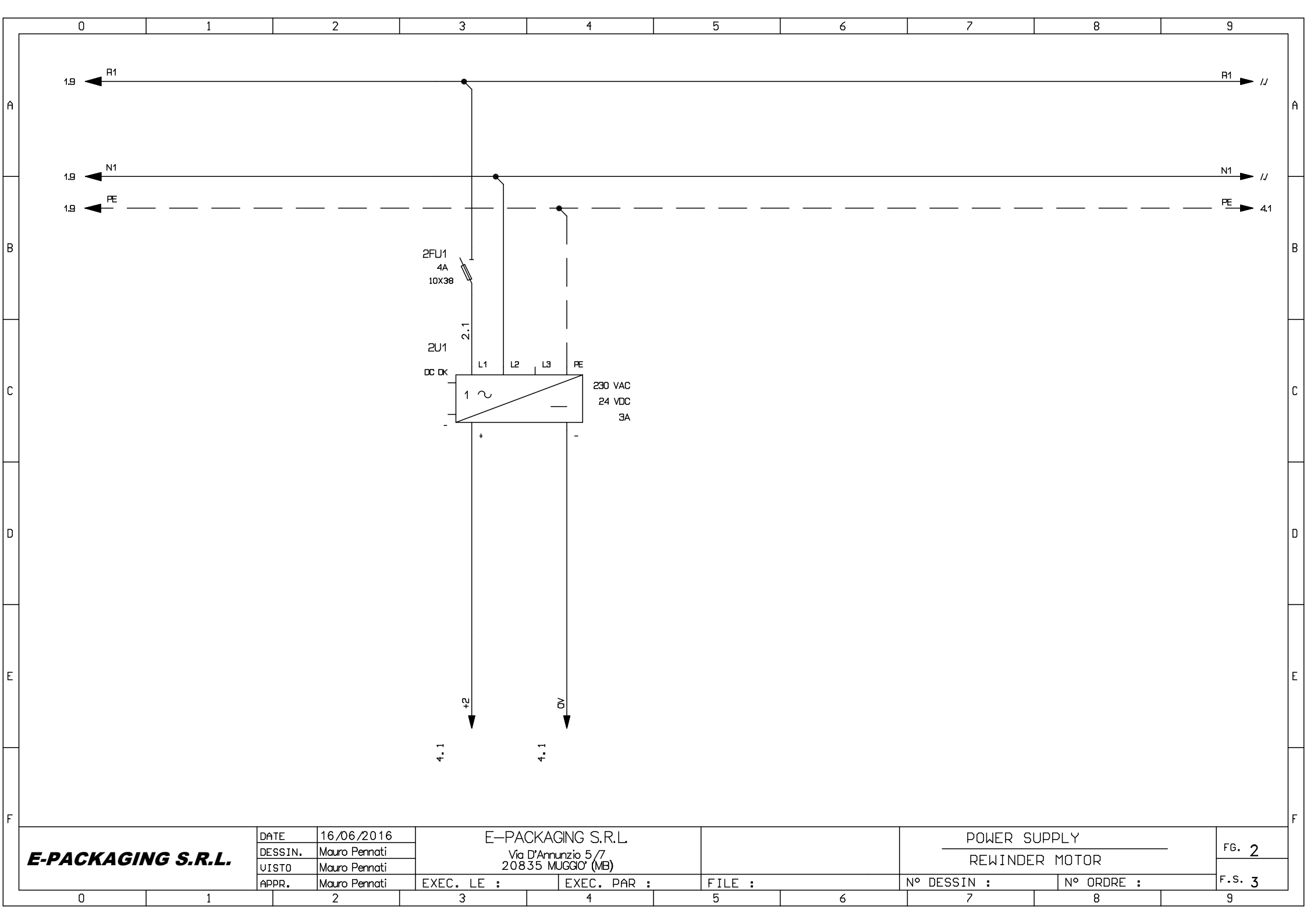
POWER LINE

N° DESSIN :

N° ORDRE :

FG. 1

F.S. 2



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| | |
|---------|---------------|
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| VISTO | Mauro Pennati |
| APPR. | Mauro Pennati |

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EXEC. LE :

EXEC. PAR :

FILE :

N° DESSIN :

N° ORDRE :

FG. 2

F.S. 3

0 1 2 3 4 5 6 7 8 9

A

A

B

B

C

C

D

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E

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F

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E-PACKAGING S.R.L.

| | |
|-----------|---------------|
| DATE | 13/05/2016 |
| DESSINAT. | Mauro Pennati |
| CONTR. | Mauro Pennati |
| APPR.. | Mauro Pennati |

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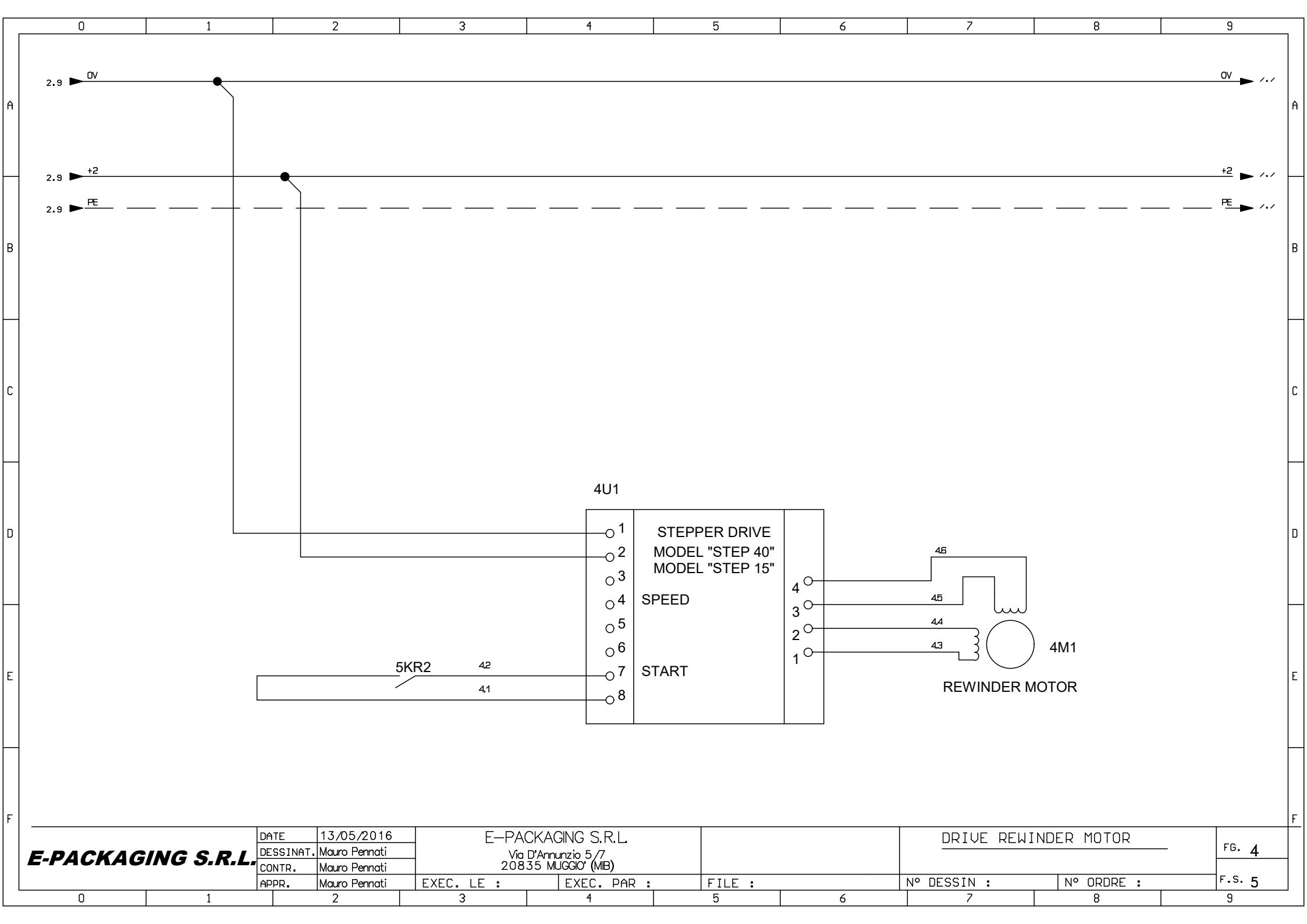
NOT USED

FG. 3

| | | | | |
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F.S. 4

0 1 2 3 4 5 6 7 8 9



E-PACKAGING S.R.L.

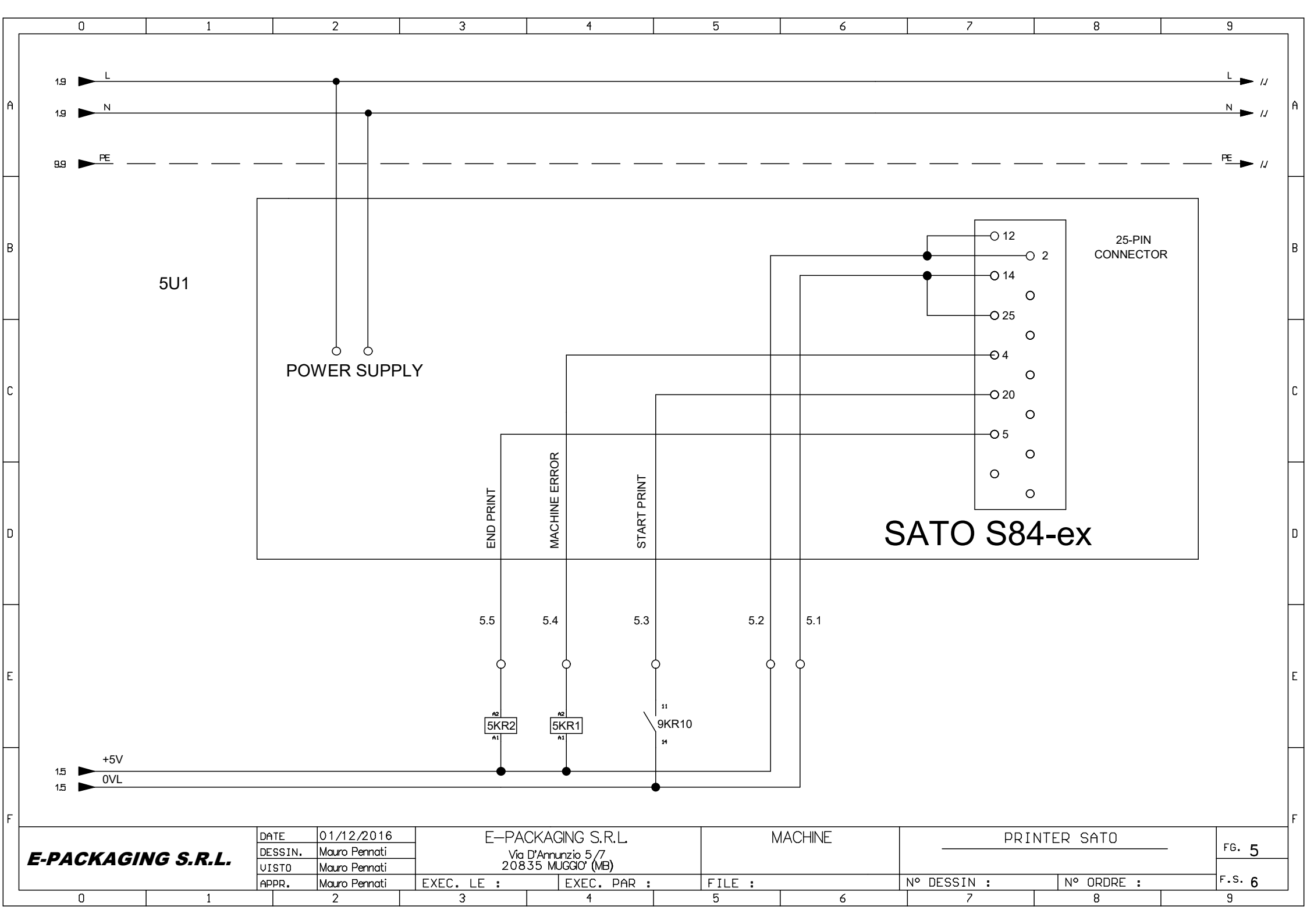
| | |
|-----------|---------------|
| DATE | 13/05/2016 |
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| CONTR. | Mauro Pennati |
| APPR. | Mauro Pennati |

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DRIVE REWINDER MOTOR

FG. 4

| | | | | | |
|------------|-------------|--------|-------------|------------|--------|
| EXEC. LE : | EXEC. PAR : | FILE : | N° DESSIN : | N° ORDRE : | F.S. 5 |
|------------|-------------|--------|-------------|------------|--------|



5U1

POWER SUPPLY

25-PIN CONNECTOR

SATO S84-ex

END PRINT

MACHINE ERROR

START PRINT

5.5

5.4

5.3

5.2

5.1

5KR2

5KR1

9KR10

E-PACKAGING S.R.L.

DATE 01/12/2016
 DESSIN. Mauro Pennati
 VISTO Mauro Pennati
 APPR. Mauro Pennati

E-PACKAGING S.R.L.
 Via D'Annunzio 5/7
 20835 MUGGIO' (MB)

MACHINE

PRINTER SATO

FG. 5

EXEC. LE :

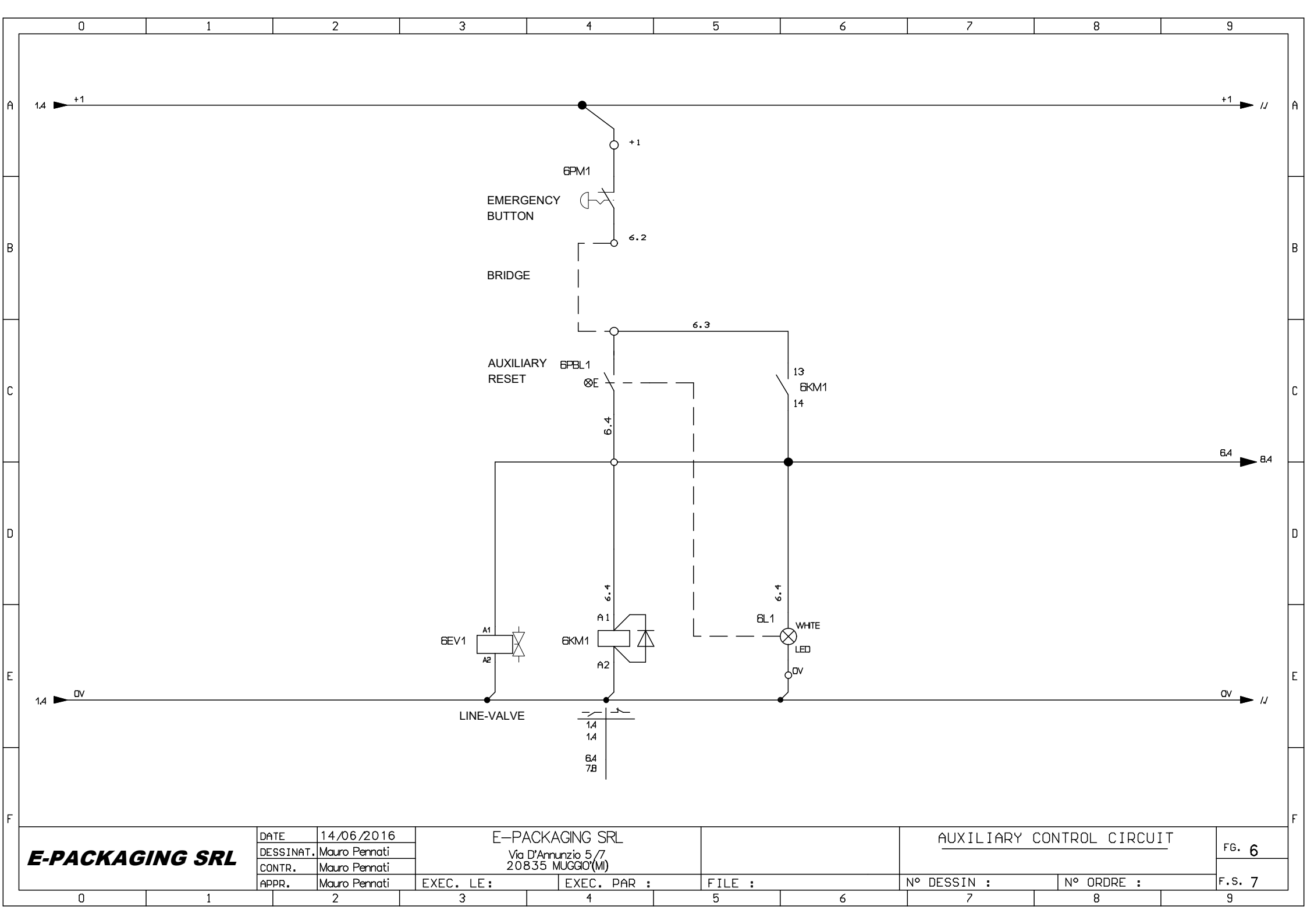
EXEC. PAR :

FILE :

N° DESSIN :

N° ORDRE :

F.S. 6



E-PACKAGING SRL

| | |
|-----------|---------------|
| DATE | 14/06/2016 |
| DESSINAT. | Mauro Pennati |
| CONTR. | Mauro Pennati |
| APPR. | Mauro Pennati |

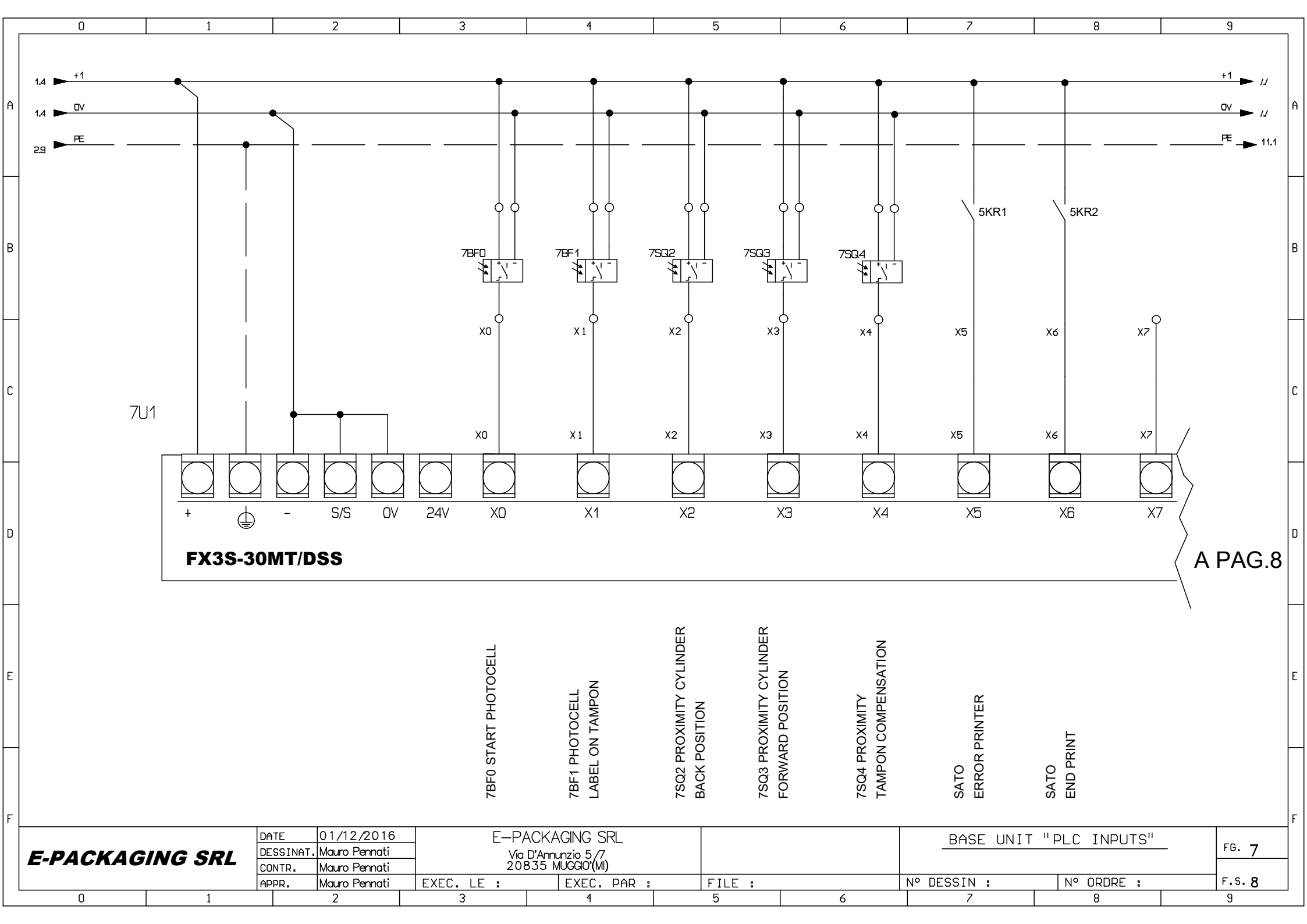
| | |
|---------------------------------------|-------------|
| E-PACKAGING SRL | |
| Via D'Annunzio 5/7 20835 MUGGIO(M) | |
| EXEC. LE : | EXEC. PAR : |

| |
|--------|
| FILE : |
|--------|

| | |
|---------------------------|------------|
| AUXILIARY CONTROL CIRCUIT | |
| N° DESSIN : | N° ORDRE : |

FG. 6

F.S. 7



A PAG.8

7BF0 START PHOTOCELL

7BF1 PHOTOCELL
LABEL ON TAMPON

7SQ2 PROXIMITY CYLINDER
BACK POSITION

7SQ3 PROXIMITY CYLINDER
FORWARD POSITION

7SQ4 PROXIMITY
TAMPON COMPENSATION

SATO
ERROR PRINTER

SATO
END PRINT

E-PACKAGING SRL

| | |
|-----------|---------------|
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| CONTR. | Mauro Pennati |
| APPR. | Mauro Pennati |

E-PACKAGING SRL
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20835 MUGGIO(M)

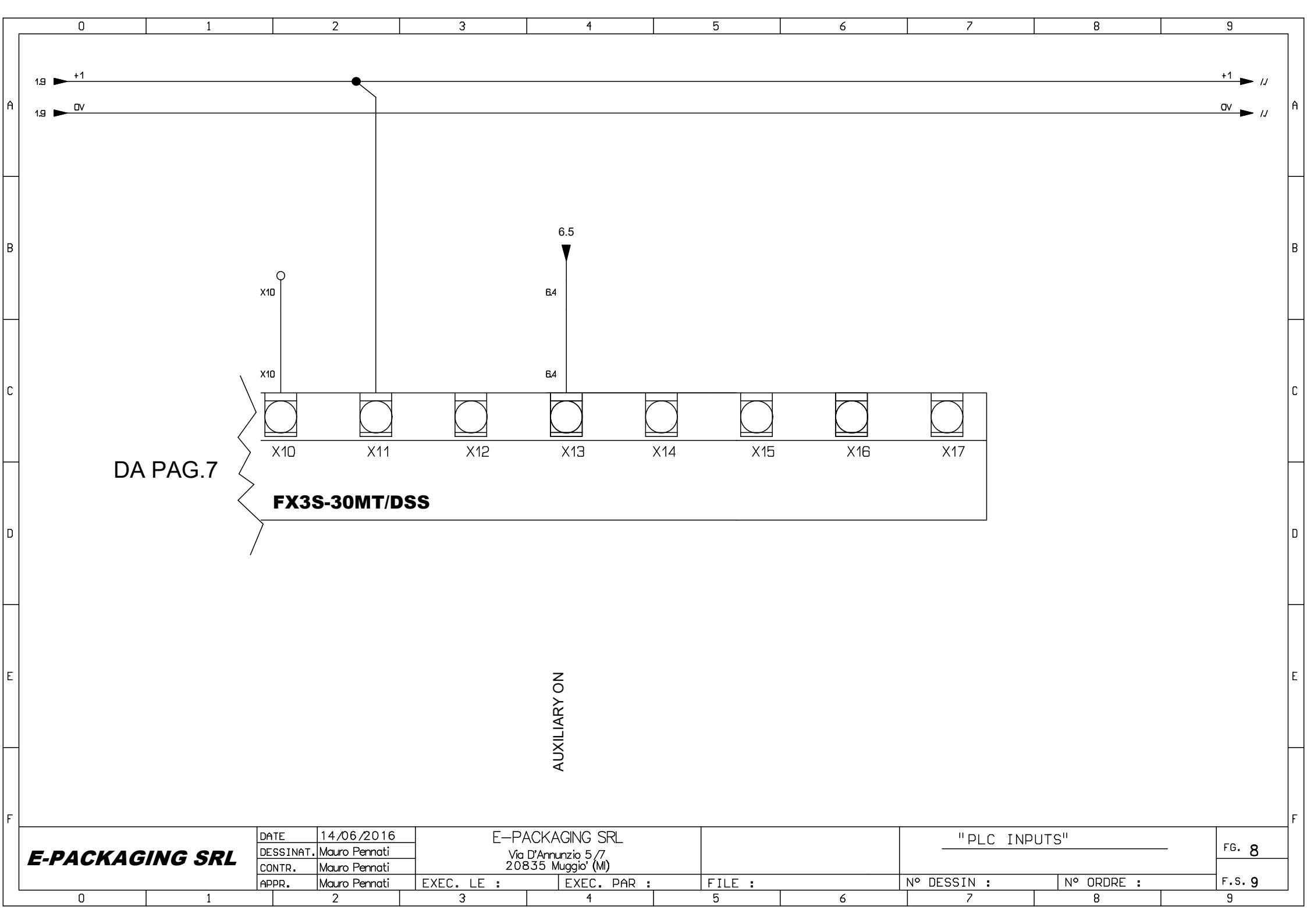
EXEC. LE : EXEC. PAR : FILE :

BASE UNIT "PLC INPUTS"

N° DESSIN : N° ORDRE :

FG. 7

F.s. 8



DA PAG.7

FX3S-30MT/DSS

AUXILIARY ON

E-PACKAGING SRL

| | |
|-----------|---------------|
| DATE | 14/06/2016 |
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| CONTR. | Mauro Pennati |
| APPR. | Mauro Pennati |

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Via D'Annunzio 5/7
20835 Muggio' (MI)

| | | |
|------------|-------------|--------|
| EXEC. LE : | EXEC. PAR : | FILE : |
|------------|-------------|--------|

"PLC INPUTS"

| | |
|-------------|------------|
| N° DESSIN : | N° ORDRE : |
|-------------|------------|

FG. 8

F.S. 9

ELECTROVALVE
CYLINDER APPLICATOR
FORWARD

ELECTROVALVE
ASSIST

ELECTROVALVE
VACUUM

ELECTROVALVE
SHOT

ELECTROVALVE
CYLINDER APPLICATOR
REVERSE

SIGNAL
END APPLICATION

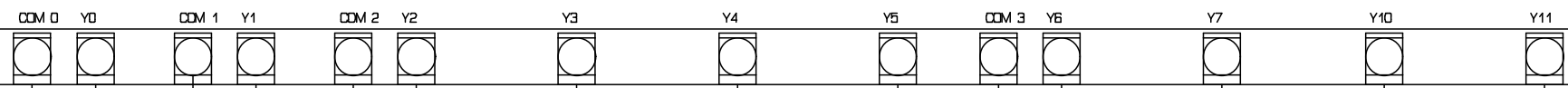
GREEN LAMP
MACHINE IN CYCLE

SIGNAL
PRINTER ALARM
(RED LAMP)

SIGNAL
START PRINT SATO

ELECTROVALVE
TAMPON ROTATION
(OPTIONAL)

FX3S-30MT/DSS



Y0

Y1

Y2

Y3

Y4

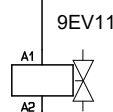
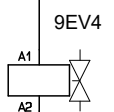
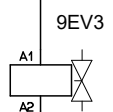
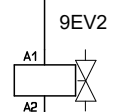
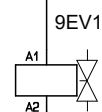
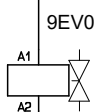
Y5

Y6

Y7

Y10

Y11



1.9 +1

1.9 0V

PAG.10

E-PACKAGING SRL

DATE 01/12/2016
DESSINAT. Mauro Pennati
CONTR. Mauro Pennati
APPR. Mauro Pennati

E-PACKAGING SRL
Via D'Annunzio 5/7
20835 MUGGIO(M)

EXEC. LE :

EXEC. PAR :

FILE :

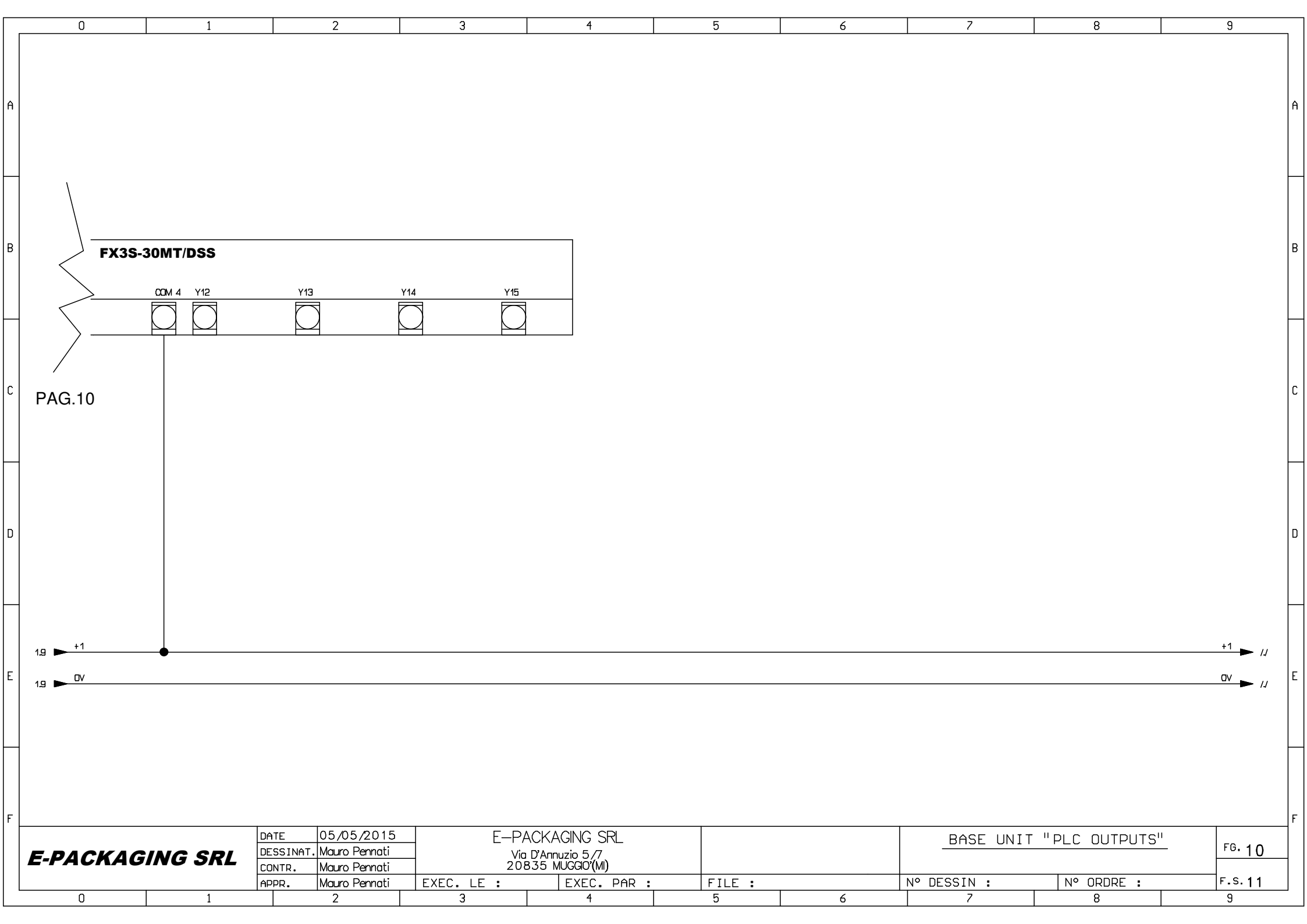
BASE UNIT "PLC OUTPUTS"

N° DESSIN :

N° ORDRE :

FG. 9

F.S. 10



FX3S-30MT/DSS

COM 4

Y12

Y13

Y14

Y15

PAG.10

19 ▶ +1

19 ▶ 0V

+1 //

0V //

E-PACKAGING SRL

| | |
|-----------|---------------|
| DATE | 05/05/2015 |
| DESSINAT. | Mauro Pennati |
| CONTR. | Mauro Pennati |
| APPR. | Mauro Pennati |

E-PACKAGING SRL
Via D'Annuzio 5/7
20835 MUGGIO(M)

EXEC. LE : EXEC. PAR :

FILE :

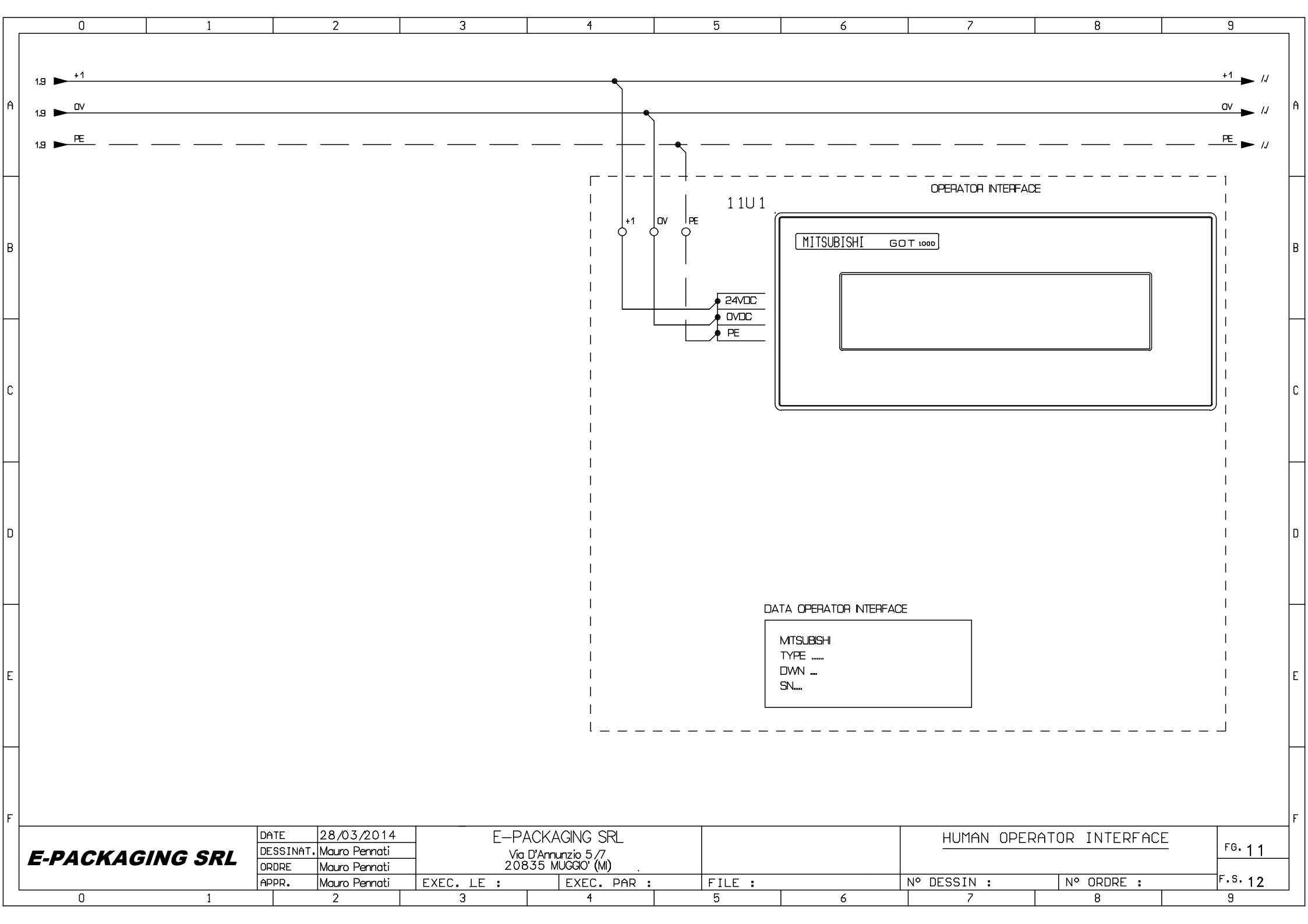
BASE UNIT "PLC OUTPUTS"

N° DESSIN :

N° ORDRE :

FG. 10

F.S. 11



E-PACKAGING SRL

DATE 28/03/2014
 DESSINAT. Mauro Pennati
 ORDRE Mauro Pennati
 APPR. Mauro Pennati

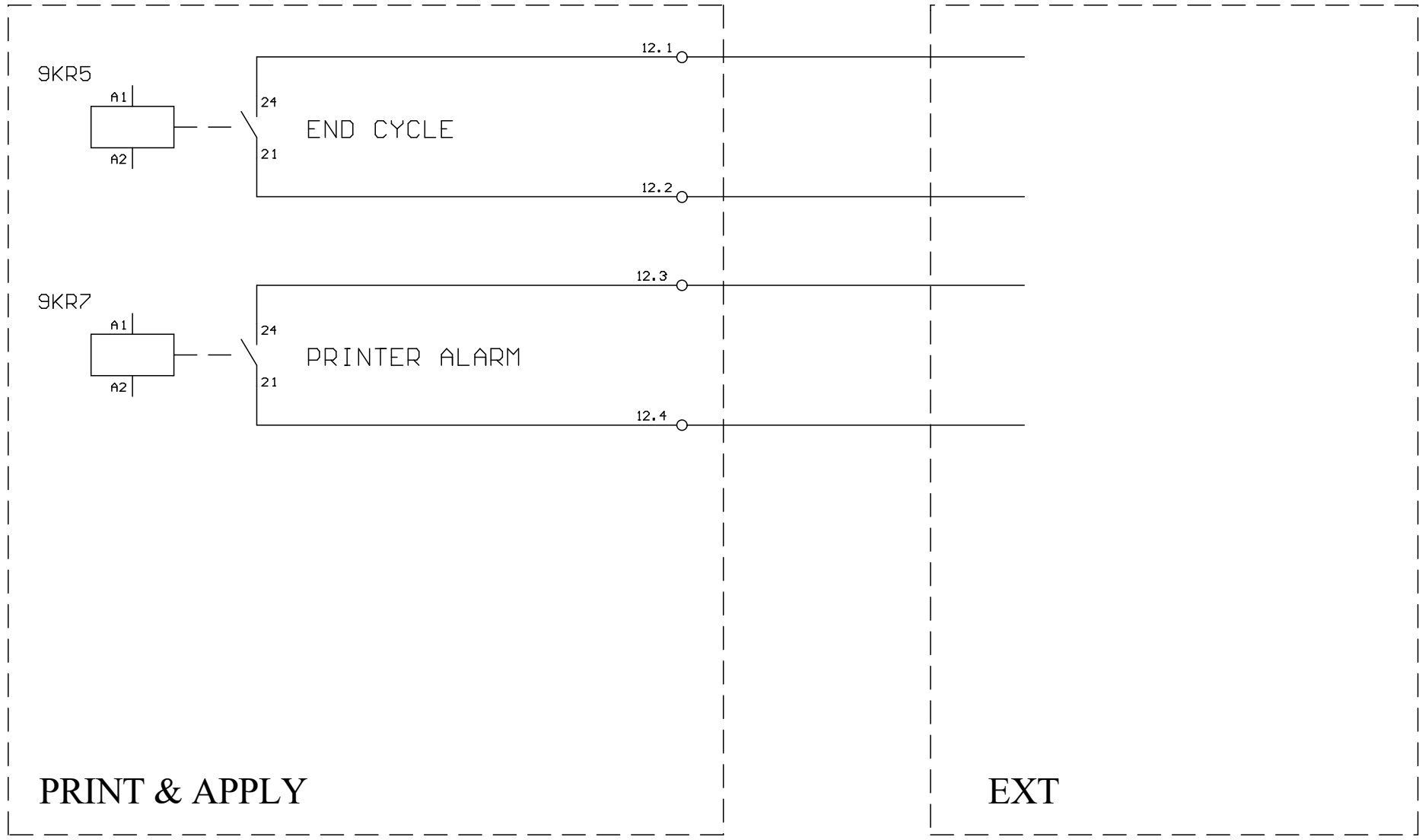
E-PACKAGING SRL
 Via D'Annunzio 5/7
 20835 MUGGIO' (MI)

EXEC. LE : EXEC. PAR : FILE : N° DESSIN : N° ORDRE :

HUMAN OPERATOR INTERFACE

FG. 11

F.S. 12



E-PACKAGING SRL

DATE 13/05/2016
 DESSINAT. Mauro Pennati
 ORDRE Mauro Pennati
 APPR. Mauro Pennati

E-PACKAGING SRL
 Via D'Annunzio 5/7
 20835 MUGGIO' (MI)

EXEC. LE : EXEC. PAR :

FILE :

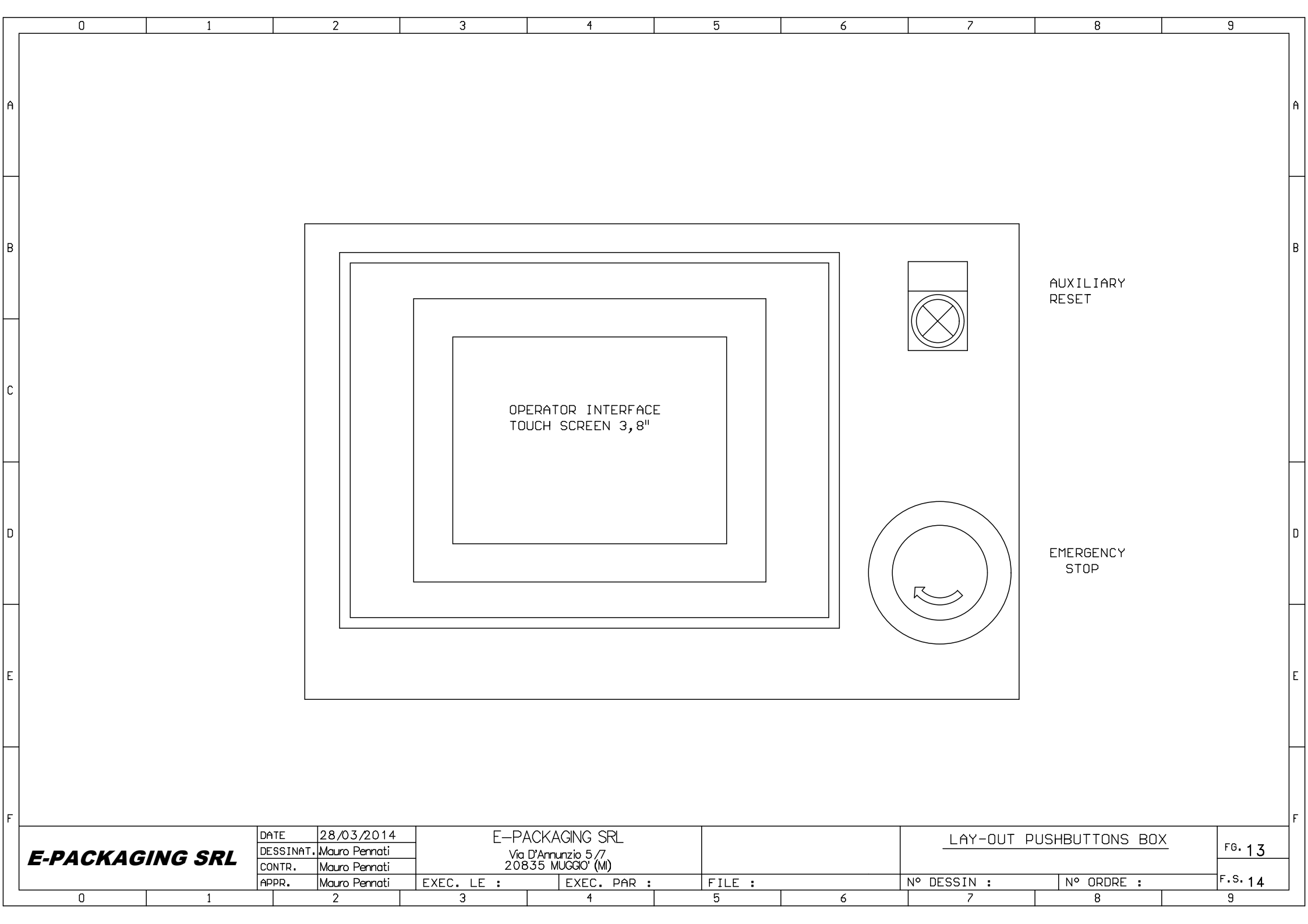
EXCHANGE SIGNALS

N° DESSIN :

N° ORDRE :

FG. 12

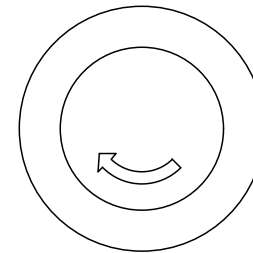
F.S. 13



OPERATOR INTERFACE
TOUCH SCREEN 3,8"



AUXILIARY
RESET



EMERGENCY
STOP

E-PACKAGING SRL

| | |
|-----------|---------------|
| DATE | 28/03/2014 |
| DESSINAT. | Mauro Pennati |
| CONTR. | Mauro Pennati |
| APPR. | Mauro Pennati |

E-PACKAGING SRL
Via D'Annunzio 5/7
20835 MUGGIO' (MI)

EXEC. LE : EXEC. PAR :

FILE :

LAY-OUT PUSHBUTTONS BOX

N° DESSIN :

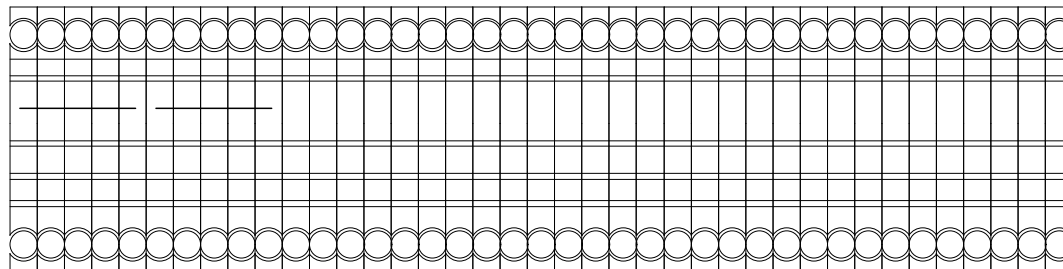
N° ORDRE :

FG. 13

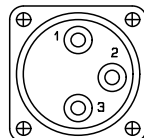
F.S. 14

WIRING CLAMPS

+1 +1 +1 +1 0V 0V 0V 0V 6.2 6.3 6.4 X0 X1 X2 X3 X4 X5 X6 X7 X10 Y0 Y1 Y2 Y3 Y4 Y6 Y7 Y11 5.1 5.2 5.3 5.4 5.5 12.1 12.2 12.3 12.4



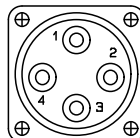
CONNECTOR 3 POLES
"START SIGNAL"



14CN1

1 ---- 0V
2 ---- +1
3 ---- X0

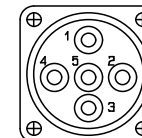
CONNECTOR 4 POLES



14CN2

1 ---- 12.1 END CYCLE
2 ---- 12.2
3 ---- 12.3 ALARM
4 ---- 12.4

CONNECTOR 5 POLES
SEMAFORO



14CN3

3 ---- 0V
4 ---- Y6
5 ---- Y7

A
B
C
D
E
F

| Name/Article | Tipo/Type | Descrizione/Description | Costruttore/Constructeur | Quadro/Tableau | Fg/Sh | Qta/Qty |
|--------------|-----------|-------------------------|--------------------------|----------------|-------|---------|
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|---------------------------|-----------|---------------|--|-------------|--------|----------------|------------|---------|--|
| E-PACKAGING S.R.L. | DATE | 28/03/2014 | E-PACKAGING S.R.L. Via D'Annunzio 5/7 20835 MUGGIO' (MB) | | | MATERIALS LIST | | Fg. 15 | |
| | DESSINAT. | Mauro Pennati | | | | | | F.S. 16 | |
| | CONTR. | Mauro Pennati | EXEC. LE : | EXEC. PAR : | FILE : | N° DESSIN : | N° ORDRE : | | |
| | APPR. | Mauro Pennati | | | | | | | |

LISTA FOGLI \ INDEX

| Foglio Sheet | Descrizione Description | Revisione \ Revision | | | | | | | | | Foglio Sheet | Descrizione Description | Revisione \ Revision | | | | | | | | | |
|--------------|------------------------------------|----------------------|---|---|---|---|---|---|---|---|--------------|-----------------------------|----------------------|---|---|---|---|---|---|---|---|---|
| | | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | | | 9 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| 1 | POWER LINE | | | | | | | | | | | EXCHANGE CONTACTS WITH LINE | | | | | | | | | | |
| 2 | ALIMENTAZIONE MOTORE RIAVVOLGITORE | | | | | | | | | | | | | | | | | | | | | |
| 3 | NOT USED | | | | | | | | | | | | | | | | | | | | | |
| 4 | DRIVE REWINDER MOTOR | | | | | | | | | | | | | | | | | | | | | |
| 5 | PRINTER SATO LT408 | | | | | | | | | | | | | | | | | | | | | |
| 6 | AUXILIARY CONTROL CIRCUIT | | | | | | | | | | | | | | | | | | | | | |
| 7 | BASE UNIT "PLC INPUTS" | | | | | | | | | | | | | | | | | | | | | |
| 8 | BASE UNIT "PLC INPUTS" | | | | | | | | | | | | | | | | | | | | | |
| 9 | BASE UNIT "PLC OUTPUTS" | | | | | | | | | | | | | | | | | | | | | |
| 10 | NOT USED | | | | | | | | | | | | | | | | | | | | | |
| 11 | HUMAN OPERATORE INTERFACE | | | | | | | | | | | | | | | | | | | | | |
| 12 | EXCHANGE CONTACTS WITH LINE | | | | | | | | | | | | | | | | | | | | | |
| 13 | LAY OUT PUSHBUTTONS BOX | | | | | | | | | | | | | | | | | | | | | |
| 14 | WIRING CLAMPS | | | | | | | | | | | | | | | | | | | | | |
| 15 | MATERIAL LIST | | | | | | | | | | | | | | | | | | | | | |
| 16 | MATERIAL LIST | | | | | | | | | | | | | | | | | | | | | |
| 17 | MATERIAL LIST | | | | | | | | | | | | | | | | | | | | | |
| 18 | PAGE LIST | | | | | | | | | | | | | | | | | | | | | |
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Note :



PZ-G62CP

Square retro-reflective M8 Connector Type, PNP

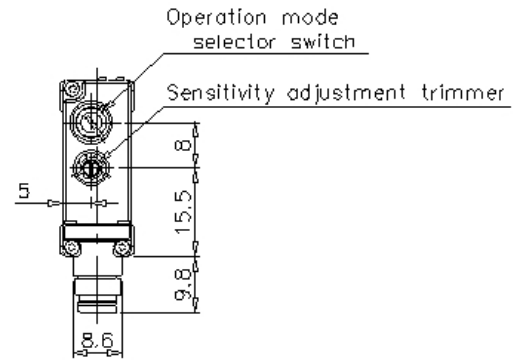
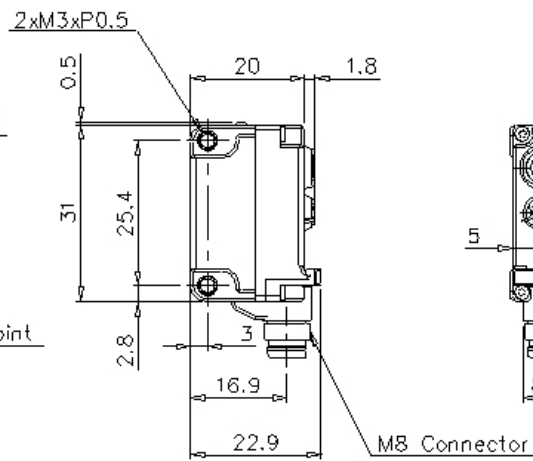
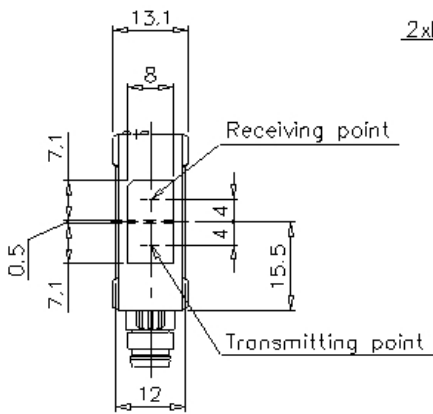
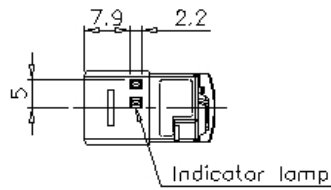


SPECIFICATIONS

| | | |
|--|---|---|
| Model | PZ-G62CP | |
| Type | Retro-reflective ^{*1} Transparent object detection | |
| Shape | Rectangular | |
| Cable length | M8 connector ^{*2} | |
| Output | PNP | |
| Detecting distance | 0.1 to 1 m 0.3' to 3.3' (When R-2L reflector is used) | |
| Spot diameter | — | |
| Light source | Infrared LED | |
| Sensitivity adjustment | 1-turn trimmer (230°) | |
| Response time | 500 μs | |
| Operation mode | LIGHT-ON/DARK-ON (switch-selectable) | |
| Indicators (LED) | Output: Orange LED, Stable operation: Green LED | |
| Control output | Open collector output, 30 V max., 100 mA max., Residual voltage: 1 V max. | |
| Protection circuit | Reversed polarity, overcurrent protection, surge absorber | |
| Interference suppression | Up to 2 units (with the automatic different frequency function) | |
| Tightening torque | Rectangular models (Mounting hole part): 0.5 N·m max. | |
| Rating | Power voltage | 10 to 30 VDC including Ripple ±10% (P-P), Class 2 |
| | Current consumption. | 34 mA max. |
| Environmental resistance | Enclosure rating | IEC: IP67/NEMA: 4A, 6, 12/DIN: IP69K |
| | Operating ambient luminance | Incandescent lamp: 5,000 lux max., Sunlight: 20,000 lux max. |
| | Operating temperature range | -20 to +55°C -4 to 131°F , No freezing |
| | Operating ambient humidity | 35 to 85% RH (No condensation) |
| | Vibration | 10 to 55 Hz, 1.5 mm 0.06" double amplitude in the X, Y, and Z directions, 2 hours respectively |
| | Shock resistance | 1,000 m/s ² 6 times in the X and Y directions |
| Material | Housing, M18 nut (threaded models only) | Glass-fiber reinforced PBT |
| | Lens cover | Polyarylate (PAR) |
| | Trimmer | Glass-fiber reinforced polyamide (PA) |
| | Case connection | Screw: Nickel-plated iron and zinc, packing: nitrile butadiene rubber (NBR) |
| | Cable (cable models only) | Polyvinyl chloride (PVC) |
| | Connector (connector type with cable only) | — |
| Accessories | Instruction manual | |
| Weight | Rectangular connector models: Approx. 10 g | |
| ^{*1} Cable sold separately for connector models/pigtail quick disconnect models. Reflector sold separately for retro-reflective models. ^{*2} Cable sold separately for connector models | | |

Dimensions

PZ-G61CN/G61CP/G62CN/G62CP



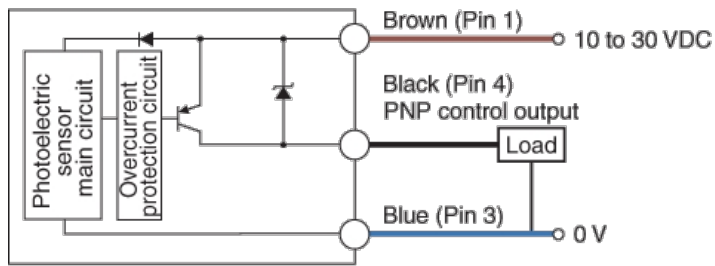
Pin arrangement



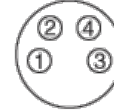
| | |
|---|-----|
| ① | +V |
| ② | - |
| ③ | 0V |
| ④ | OUT |

I/O Circuit Connection diagram

PNP output
(thru-beam receiver, reflective, retro-reflective)



M8 connector
PZ-GxxCP



M12 connector
PZ-GxxEP

