L.E.T. Automotive N.V.

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Headlamp aiming systems

Driver assistance sensor aiming

Vision applications

LET-Project number IDE180007

Project description Luminoscope system LVC1050-APS-TM

Manufacturer L.E.T. Automotive N.V.

Vaartlaan 20 B-9800 Deinze

Project number IDE180007
Responsible for project Andy Arens

Customer ShenZhen Promise

2B, Building 105, TaoYuan Village Nanshan District, Shenzhen City

China

Drawing number IDE180007

Installation Luminoscope system

Type LVC1050-APS-TM (Simplified)

Location - Quantity -

1

Supply from cabinet

Main power supply 1~220VAC+PE
Frequence / Net 50Hz /10A
Control voltage 24Vdc

Control voltage 24Vo SPS/PLC System -

Year of construction 2018

Created on 8-6-2018 2.7.3

Edit date 11-6-2018 LET Number of pages 93

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			Ed.	LET	Luminoscope system
			Appr		LVC1050-APS-TM (Simplified)
Modification	Date	Name	Original		( , , , ,



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B-9800 DEINZE
TEL:+32 (0)9 381 87 87
FAX:+32 (0)9 386 92 00
EMAIL:INFO@LET.BE 8-6-2018 Date IDE180007 Information INF: Drawingnumber + INF Ed. LET Luminoscope system LVC1050-APS-TM (Simplified) Revision history IDE180007 Page Total **2** 93 Appr Modification Date Original

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+A1/1	Compact power supply box +A1: 220Vac input, main switch, terminals, 24Vdc power unit & Harting plug for connection to Luminoscope	8-6-2018	LET
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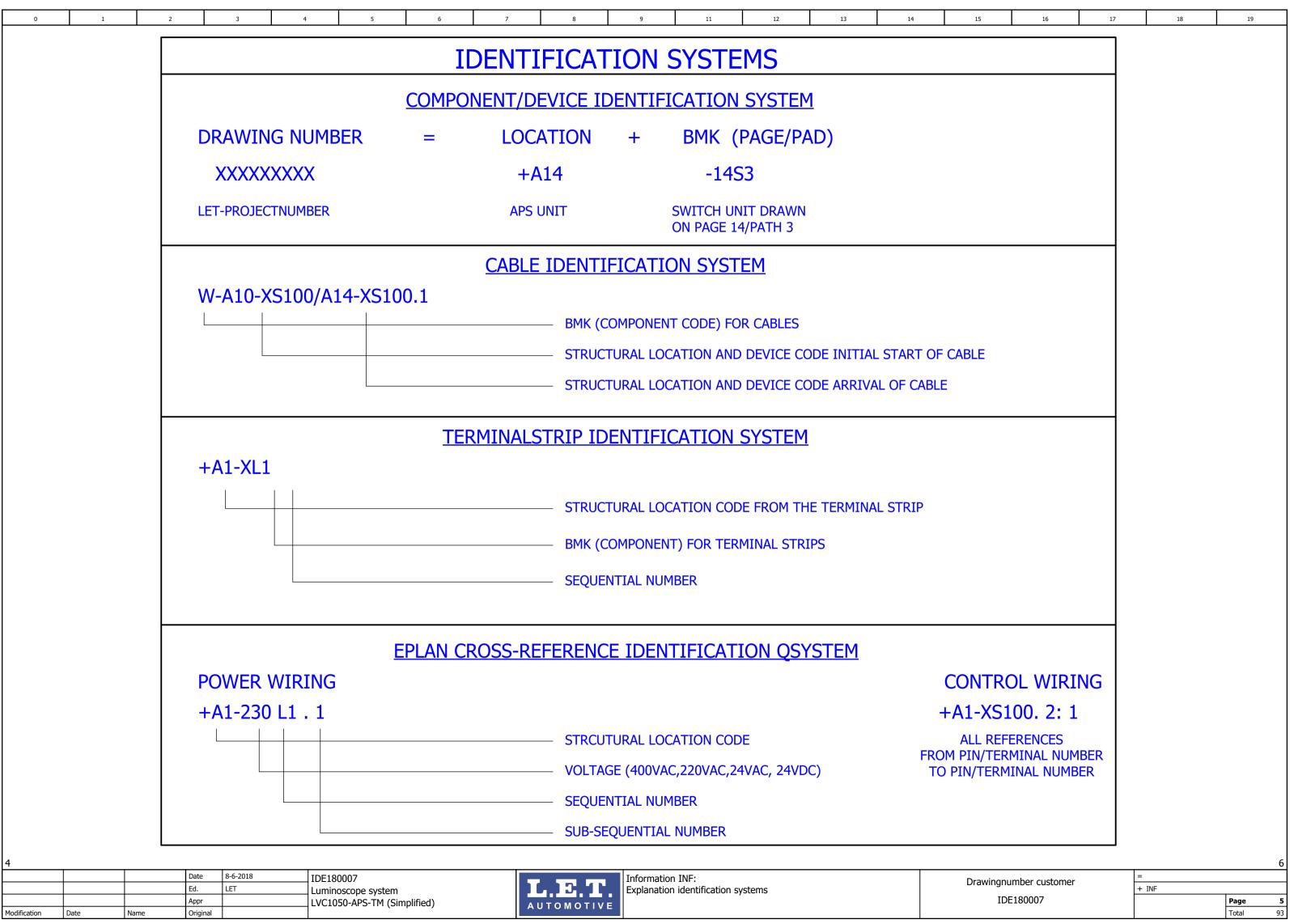
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VAARTLAAN 20
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EMAIL:INFO@LET.BE 8-6-2018 Date IDE180007 Information INF: Drawingnumber + INF Ed. LET Table of contents Luminoscope system LVC1050-APS-TM (Simplified) IDE180007 Page Total **3.b** 93 Appr Modification Date Original

Structure identifier overview (Location overview) Full designation Structure description +INF General information +GRAPH Graphical layout drawings +A1 Compact power supply box +A12 Optical unit Luminoscope system LVC1050-APS-TM +A14 APS controller unit Luminoscope system LVC1050-APS-TM +CLIENT Provisions by the customer +TERM Terminal strip overview & connection diagrams +PLUG Plug/Connector strip overview & connection diagrams +CABLE Cable summary & connection diagrams +BOM List bill of material 8-6-2018 IDE180007 Information INF: Drawingnumber AUTOMOTIVE

WARK LAMY 20
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TEL:+32 (0)9 381 87 87
FAX:+32 (0)9 386 92 00
EMAIL:INFO@LET.BE + INF LET Luminoscope system Structural function & location overview IDE180007 Appr Page LVC1050-APS-TM (Simplified) Total Date



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## **IDENTIFICATION SYSTEMS**

### **MARKING DEVICES**

COMPONENT: 1x SELF-ADHESIVE LABEL LOCATED ABOVE THE COMPONENT PHOENXI CONTACT TYPE EMLP (20X8)

TERMINAL STRIPS: GROUP MARKER CARRIER FOR SNAPPING INTO END STOPS PHOENIX CONTACT TYPE KLM

+LABELING INSERT MARKER PHOENIX CONTACT TYPE US-EMP (25x6MM)

TERMINALS: MARKER FOR TERMINAL BLOCKS PHOENIX CONTACT TYPE UCT-TM 5

CABLES: MARKED AT BOTH ENDS WITH PLASTIC CABLE MARKER PHOENIX CONTACT TYPE KMK2

+LABELING INSERT MARKER PHOENIX CONTACT TYPE US-EMP (29x8MM)

WIRING/CABELCORE: FOR CABLEHOLDER PHOENIX CONTACT TYPE PATG WITH TARGET MARKING (PLACE OF INSTALLATION + BMK)

LABELING INSERT MARKER PHOENIX CONTACT TYPE US-WMT (23x4MM)

CONDUCTOR MARKER CARRIER PHOENIX CONTACT TYPE PATG 1/23: WIRE SECTION 1,5-2,5MM CONDUCTOR MARKER CARRIER PHOENIX CONTACT TYPE PATG 2/23: WIRE SECTION 2-4MM

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WIRE COLORS IN ENCLOSURES						
DESCRIPTION CIRCUIT	POTENTIAL	WIRE COLOR	WIRE SECTION			
PRIMARY CIRCUITS 400/220VAC	L1/L2/L3	BLACK	MIN. 1.5mm <sup>2</sup>			
NEUTRAL WIRE	N	LIGHT BLUE	MIN. 1mm <sup>2</sup>			
EQUIPMENT GROUNDING CONDUCTOR	PE	GREEN/YELLOW	MIN. 1mm²			
CONTROL CIRCUITS	230 VAC	RED	MIN. 1mm²			
CONTROL CIRCUITS	24VAC	RED	MIN. 1mm²			
CONTROL CIRCUITS	0 VAC	RED	MIN. 1mm²			
CIRCUITS UPSTREAM DISCONNECT SWITCH	L1/L2/L3	ORANGE	MIN. 1.5mm²			
CONTROL CIRCUITS	24VDC	DARK BLUE	MIN. 1mm²			
CONTROL CIRCUITS	0 VDC	DARK BLUE WITH WITE STRIPE	MIN. 1mm²			
INTERLOCK CIRCUITS	-	ORANGE	MIN. 1mm²			

COLORS ABBREVIATIONS						
COLOR ABBREVATION	COLOR	COLOR ABBREVATION	COLOR			
BN	BROWN	VI	VIOLETT			
RD	RED	GY	GRAY			
PK	PINK	WH	WHITE			
YE	YELLOW	BK	BLACK			
GN	GREEN	GNYE	GREEN/YELLOW			
BU	BLUE	TQ/LIGHT BU	LIGHT BLUE			
OG	ORANGE	DARK BU	DARK BLUE			

8-6-2018 Date Information INF: Explanation wire colors & color abbreviations IDE180007 L.D.T. Drawingnumber customer Ed. LET + INF Luminoscope system LVC1050-APS-TM (Simplified) IDE180007 Page Total Appr Modification Date Original

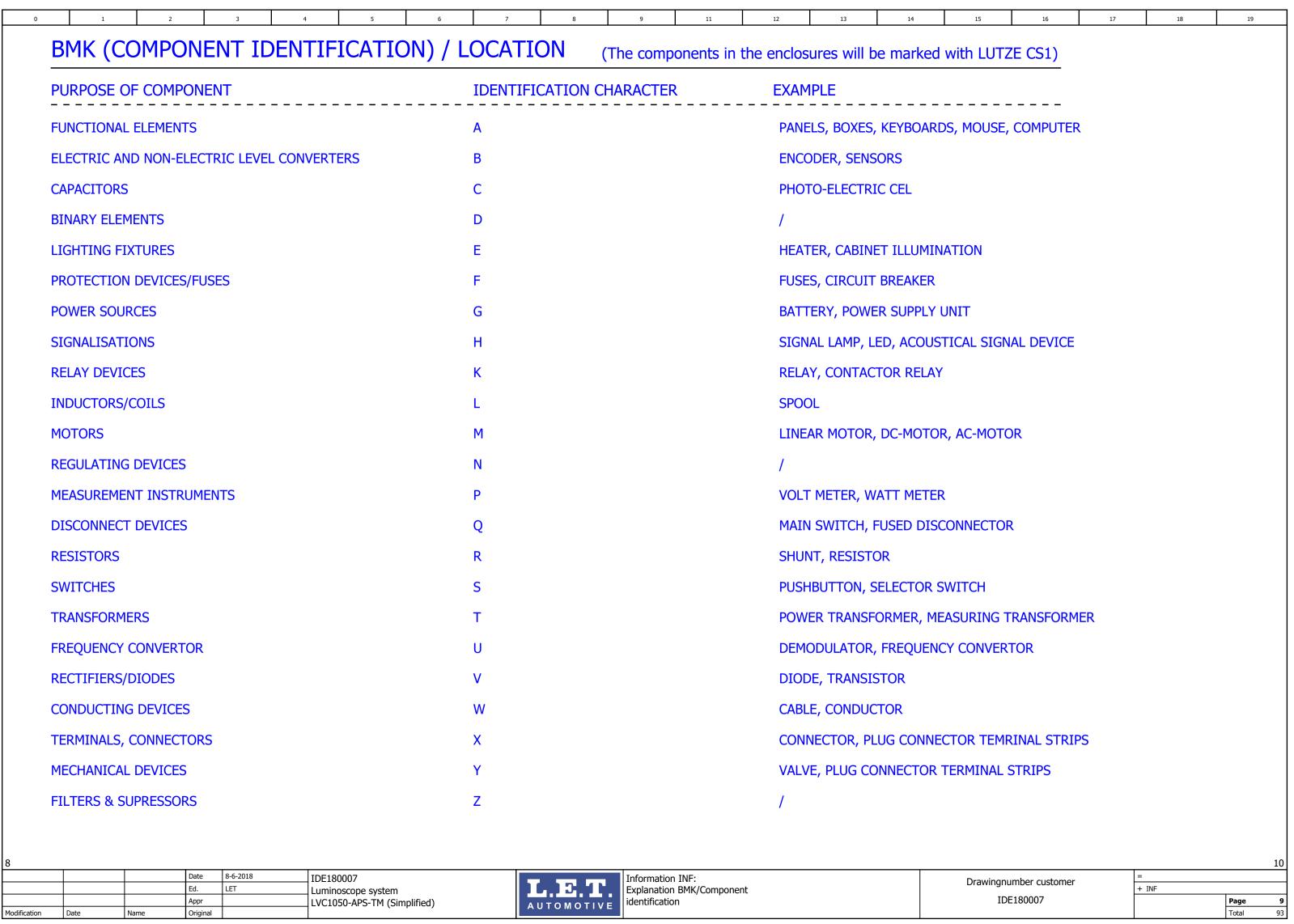
TERMINAL SIZES						
TERMINAL SIZES						
DESCRIPTION CIRCUIT	POTENTIAL	WIRE COLOR				
PRIMARY POWER CIRCUITS 400VAC	L1/L2/L3/N	0.08-2.5mm <sup>2</sup> -TERMINALS Phoenix Contact ST-Series GREY				
GROUNDING PRIMARY POWER CIRCUITS 400/220VAC	PE	0.08-2.5mm <sup>2</sup> -TERMINALS Phoenix Contact ST-Series GREEN-YELLOW				
POWER CIRCUITS UPSTREAM DISCONNECT SWITCH	L1/L2/L3/N	0.08-2.5mm <sup>2</sup> -TERMINALS Phoenix Contact ST-Series GREY				
CONTROL CIRCUITS	230 VAC	0.08-2.5mm <sup>2</sup> -TERMINALS Phoenix Contact ST-Series GREY				
CONTROL CIRCUITS	24 VAC	0.08-2.5mm <sup>2</sup> -TERMINALS Phoenix Contact ST-Series GREY				
CONTROL CIRCUITS	0 VAC	0.08-2.5mm <sup>2</sup> -TERMINALS Phoenix Contact ST-Series GREY				
CONTROL CIRCUITS	24 VDC	0.08-2.5mm <sup>2</sup> -TERMINALS Phoenix Contact ST-Series GREY				
CONTROL CIRCUITS	0 VDC	0.08-2.5mm <sup>2</sup> -TERMINALS Phoenix Contact ST-Series GREY				
GROUNDING PRIMARY CONTROL CIRCUITS	PE	0.08-2.5mm <sup>2</sup> -TERMINALS Phoenix Contact ST-Series GREEN-YELLOW				
INTERLOCK CIRCUITS	L1/L2/L3	0.08-2.5mm <sup>2</sup> -TERMINALS Phoenix Contact ST-Series ORANGE				

-					
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Information INF: Explanation terminal sizes

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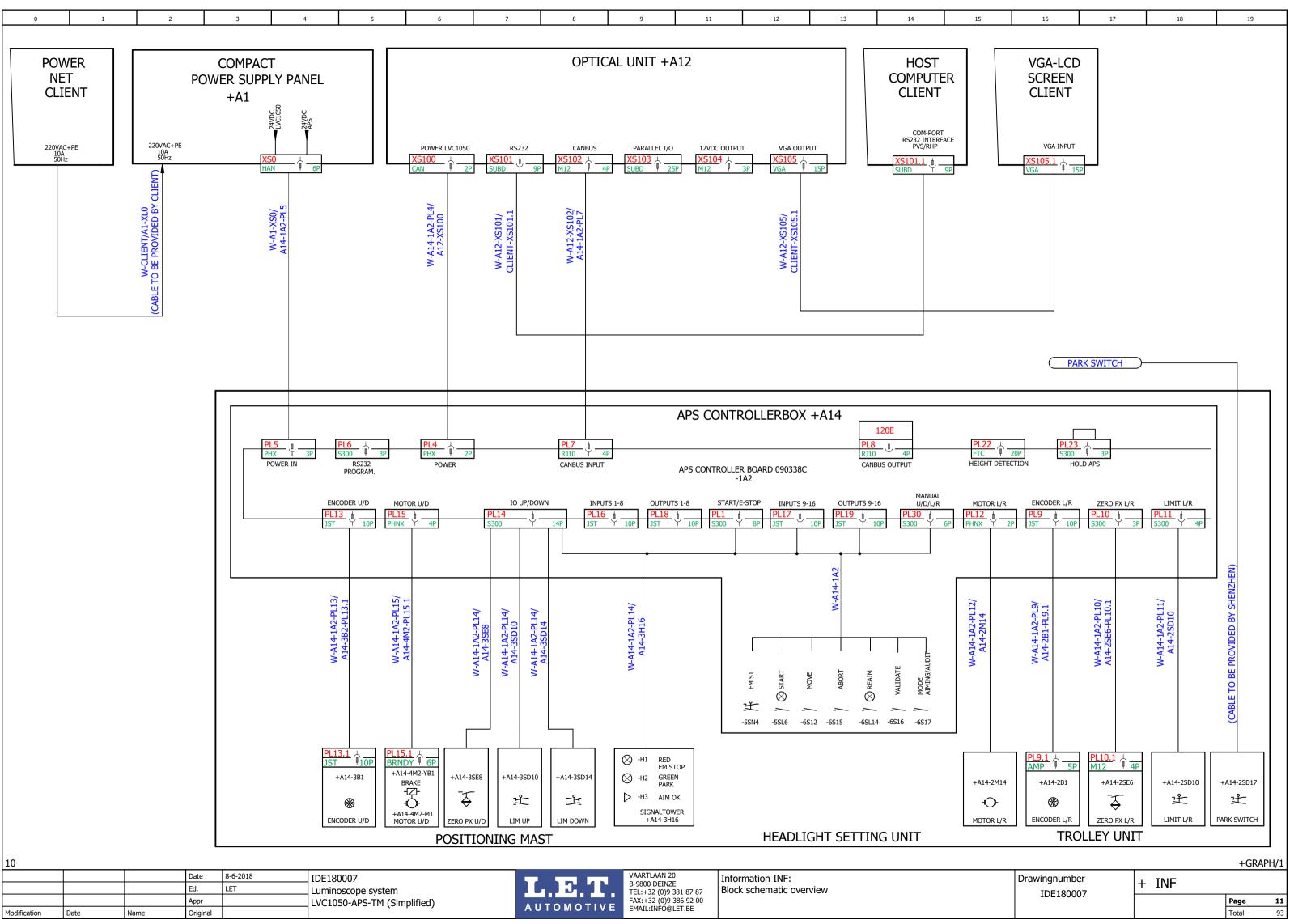
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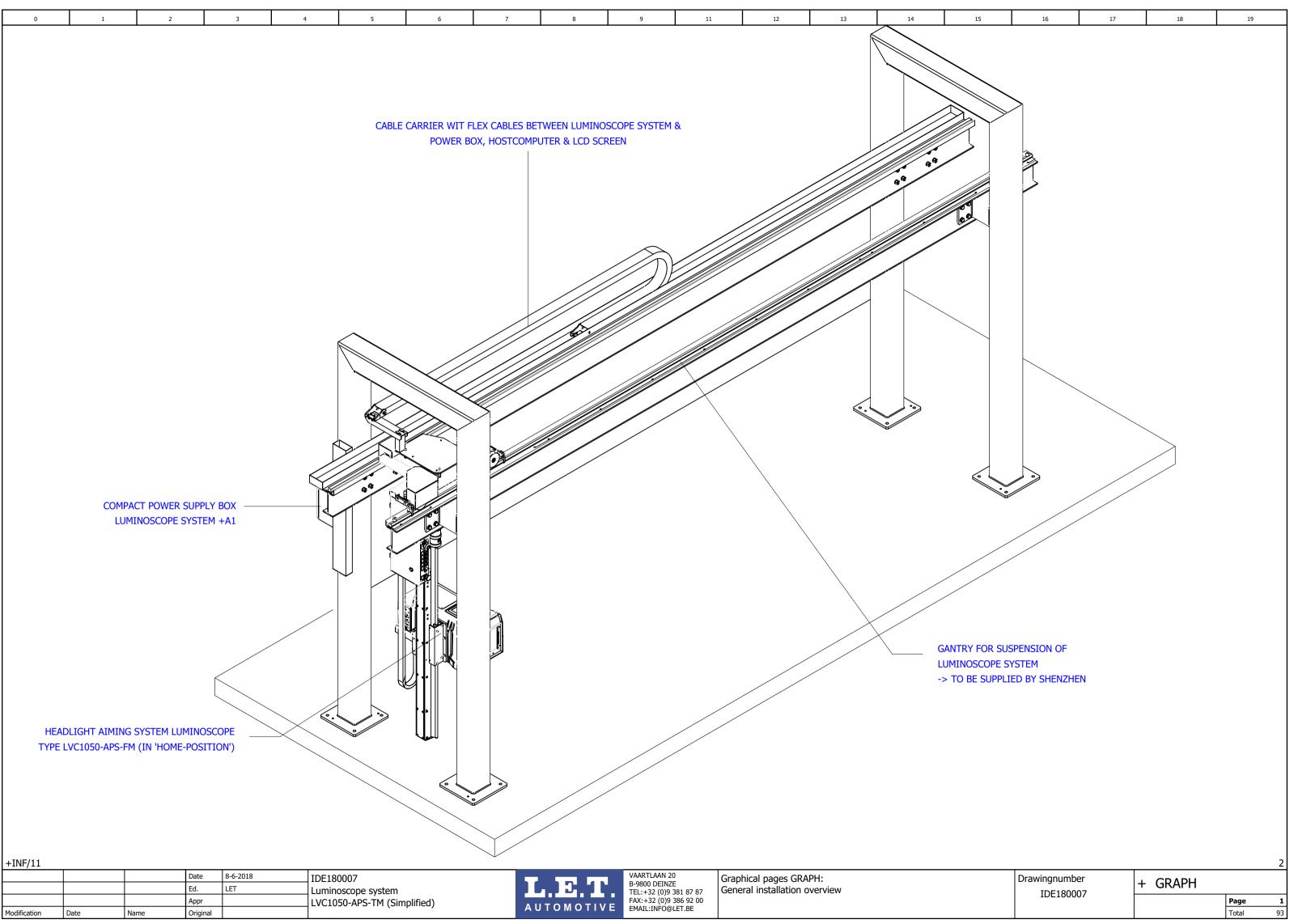
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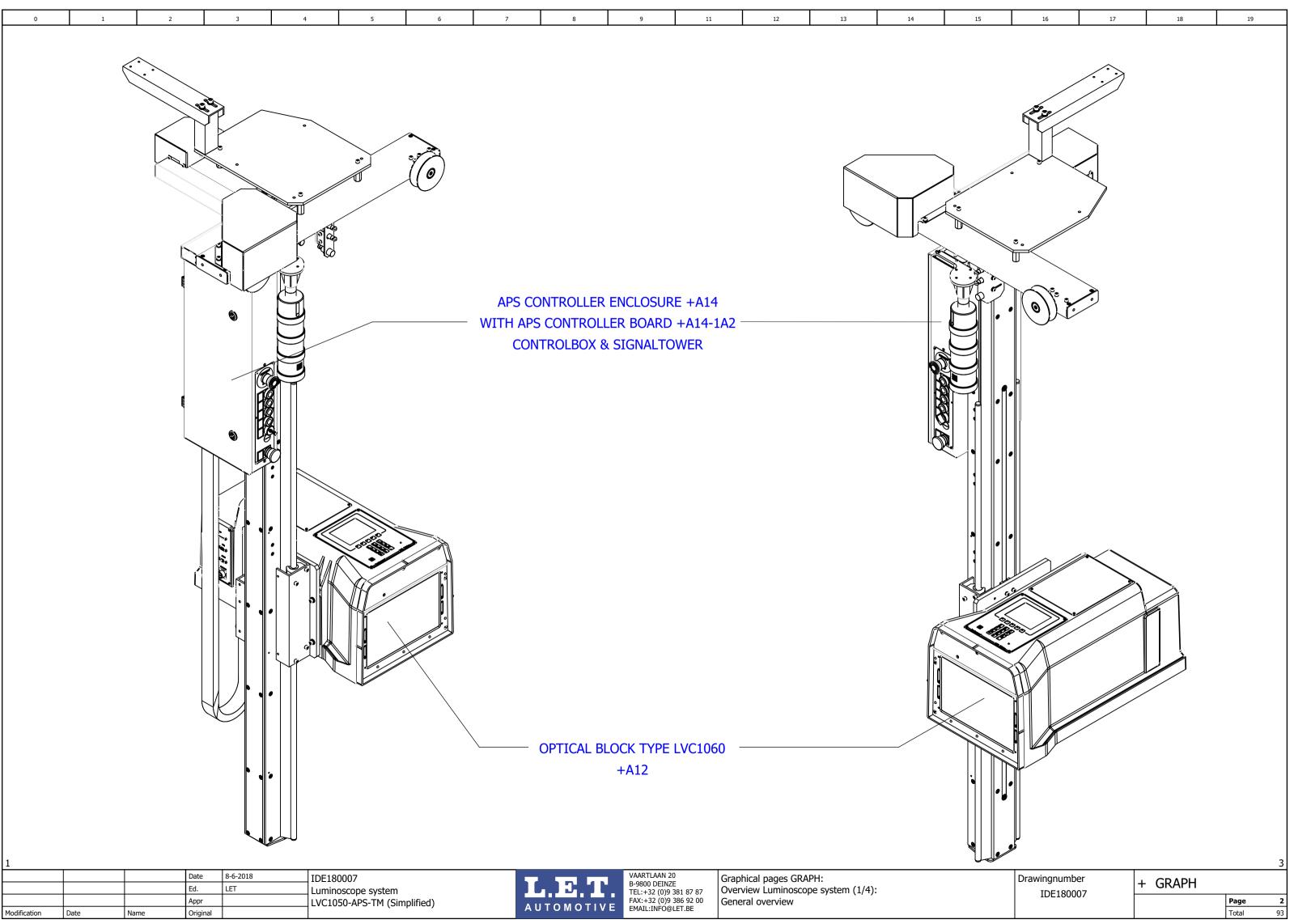
CHARACTER	ADD-ON	PURPOSE OF COMPONENT
S		SWITCH (GENERAL)
S	E	PROXIMITY SWITCH
S	D	MECHANICAL ACTIVATED SWITCH
S	L	ILLUMINATED SWITCH
S	N	EMERGENCY STOP SWITCH
S	Р	PROGRAMMABLE SWITCH
S	W	SELECTORSWITCH
Χ		CONNECTION DEVICE (GENERAL)
Χ	L	TERMINAL STRIP
X	S	CONNECTION PLUG

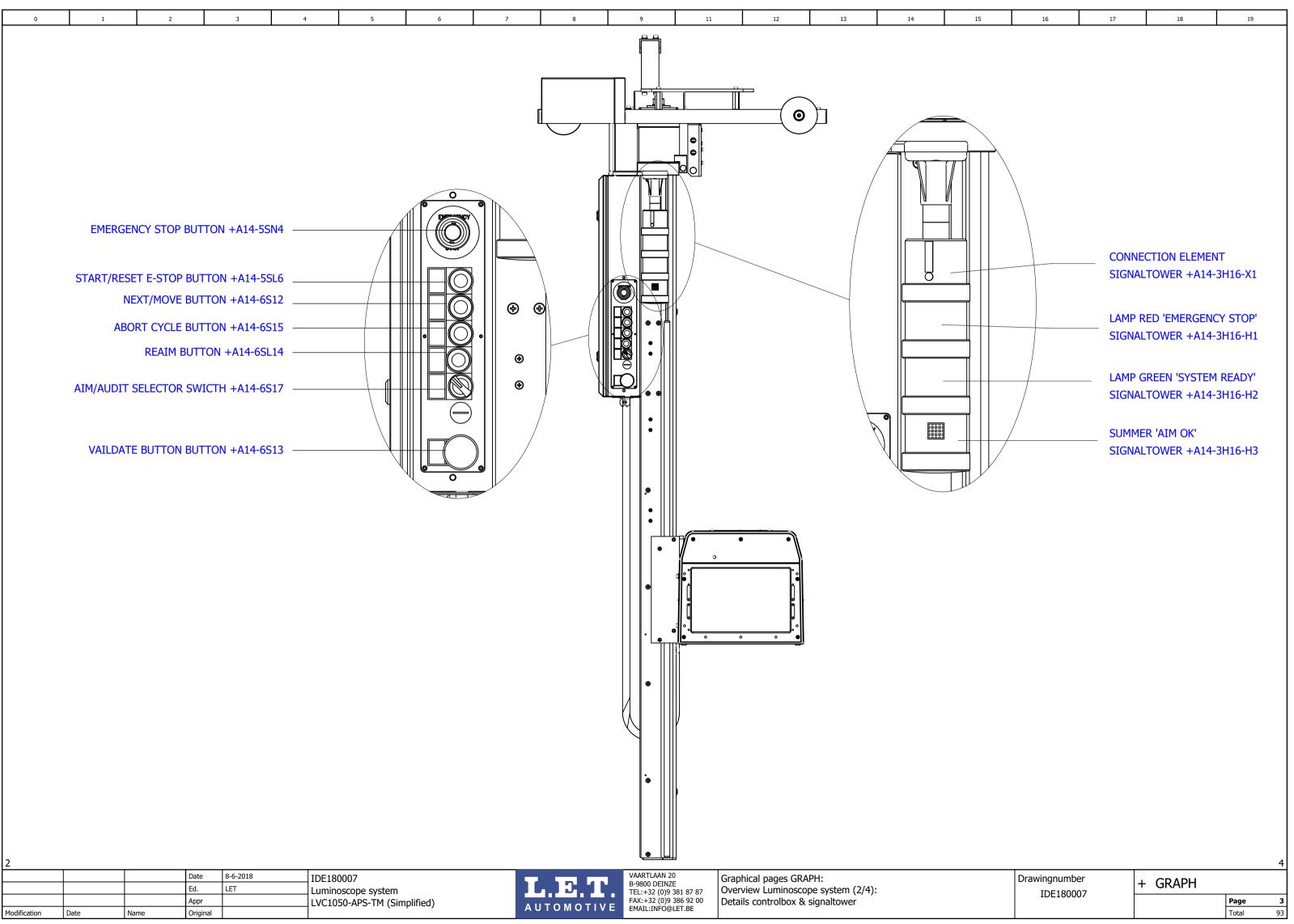
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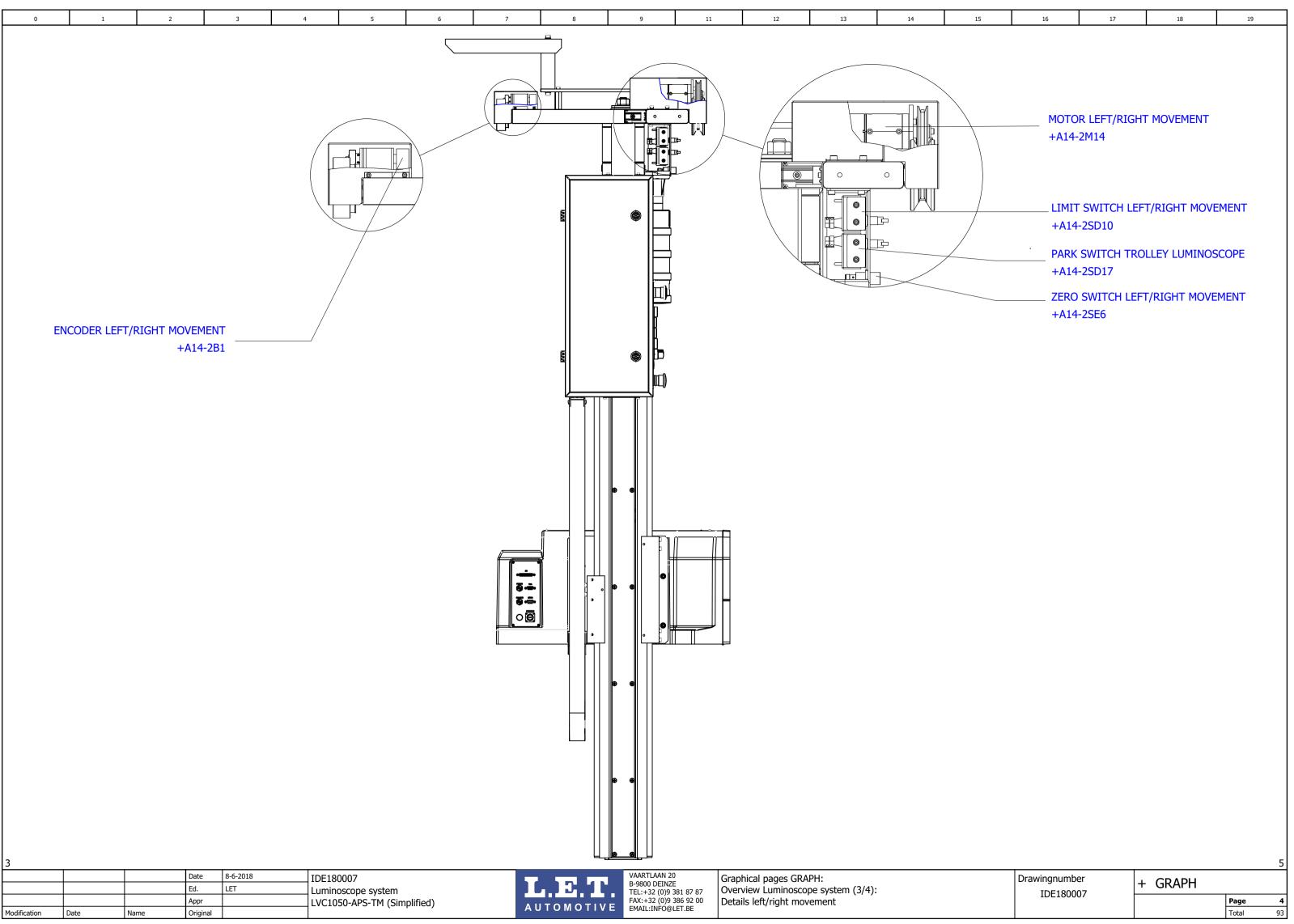


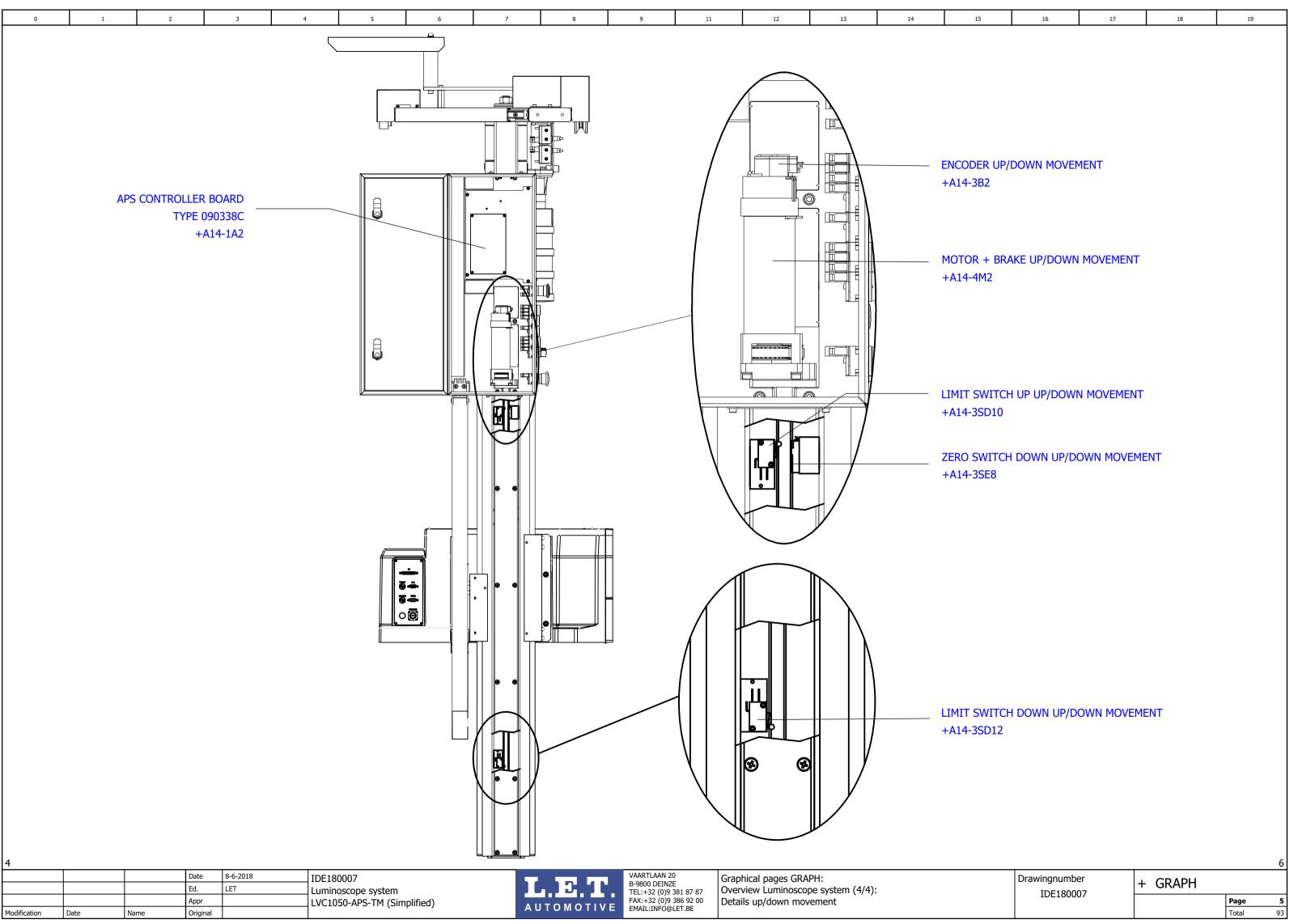


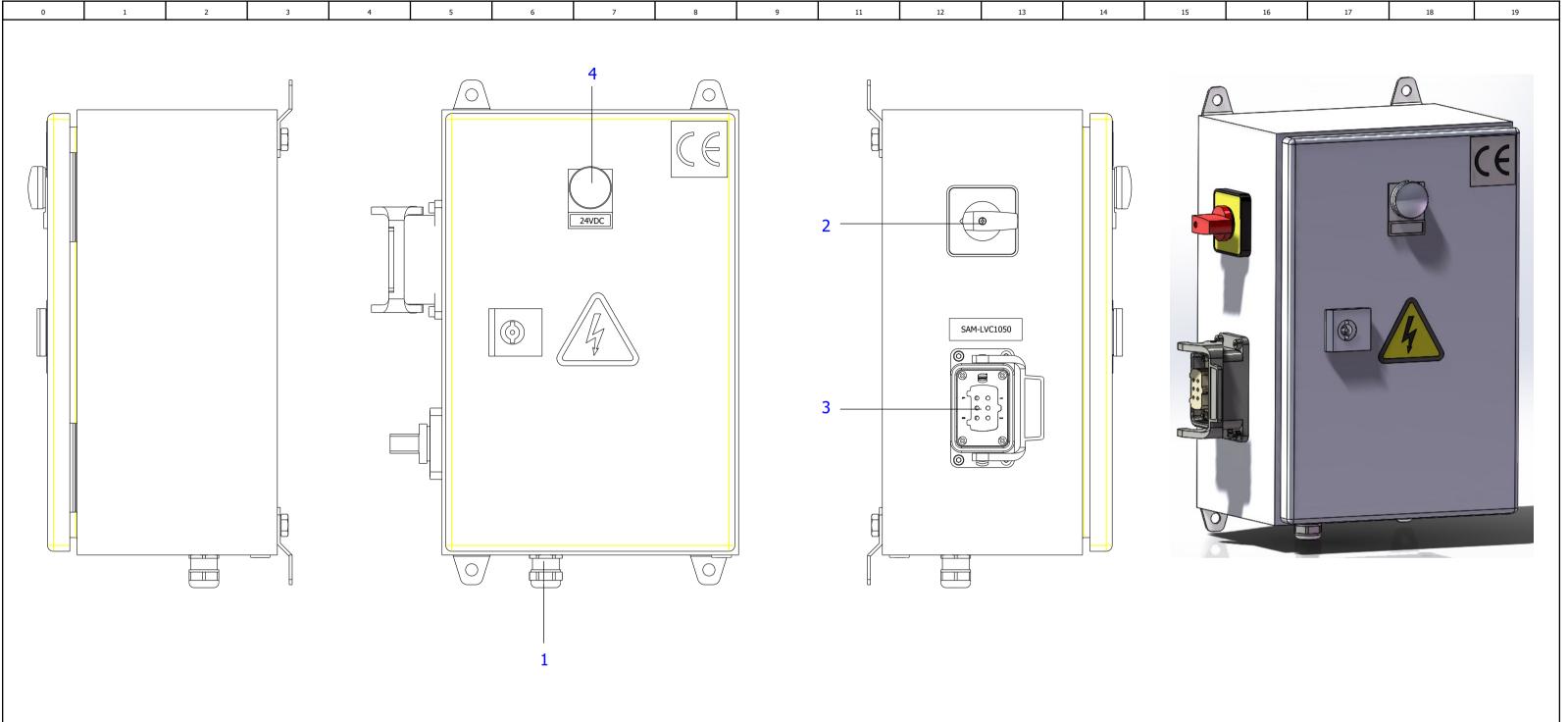












POS.	<u>NAME</u>	<u>FUNCTION</u>
1	1	CABLE GLAND FOR CABLE 220VAC INPUT FOM POWER NET CLIENT
2	+A1-1S3	MAIN ON/OFF SWITCH
3	+A1-XS0	PLUG 24VDC POWER SUPPLY -> LUMINOSCOPE HEADLAMP AIMING SYSTEM
4	+A1-1H15	PILOT LIGHT WITH INDICATION PRESENCE 24VDC POWER SUPPLY

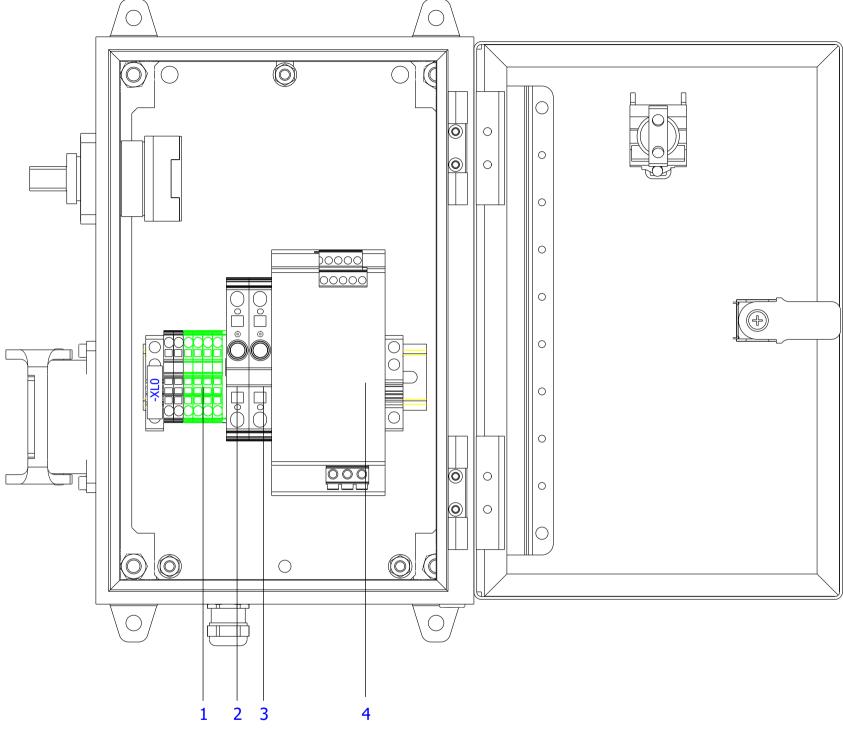
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Graphical pages GRAPH: Compact power supply panel +A1: Exterior layout & component description

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## **FRONT VIEW WITH OPEN DOOR**



POS.	NAME	FUNCTION
1	+A1-XL0	TERMINALS POWER DISTRIBUTION
2	+A1-1XL8	GLASS FUSE-TERMINAL 220VAC INPUT (L)
3	+A1-1XL9	GLASS FUSE-TERMINAL 220VAC INPUT (N)
4	+A1-1G8	POWER UNIT 220VAC/24VDC-10A

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Original

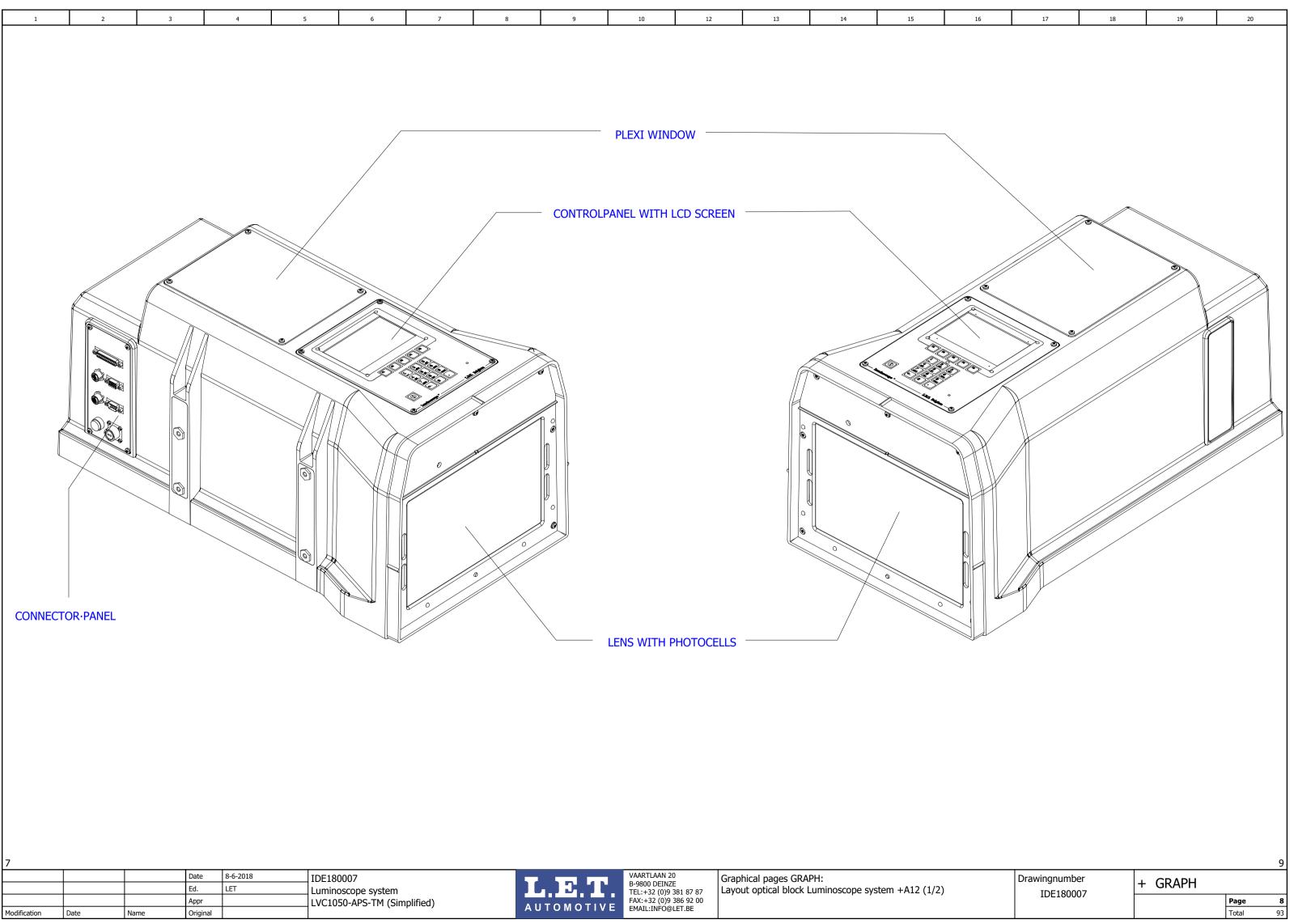
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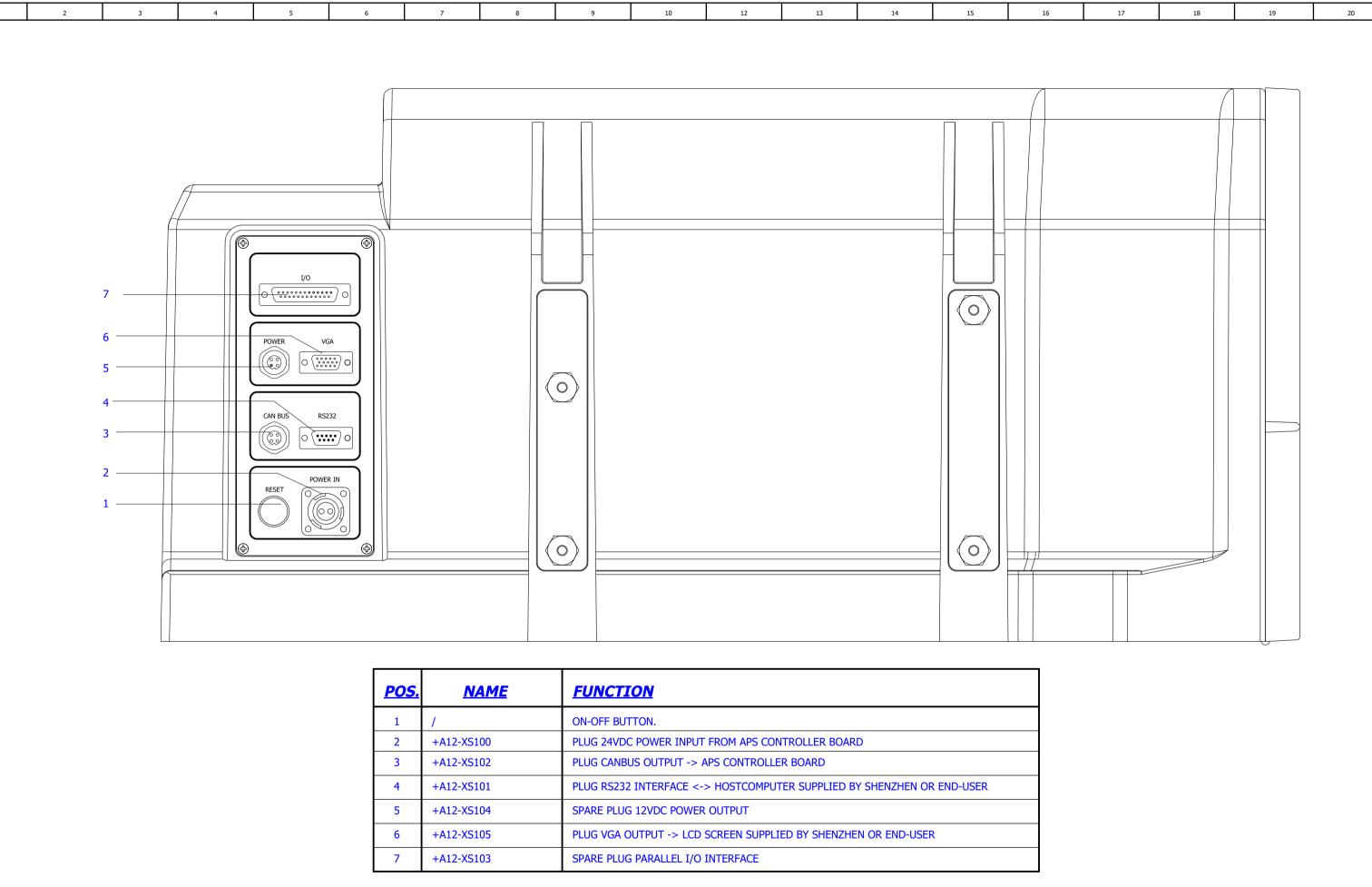
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Name

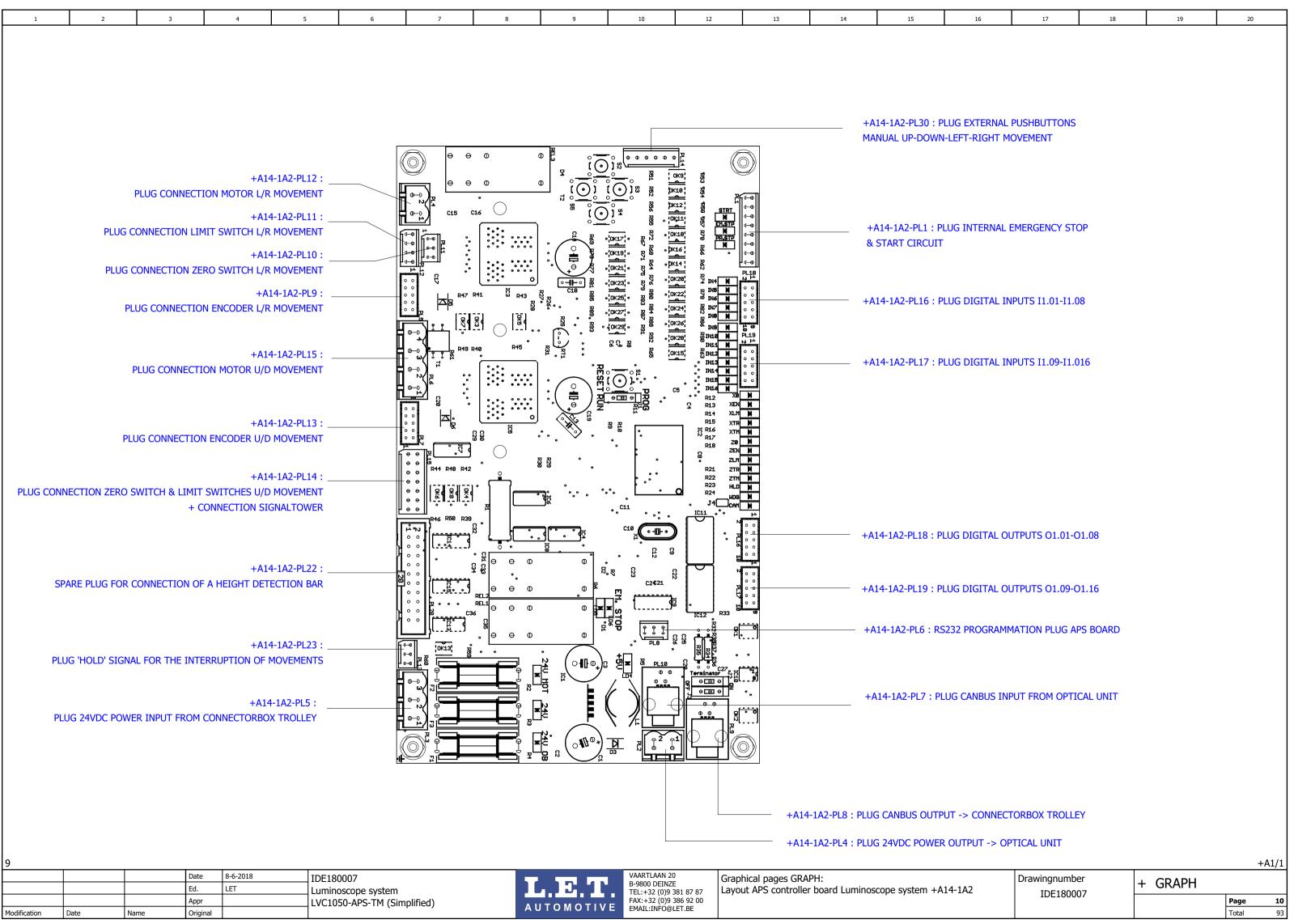


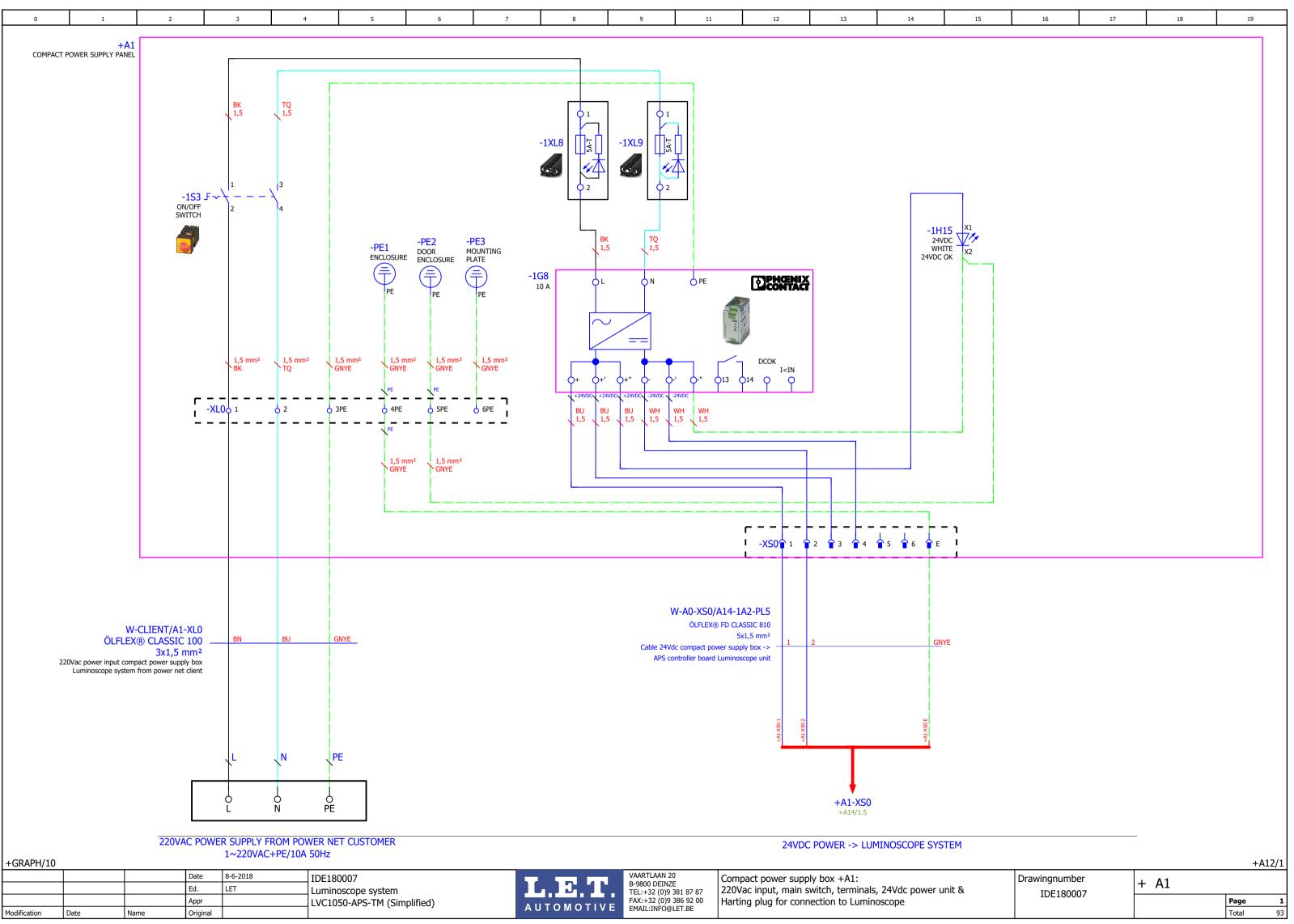
Graphical pages GRAPH: Compact power supply panel +A1: Interior layout & component description Drawingnumber IDE180007 + GRAPH Page Total

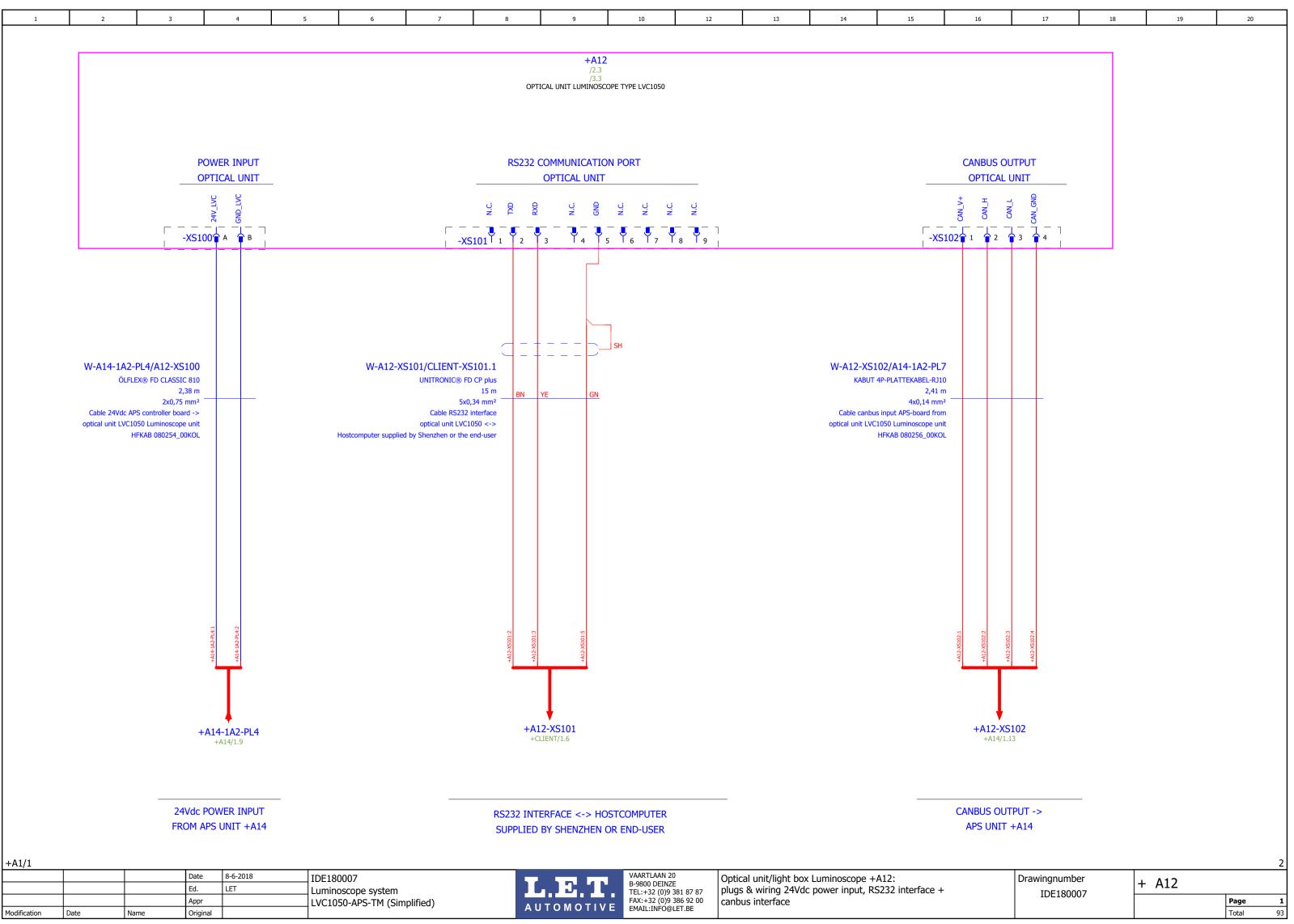


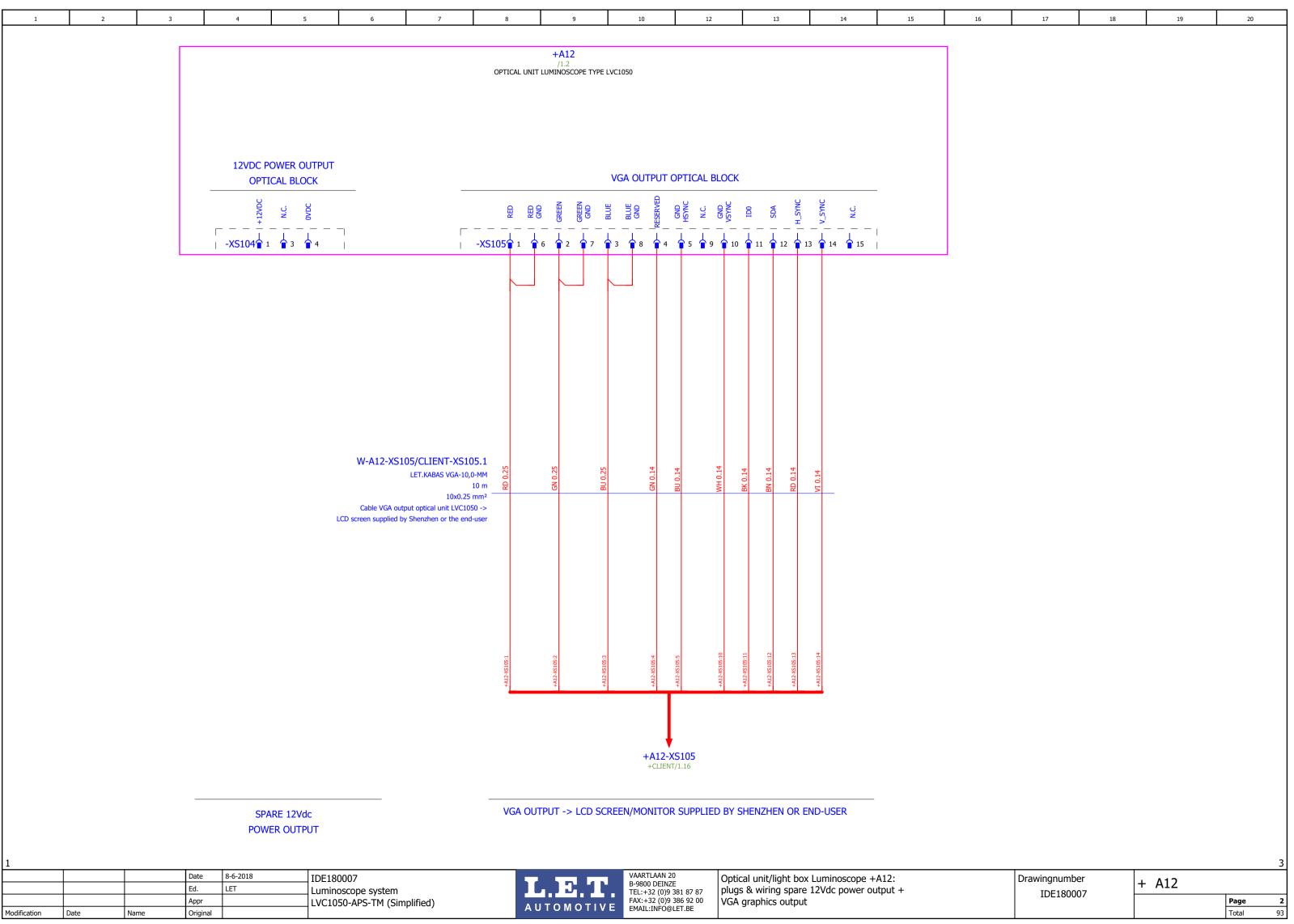


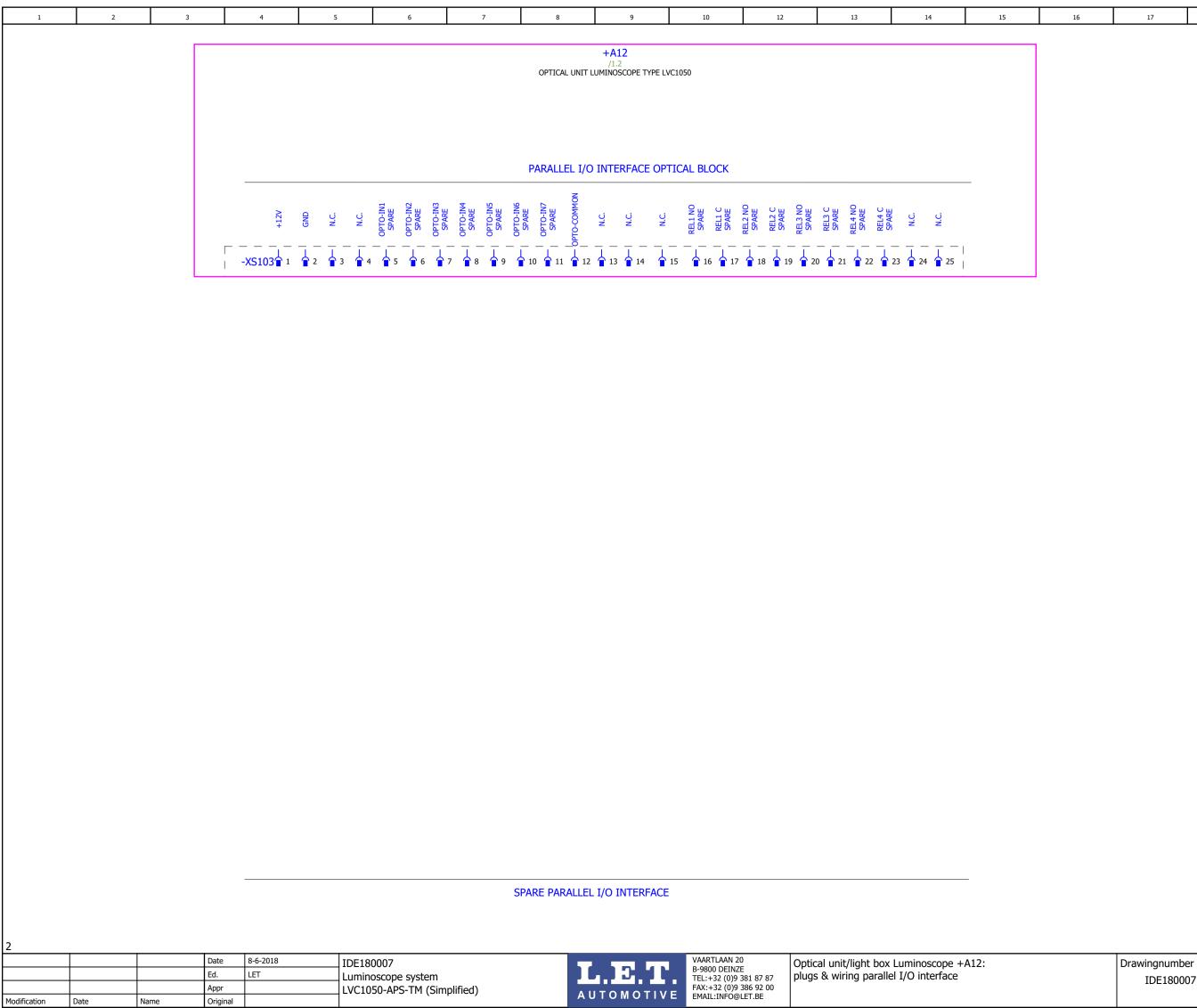
8-6-2018 VAARTLAAN 20 Date IDE180007 Graphical pages GRAPH: Drawingnumber + GRAPH LET A U T O M O T I V E EMAIL:INFO@LET.BE Layout optical block Luminoscope system +A12 (2/2) Luminoscope system IDE180007 LVC1050-APS-TM (Simplified) Page Total Modification





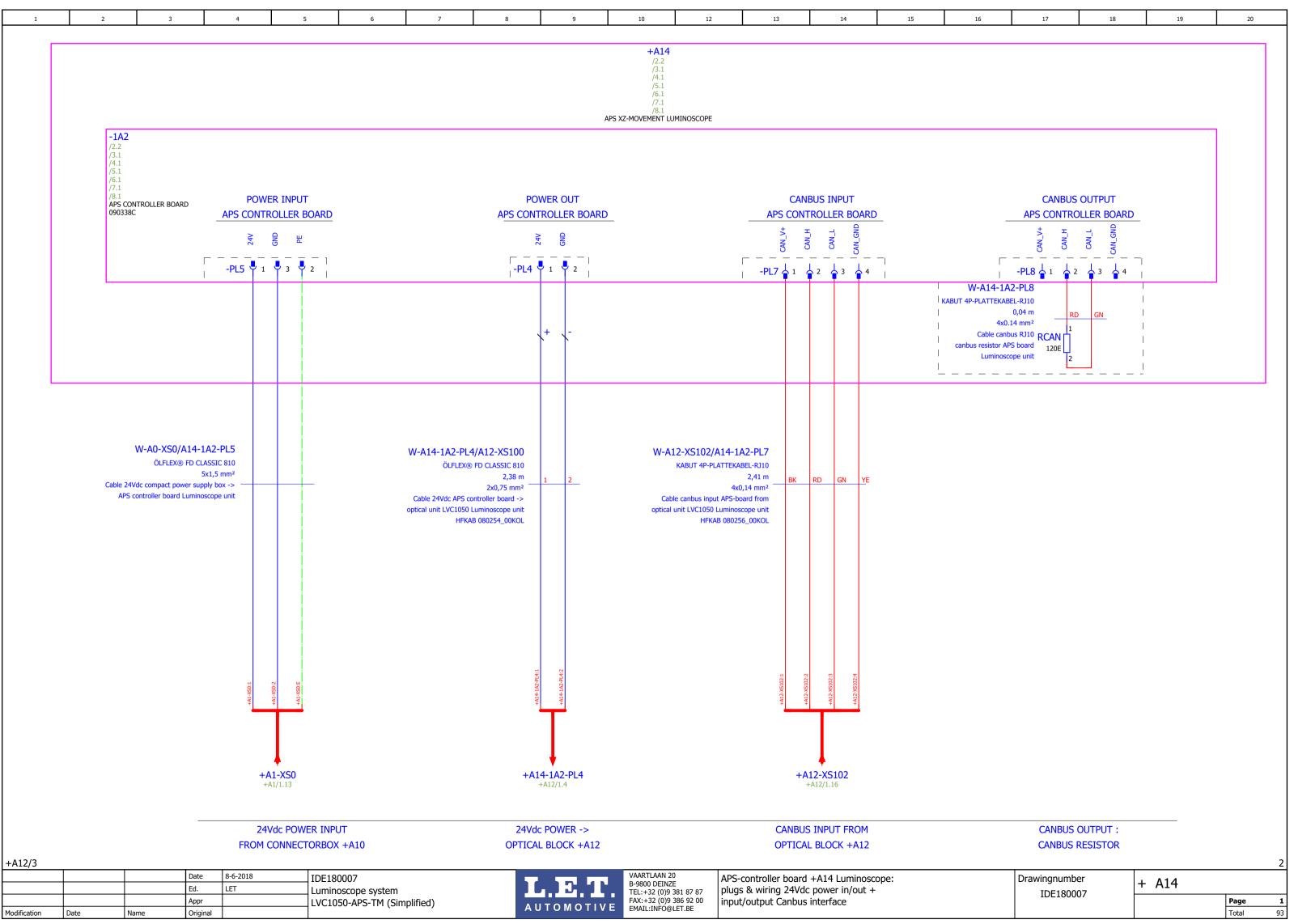


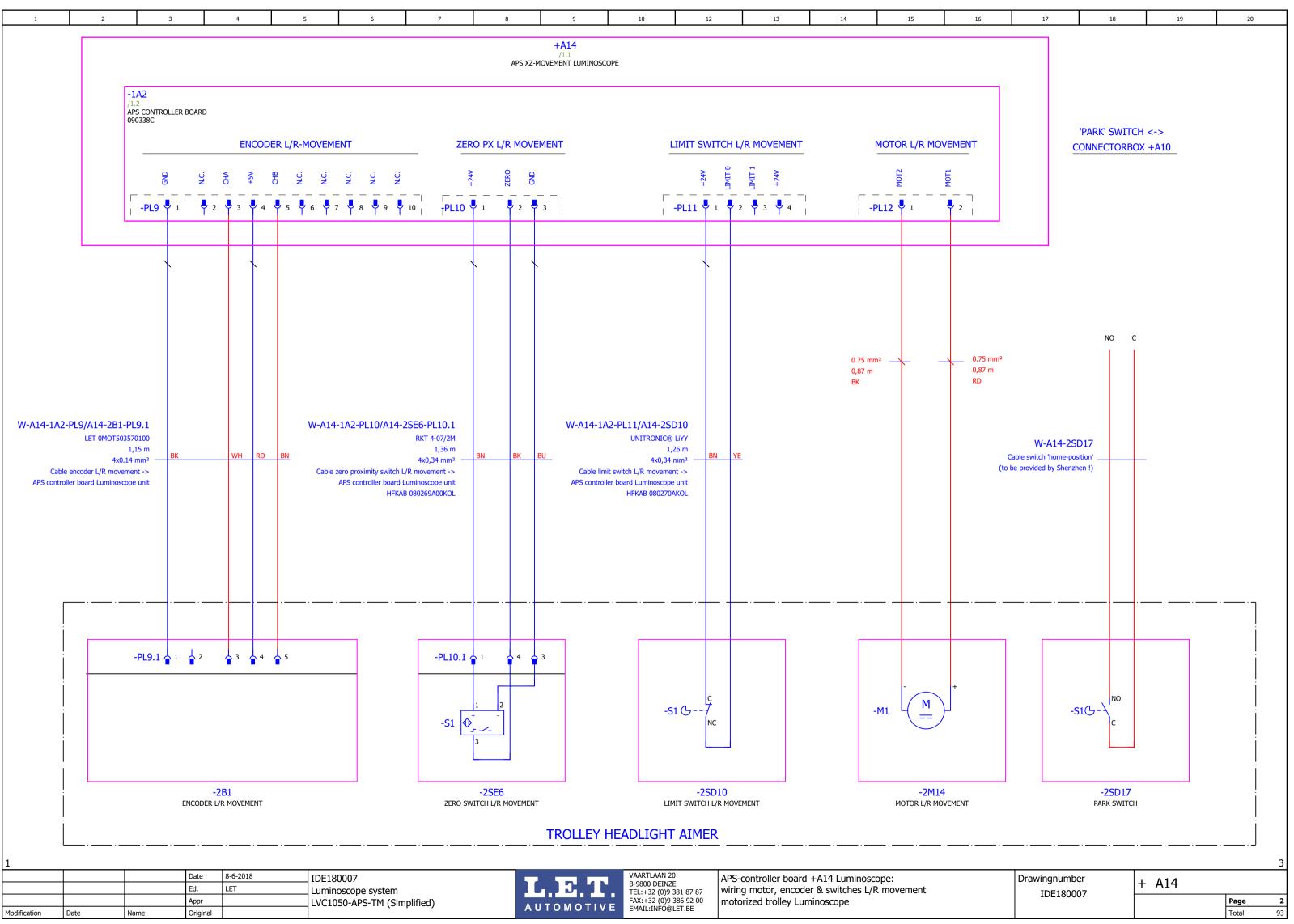


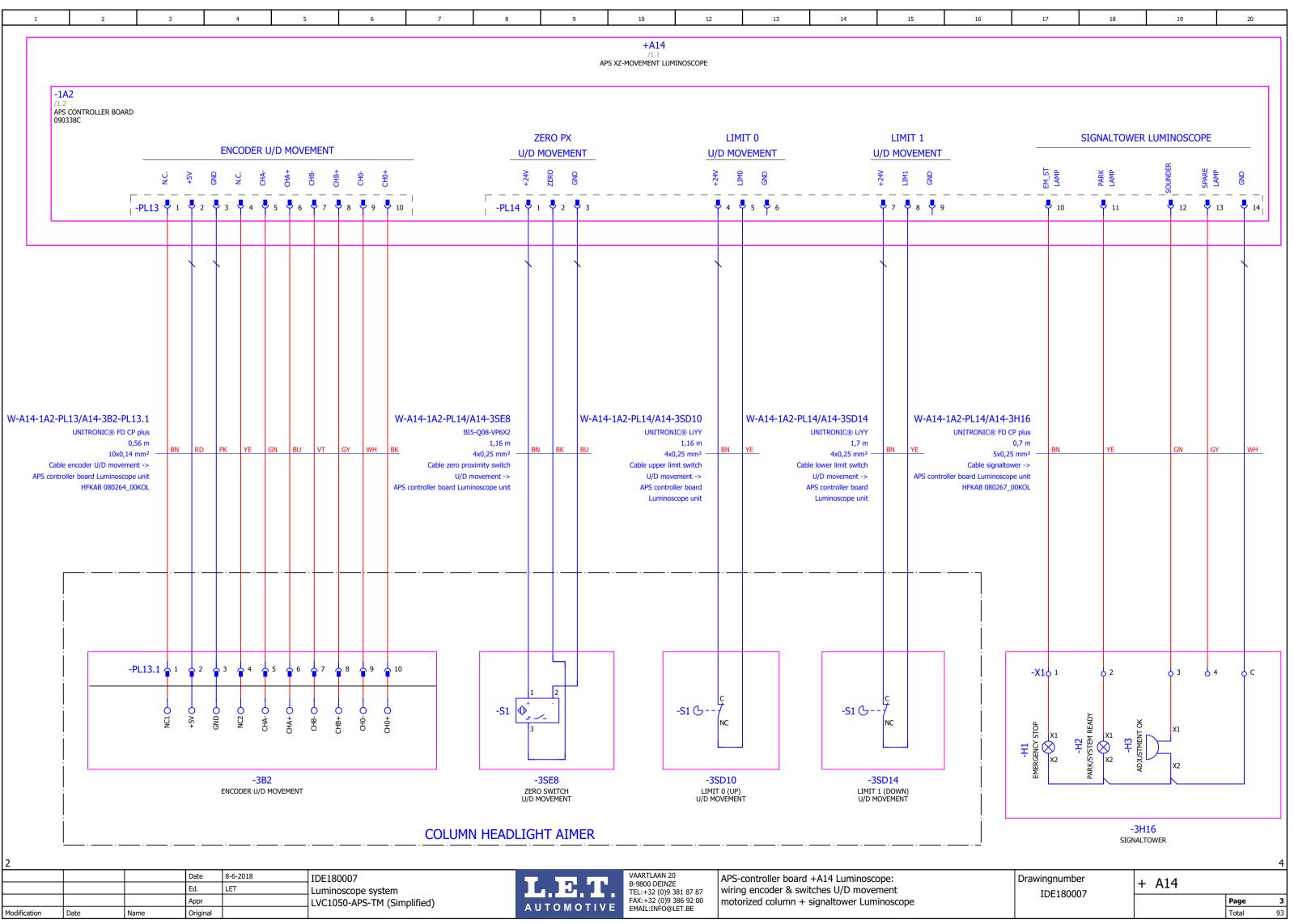


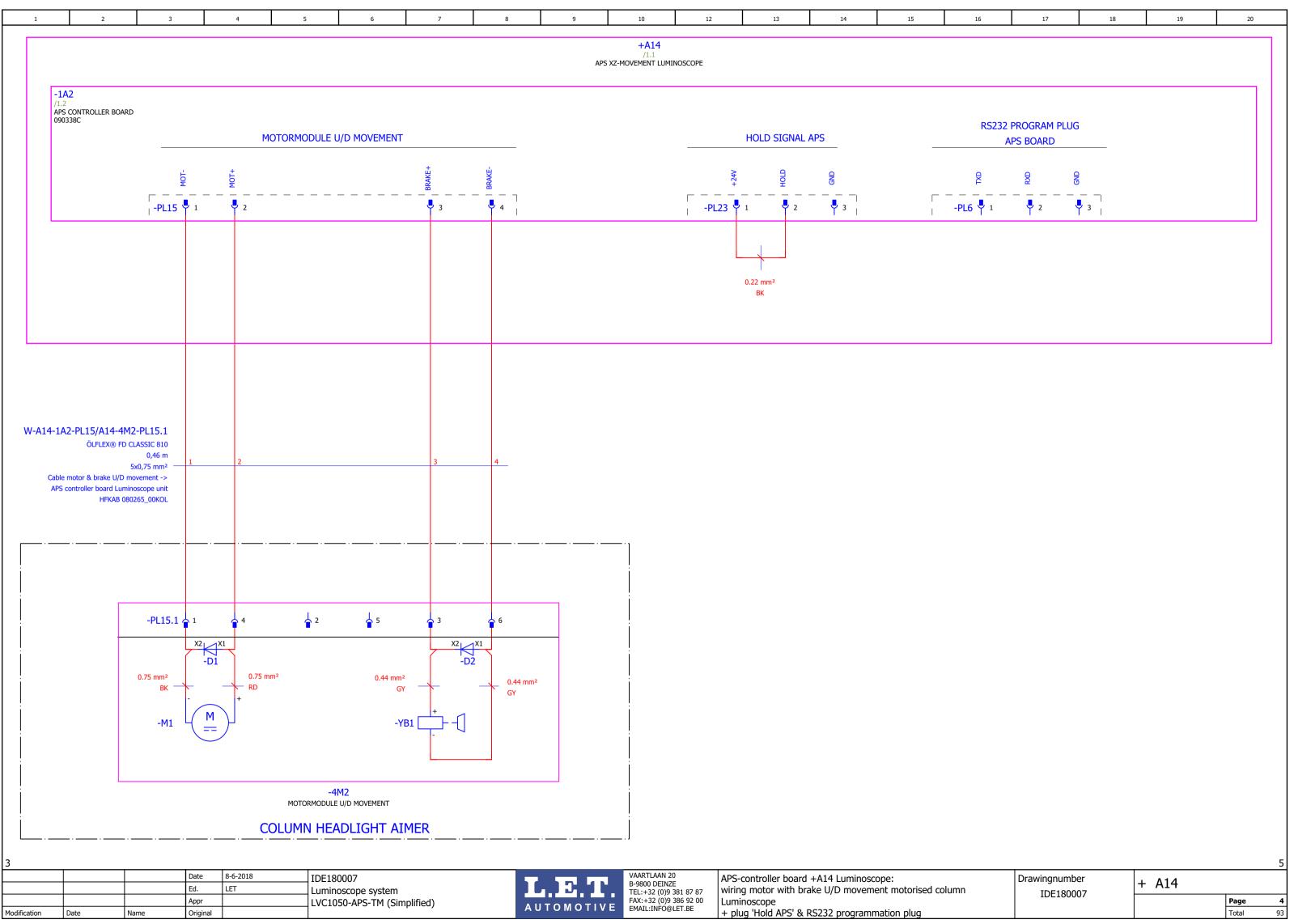
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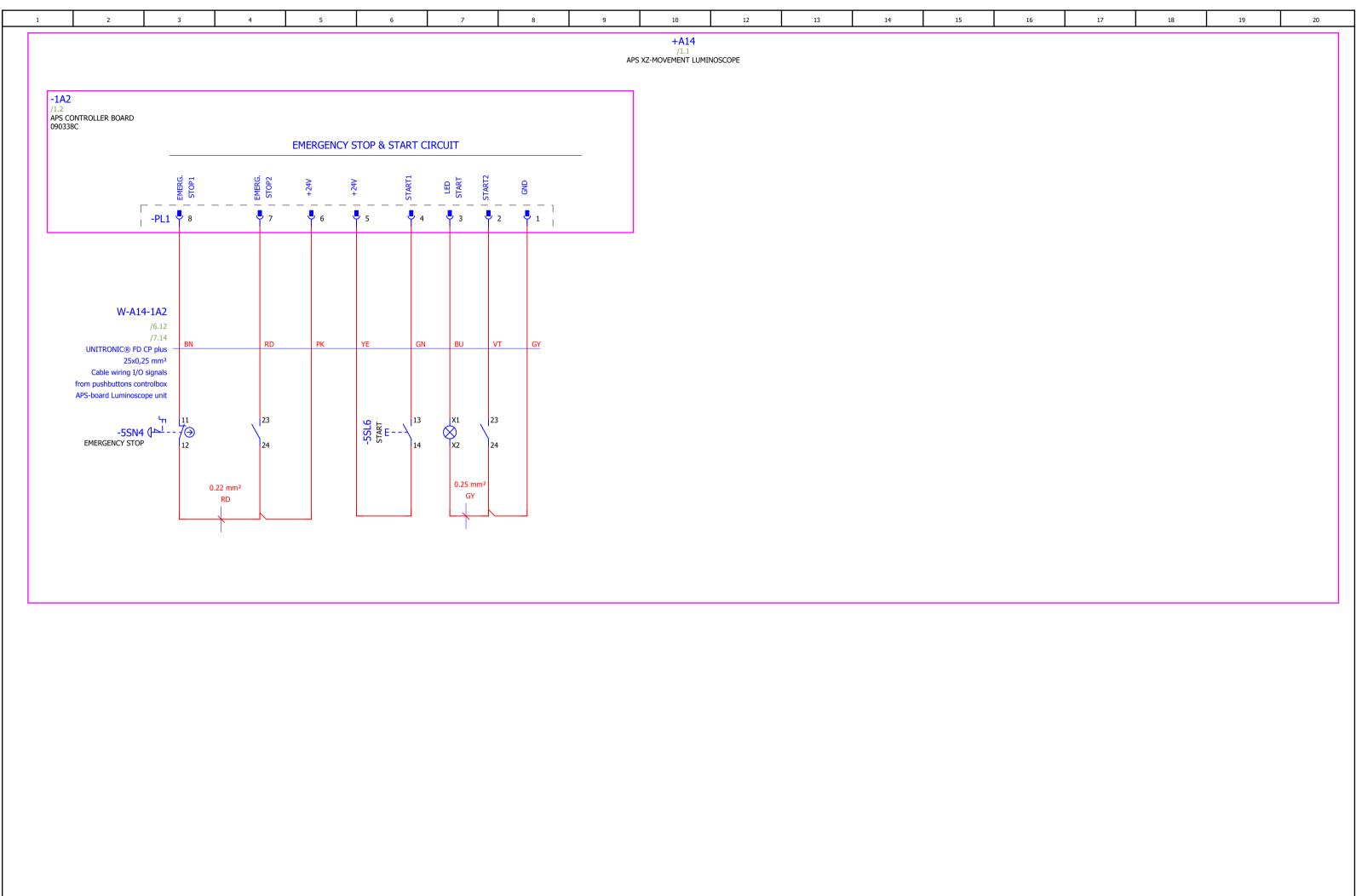
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AUTOMOTIVE

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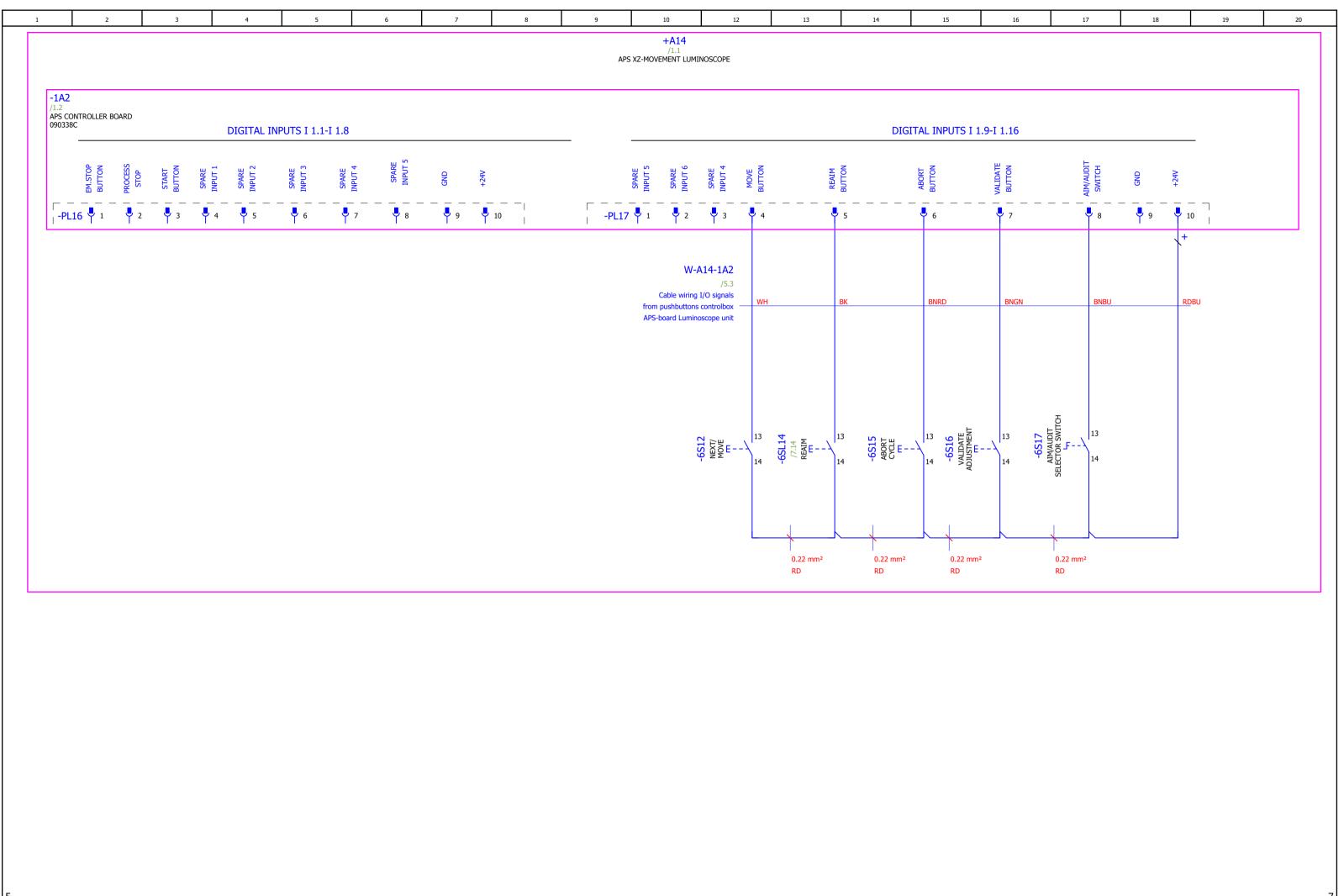
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EMAIL:INFO@LET.BE

VAARTLAAN 20

APS-controller board +A14 Luminoscope: wiring emergency stop button & start button controlbox Luminoscope Drawingnumber IDE180007

+ A14

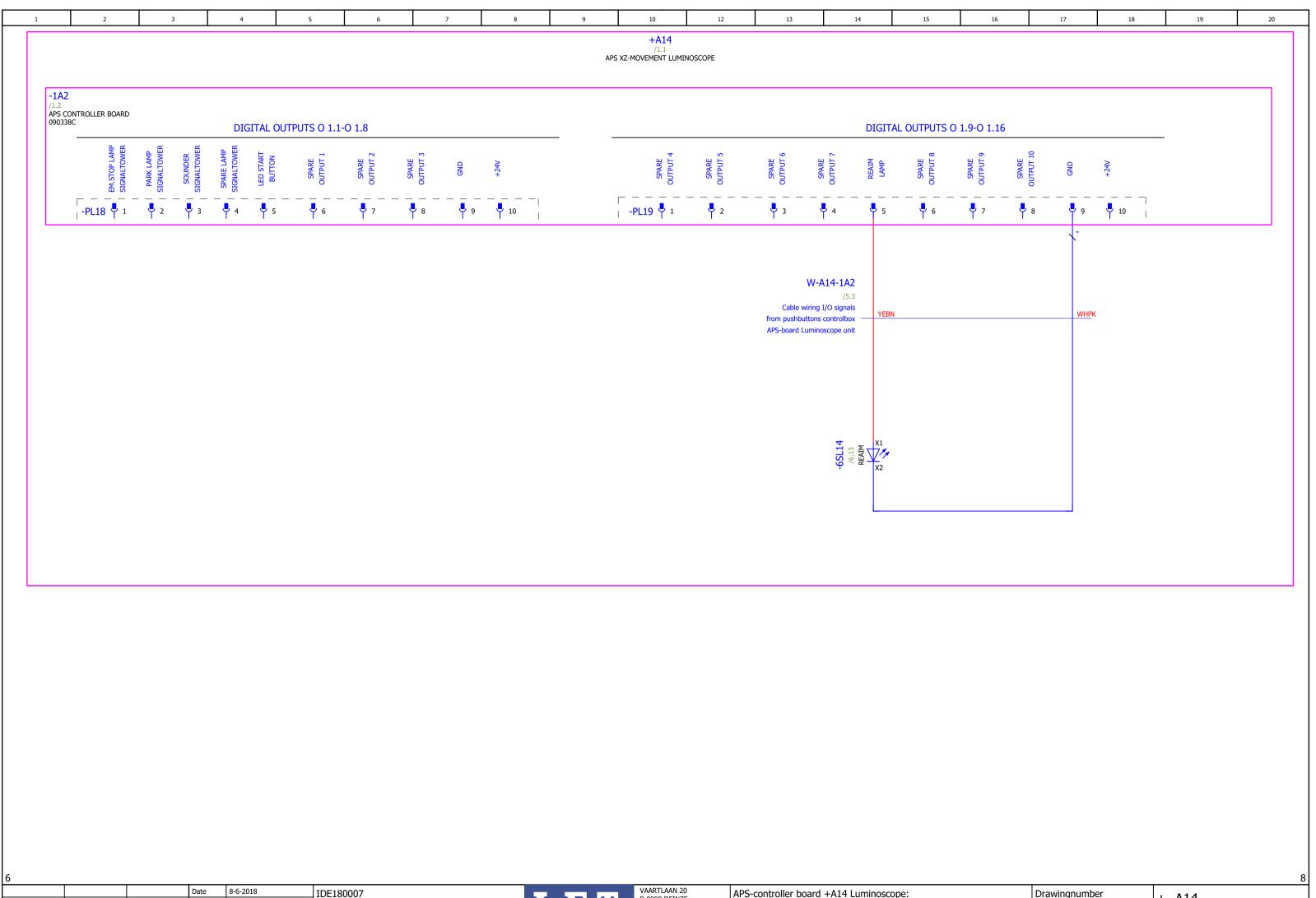
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8-6-2018 VAARTLAAN 20 Date IDE180007 APS-controller board +A14 Luminoscope: B-9800 DEINZE Ed. LET Luminoscope system TEL:+32 (0)9 381 87 87 FAX:+32 (0)9 386 92 00 EMAIL:INFO@LET.BE Appr LVC1050-APS-TM (Simplified) AUTOMOTIVE Modification Date Original

plugs input signals APS-board & connection with pushbuttons controlbox + photoelectric proximity sensor tool Luminoscope Drawingnumber IDE180007 + A14 Page

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Luminoscope system

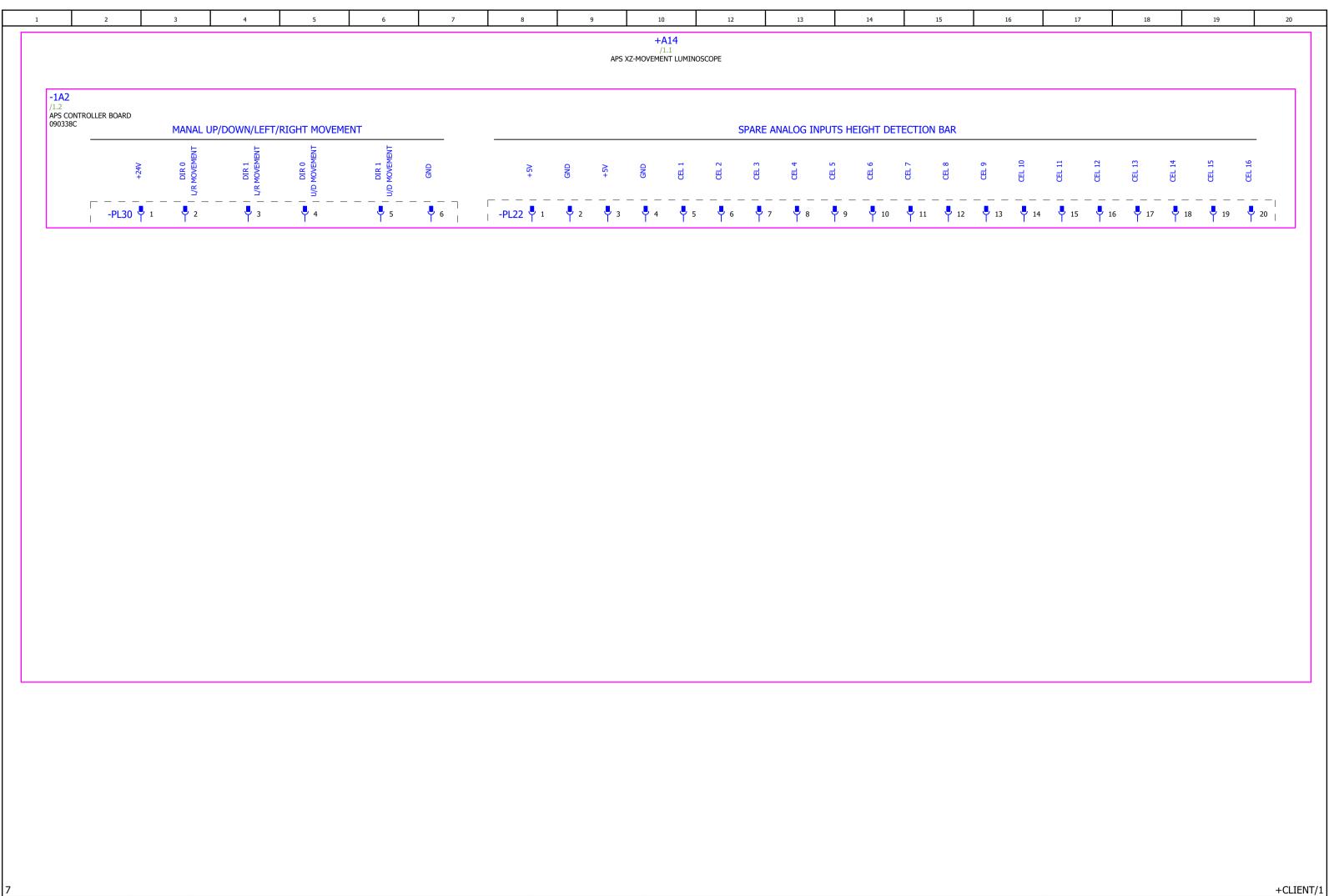
LVC1050-APS-TM (Simplified)

VAARTLAAN 20
B-9800 DEINZE
TEL:+32 (0)9 381 87 87
FAX:+32 (0)9 386 92 00
EMAIL:INFO@LET.BE

APS-controller board +A14 Luminoscope:
plugs output signals APS-board & connection with leds
illuminated pushbuttons controlbox Luminoscope

Total

Page
Total



8-6-2018

LET

IDE180007

Luminoscope system

LVC1050-APS-TM (Simplified)

Date

Ed.

Appr

Original

Modification

Date

AUTOMOTIVE

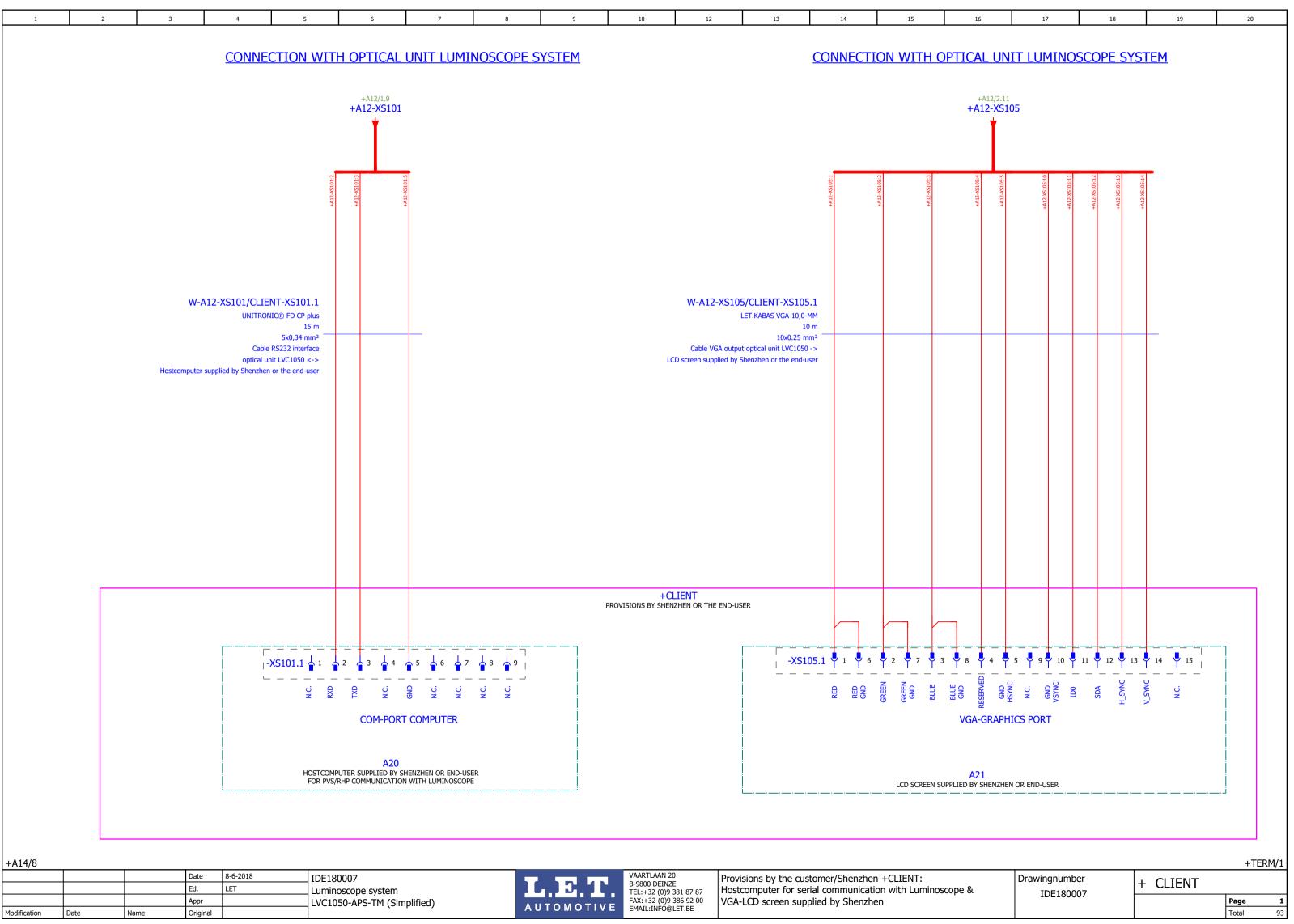
VAARTLAAN 20
B-9800 DEINZE
TEL:+32 (0)9 381 87 87
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EMAIL:INFO@LET.BE

APS-controller board +A14 Luminoscope:
spare plug for manual up/down pushbuttons controlbox +
spare plug for conection height detection bar

Drawingnumber
IDE180007

HA14

Page
Total



Terminal-strip overview Terminals Graphical page of terminal connection diagram Terminal strip Terminal strip definition text first last Total PE Total N Total number 6PE +TERM/2 +A1-XL0 Terminals power distribution internal compact power box 0 6 С 5 +A14-3H16-X1 0 +TERM/3 Terminals connection element from signaltower Luminoscope 0 +CLIENT/1 VAARTLAAN 20
B-9800 DEINZE
TEL:+32 (0)9 381 87 87
FAX:+32 (0)9 386 92 00
EMAIL:INFO@LET.BE 8-6-2018 Date IDE180007 Drawingnumber + TERM LET Ed. Luminoscope system Terminal strip summary IDE180007 Appr Page LVC1050-APS-TM (Simplified) Modification Date Total Original

	1	2		3		4	5		6		7	8	9	11		12	13	14	1	15	16		17	18	
Геrm	ninal	l strip	cor	necti	on (	diad	gram	)																	
		- Sc. 1P					J. G. I.		W-CL				Ter	minal st	rip desig	ınation									
									W-CLIENT/A1-XL0	Cable name										Cable name					
									-XL0	nam				+A	1-XL0					nam					
										Ē		7	Terminals powe	r distributi	on internal o	compact po	ower box			Ē					
									ÖLFLE mm²																
									X® CΓ	Cable			Conne	Terminal	Jumper				Conne	Cable					
									ASSIC 1	Cable type			Connection point	ninal	ıper				Connection point	Cable type					
									ÖLFLEX® CLASSIC 100 3x1,5 mm²																
	F	-unction text							5		Tar	get designation					Target desig	gnation						Page / colum	n
20VAC/L									BN	_	L			1	•	-1S3			2	1 T			/1.3		
20VAC/N E	l								BU GNYE	-	N PE			2 3PE	1	-1S3 -1G8			4 PE	1			/1.4		
<u>-</u> :									Civit		-XS0		E	4PE	•	-PE1			PE				/1.5		
											-1H15		X2	5PE	•	-PE2			PE				/1.6		
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			Ed. Appr	LET		Lumin	oscope sys	stem	مانون عار			TOMOTIVE	B-9800 DEINZE TEL:+32 (0)9 3	81 87 87 86 92 nn	Terminal st	rip connecti	ion diagram					180007	-	+ TERM	—
I		Name	Original	1		1 LVC10	J3U-APS-11	vi (Sim)	ыпеа)		AL	JTOMOTIVE	EMAIL:INFO@L	ET.BE											-

Page   Page					Cable name		+A14	trip desig			W-A14-1A2-PL14/A14-3H16	
EM_ST LAMP         -3H16-H1         X1         1         -1A2-PL14         10         BN         /3.17           PARK LAMP         -3H16-H2         X1         2         -1A2-PL14         11         YE         /3.18           SOUNDER         -3H16-H3         X1         3         -1A2-PL14         12         GN         /3.19           SPARE LAMP         4         -1A2-PL14         13         GY         /3.19				control by			Terminal	Jumper			UNITRONIC® FD CP plus 5x0 mm²	
PARK LAMP -3H16-H2 X1 21A2-PL14 11 YE /3.18 COUNDER -3H16-H3 X1 31A2-PL14 12 GN /3.19 CPARE LAMP -3H16-H3 X1 -1A2-PL14 13 GY /3.19												
SOUNDER -3H16-H3 X1 31A2-PL14 12 GN /3.19 SPARE LAMP GY /3.19 GY /3.19												
SPARE LAMP 4 • -1A2-PL14 13 GY /3.19												
3ND 3H16-H3 X2 C , 1A2-PL14 14 WH 73.20											GY	
	ind				-3H16-H3	X2	С	•	-1A2-PL14	14	WH	/3.20

## Plug-strip overview

Plug designation	Plug definition text		1	Plug			Graphical page of
riug designation	Fidg definition text	first	last	Total PE	Total N	Total number	plug connection diagram
+A1-XS0	Plug 24Vdc power supply compact power box -> Luminoscope system	1	Е	1	0	7	+PLUG/2
+A12-XS100	Plug 24Vdc power input optical unit Luminoscope system	A	В	0	0	2	+PLUG/3
+A12-XS101	Plug RS232 communication port optical unit Luminoscope system	1	9	0	0	9	+PLUG/4
+A12-XS102	Plug output canbus interface optical unit Luminoscope system	1	4	0	0	4	+PLUG/5
+A12-XS103	Plug parallel I/O interface optical unit Luminoscope system	1	25	0	0	25	+PLUG/6
+A12-XS104	Plug 12Vdc power output optical unit to LCD screen Luminoscope	1	4	0	0	3	+PLUG/7
+A12-XS105	Plug VGA-graphics output optical unit to LCD screen Luminoscope	1	15	0	0	15	+PLUG/8
+A14-1A2-PL1	Plug Emergency stop & start circuit APS-board Luminoscope system	1	8	0	0	7	+PLUG/9
+A14-1A2-PL4	Plug 24Vdc power output APS-board Luminoscope system	1	2	0	0	2	+PLUG/10
+A14-1A2-PL5	Plug 24Vdc power input APS-board Luminoscope system	1	3	0	0	2	+PLUG/11
+A14-1A2-PL6	RS232 programmation plug APS-board Luminoscope system	1	3	0	0	3	+PLUG/12
+A14-1A2-PL7	Plug input canbus interface APS-board Luminoscope system	1	4	0	0	4	+PLUG/13
+A14-1A2-PL8	Plug output canbus interface APS-board Luminoscope system	1	4	0	0	4	+PLUG/14
+A14-1A2-PL9	Plug for connection encoder L/R movement APS-board Luminoscope system	1	10	0	0	10	+PLUG/15
+A14-1A2-PL10	Plug for connection zero switch L/R movement APS-board Luminoscope system	1	3	0	0	3	+PLUG/16
+A14-1A2-PL11	Plug for connection limit switch L/R movement APS-board Luminoscope system	1	4	0	0	4	+PLUG/17
+A14-1A2-PL12	Plug for connection motor L/R movement APS-board Luminoscope system	1	2	0	0	2	+PLUG/18
+A14-1A2-PL13	Plug for connection encoder U/D movement APS-board Luminoscope system	1	10	0	0	10	+PLUG/19
+A14-1A2-PL14	Plug for connection switches U/D movement APS-board Luminoscope system	1	14	0	0	14	+PLUG/20
+A14-1A2-PL15	Plug for connection motor U/D movement APS-board Luminoscope system	1	4	0	0	4	+PLUG/21
+A14-1A2-PL16	Plug digital inputs I 1.01-I 1.08 controlbox APS-board Luminoscope system	1	10	0	0	10	+PLUG/22
+A14-1A2-PL17	Plug digital inputs I 1.09-I 1.16 controlbox APS-board Luminoscope system	1	10	0	0	10	+PLUG/23
+A14-1A2-PL18	Plug digital outputs O 1.01-O 1.08 controlbox APS-board Luminoscope system	1	10	0	0	10	+PLUG/24
+A14-1A2-PL19	Plug digital outputs O 1.09-O 1.16 controlbox APS-board Luminoscope system	1	10	0	0	10	+PLUG/25
+A14-1A2-PL22	Spare plug for connection height detection bar on APS-board Luminoscope system	1	20	0	0	20	+PLUG/26
+A14-1A2-PL23	Plug with 'Hold' Signal APS-board Luminoscope system	1	3	0	0	3	+PLUG/27
+A14-1A2-PL30	Plug for connection pushbuttons manual UDLR movement on APS-board Luminoscope	1	6	0	0	6	+PLUG/28
+A14-2B1-PL9.1	Plug encoder L/R movement Luminoscope system	1	5	0	0	5	+PLUG/29
+A14-3B2-PL13.1	Plug encoder from Z-motormodule U/D movement Luminoscope system	1	10	0	0	10	+PLUG/30
+A14-4M2-PL15.1	Plug motor & brake Z-motormodule U/D movement Luminoscope system	1	6	0	0	6	+PLUG/31
+A14-2SE6-PL10.1	Plug zero proximity switch L/R movement Luminoscope system	1	4	0	0	3	+PLUG/32
+CLIENT-XS101.1	Plug from COM-port hostcomputer supllied by Shenzhen or the end-user	1	9	0	0	9	+PLUG/33
+CLIENT-XS105.1	Plug from VGA-port LCD-screen supllied by Shenzhen or the end-user	1	15	0	0	15	+PLUG/34

+TERM/3					
			Date	8-6-2018	IDE180007
			Ed.	LET	Luminoscope system
			Appr		LVC1050-APS-TM (Simplified)
Modification	Date	Name	Original		



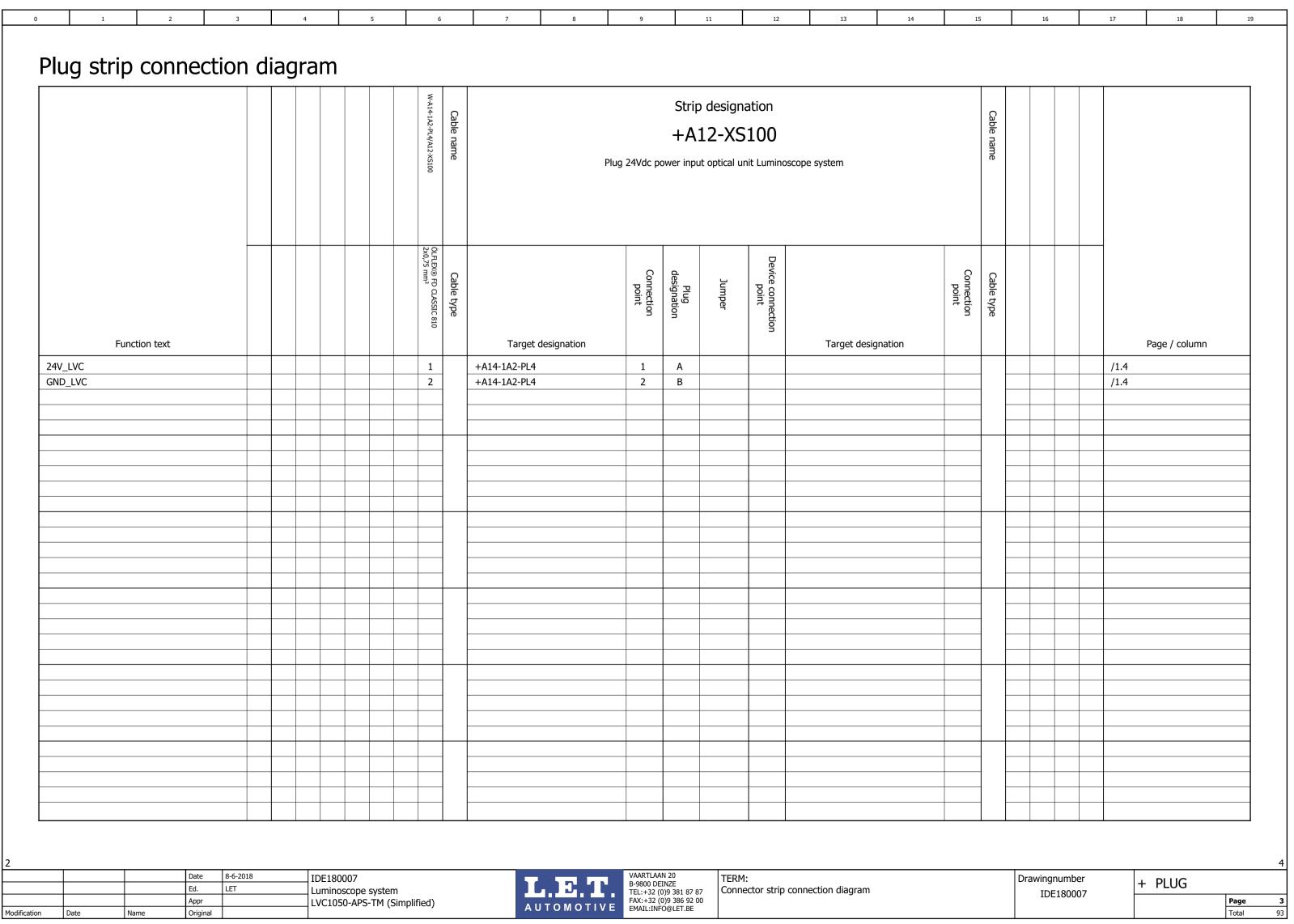
Connector strip summary

Drawingnumber IDE180007

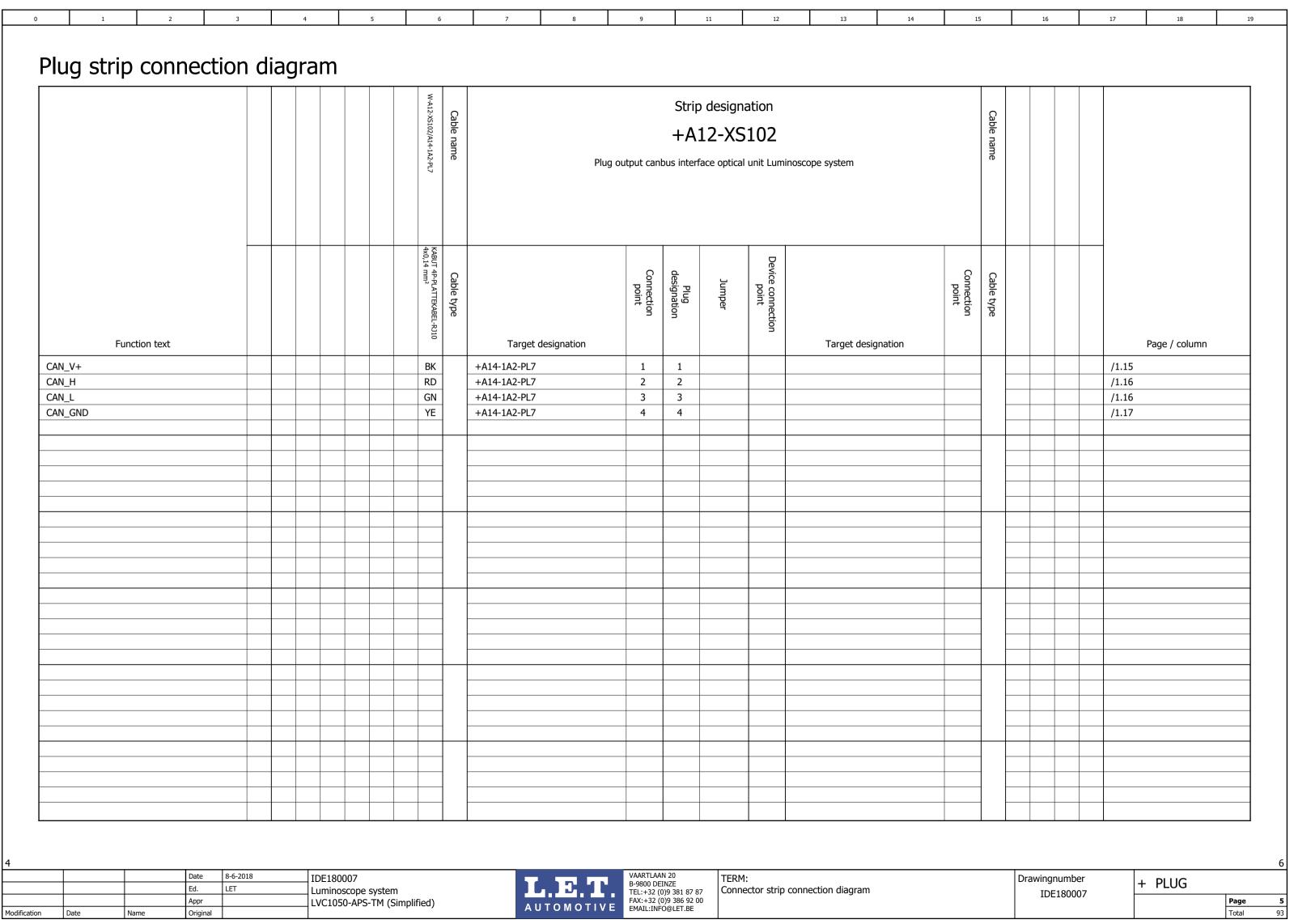
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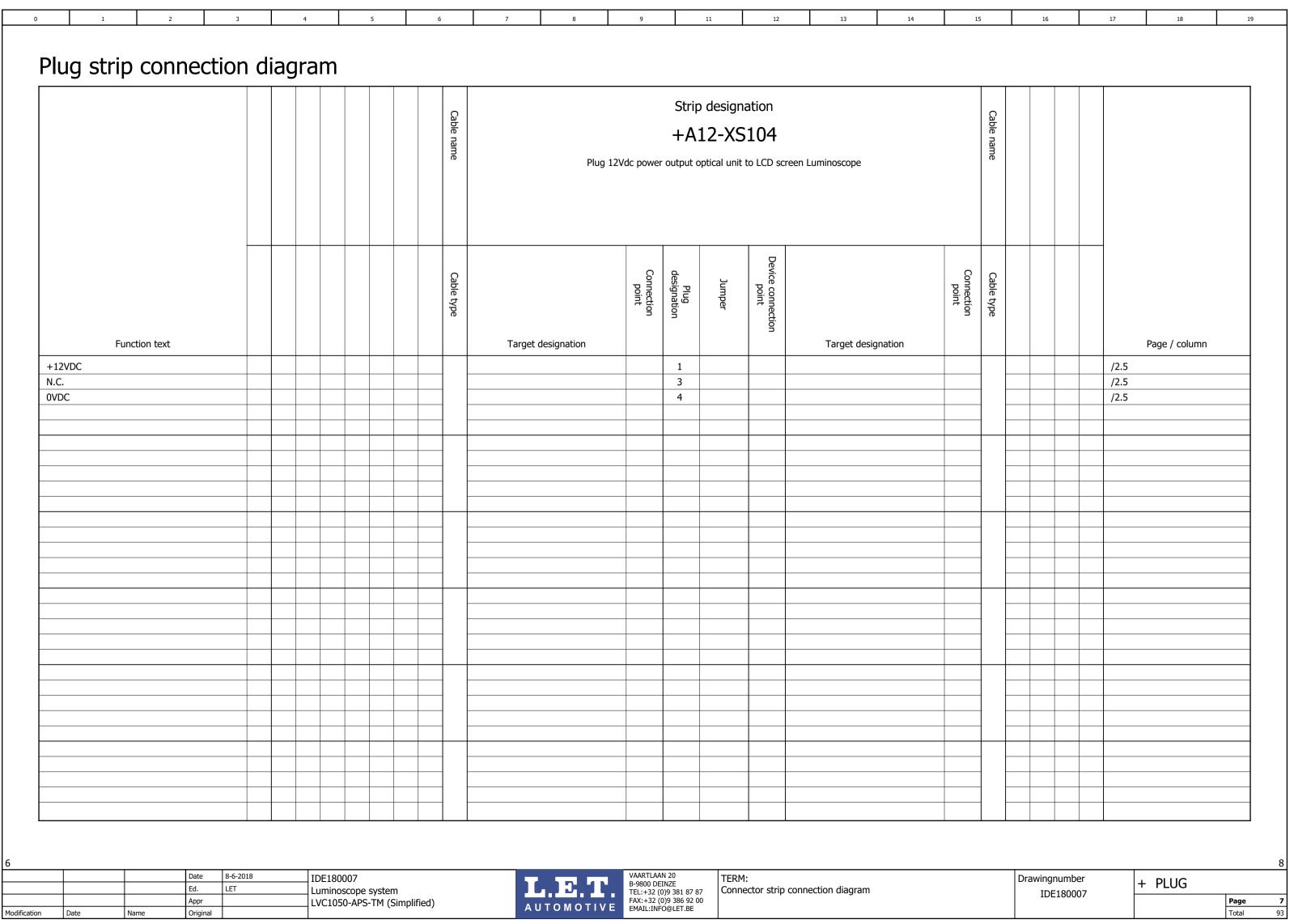
Function text  Functi	e / column
24VDC APS  1	
ND APS 4VDC DIS ND DIS .C. +A14-1A2-PL5 3 2 -1G8 -1G8 +'   /1.12   /1.12   /1.13   /1.13   /1.13   /1.13   /1.13   /1.13   /1.13   /1.14	
AVDC DIS ND DIS C. 1	
ND DIS 4 / /1.13 .C. 5 / /1.13 .C. 6 / /1.14	
.C. 5 /1.13 /1.14	
6 /1.14	
E GNYE +A14-1A2-PL5 2 E -XLO 4PE //1.14	



Function te .C. XD XD .C. ND .C.	text		Cable type  UNITRONIC® FD CP plus 5x0,34  BB H G	Target designation  +CLIENT-XS101.1 +CLIENT-XS101.1 +CLIENT-XS101.1;W-A12-XS101/	Connection  2  3  CLIENS-XS	6 7 8	Jumper	Device connection point	Target designation	Connection	Cable type	Page / column  /1.8  /1.8  /1.9  /1.10  /1.10  /1.11  /1.11
XD XD .C. ND .C.			YE	+CLIENT-XS101.1	3	2 3 4 510151 6 7 8						/1.8 /1.9 /1.9 /1.10 /1.11
XD .C. ND .C.			YE	+CLIENT-XS101.1	3	3 4 510151 6 7 8						/1.9 /1.9 /1.10 /1.11 /1.11
.C. ND .C.						4 510151 6 7 8						/1.9 /1.10 /1.10 /1.11
ND C.			GN	+CLIENT-XS101.1;W-A12-XS101/	CLIEN5-XS	6 6 7 8						/1.10 /1.10 /1.11
C.			GN	+CLIENT-XS101.1;W-A12-XS101/	CLIENS-XS	6 7 8						/1.10 /1.11
						7 8						/1.11
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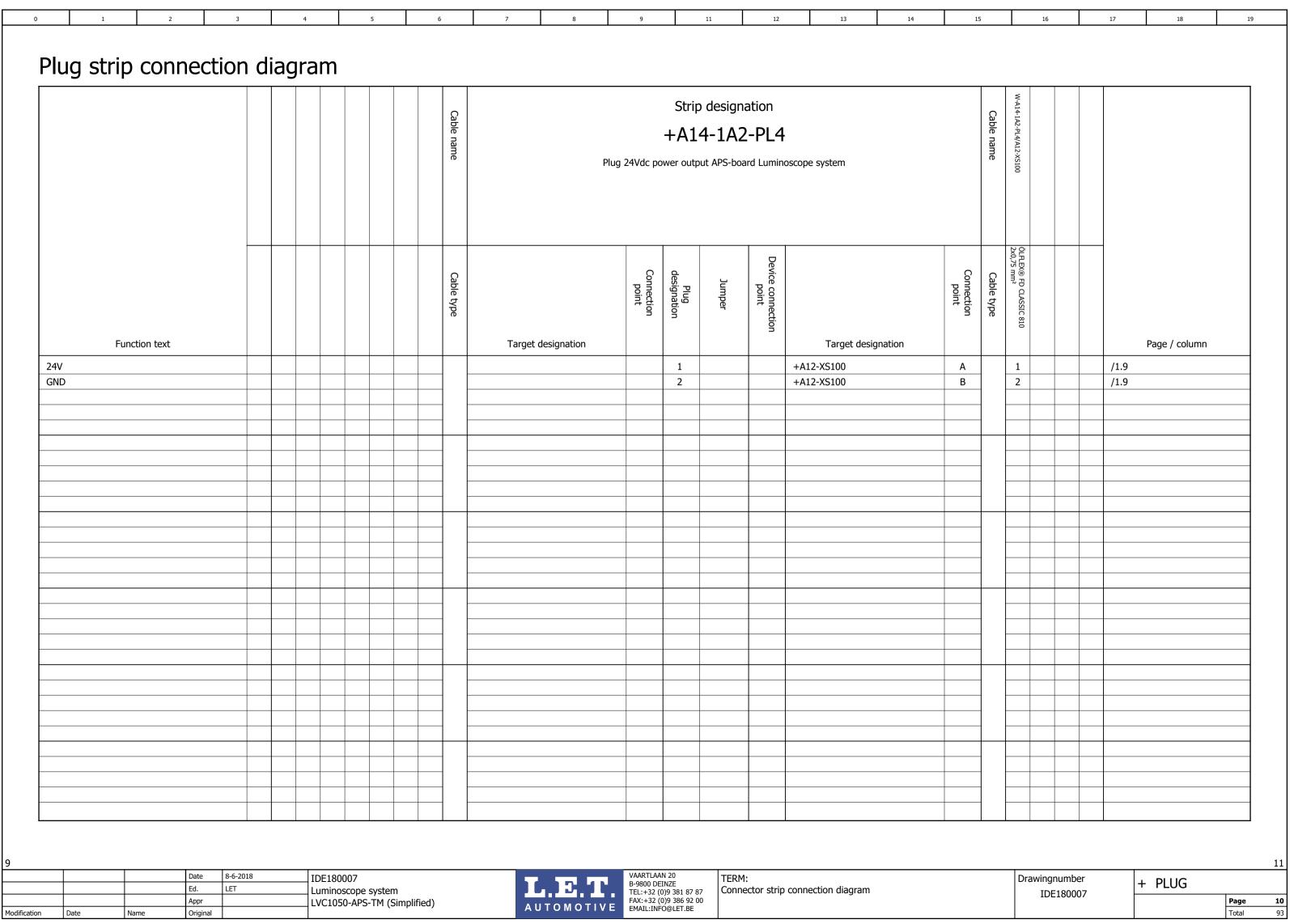


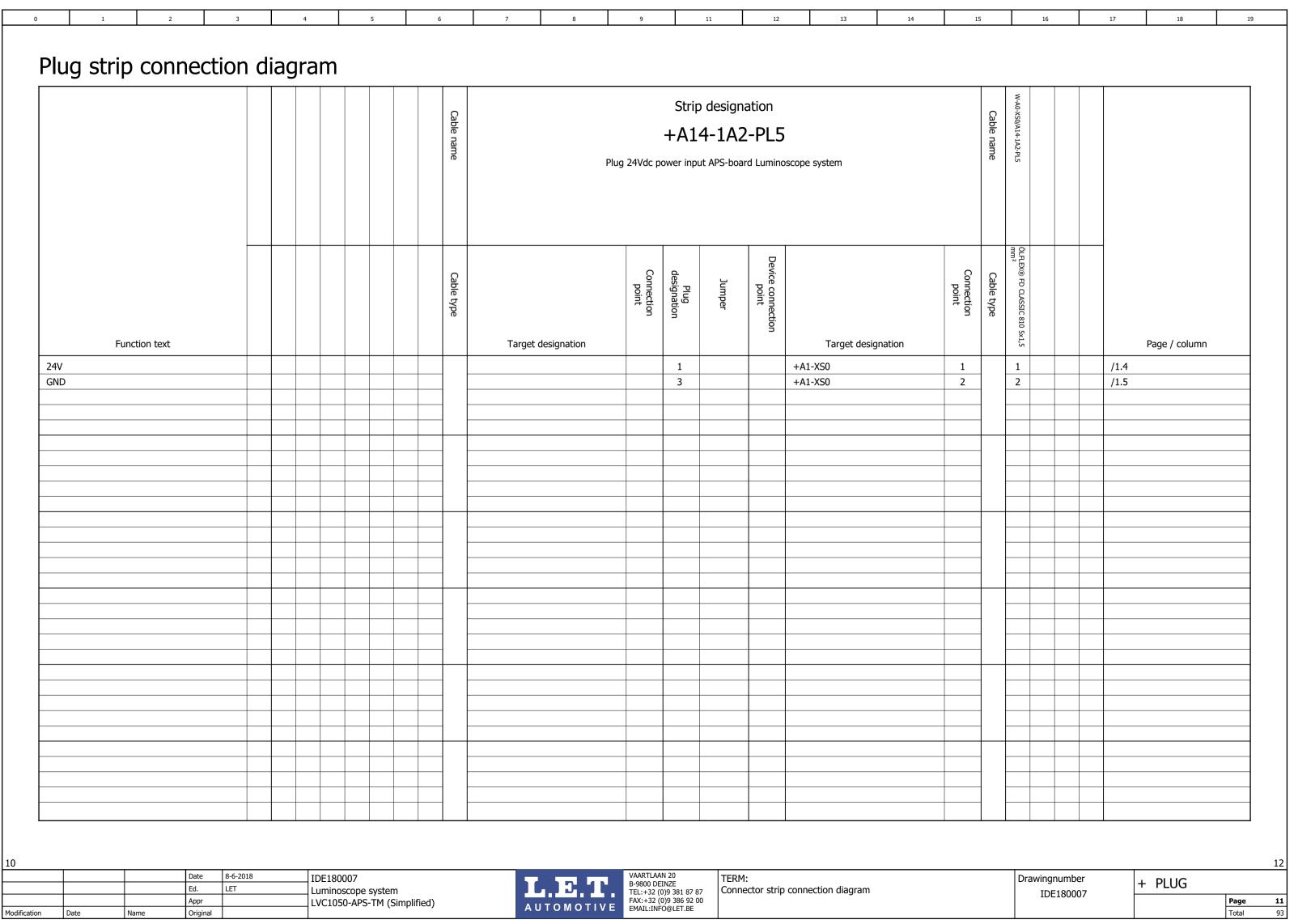
Cable type	Target designation	Connection point	designation  1 2 3 4 5 6 7 8 9 10 11 12	Jumper	Device connection point	Target designation	Connection	Cable type		Page / column  /3.4 /3.5 /3.5 /3.6 /3.6 /3.6 /3.7 /3.7 /3.7 /3.7 /3.8
	Target designation		2 3 4 5 6 7 8 9 10 11			Target designation				/3.4 /3.5 /3.5 /3.6 /3.6 /3.6 /3.7 /3.7 /3.7 /3.7
			2 3 4 5 6 7 8 9 10 11							/3.5 /3.5 /3.6 /3.6 /3.6 /3.7 /3.7 /3.7 /3.8
			2 3 4 5 6 7 8 9 10 11							/3.5 /3.5 /3.6 /3.6 /3.6 /3.7 /3.7 /3.7 /3.8
			3 4 5 6 7 8 9 10 11							/3.5 /3.6 /3.6 /3.6 /3.7 /3.7 /3.7 /3.8
			4 5 6 7 8 9 10 11							/3.6 /3.6 /3.6 /3.7 /3.7 /3.7 /3.8
			5 6 7 8 9 10 11							/3.6 /3.6 /3.7 /3.7 /3.7 /3.8
			6 7 8 9 10 11 12							/3.6 /3.7 /3.7 /3.7 /3.8
			7 8 9 10 11 12							/3.7 /3.7 /3.7 /3.8
			8 9 10 11 12							/3.7 /3.7 /3.8
			9 10 11 12							/3.7 /3.8
			10 11 12							/3.8
			11 12							
			12							/3.8
								+ +		/3.9
+++			13					1		/3.9
			14					+ +		/3.9
			15					+ +		/3.10
			16							/3.10
+++			17					+ ++		/3.11
+			18							/3.11
-+-+			19					1		/3.11
++++								+		
+ + +										/3.12 /3.12
+++										/3.12
+										/3.13
+++										/3.13
++++								1		/3.13
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-+-+								1		
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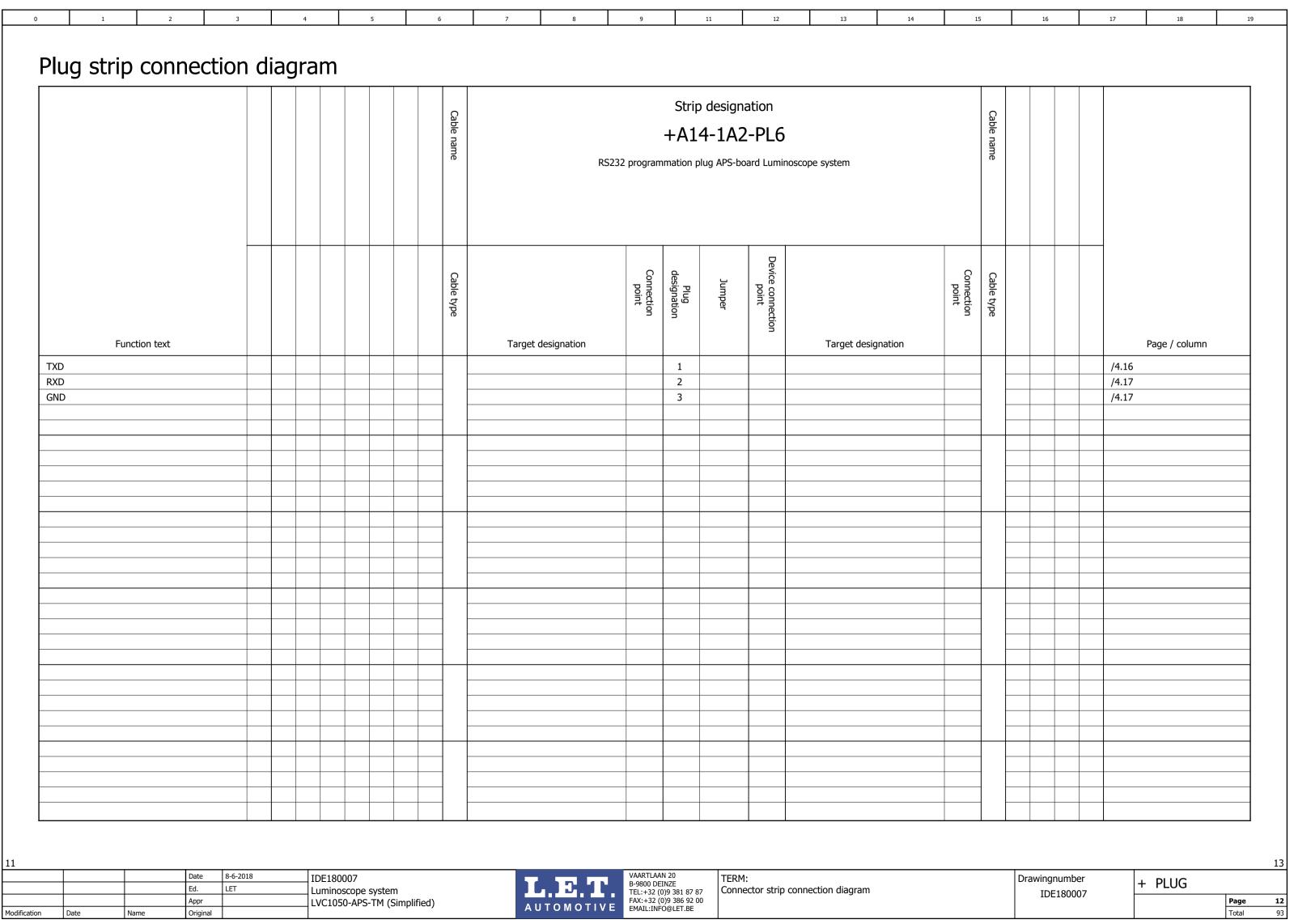


Plug strip connection diagram W-A12-XS105/CLIENT-XS105.1 Strip designation +A12-XS105 Plug VGA-graphics output optical unit to LCD screen Luminoscope LET.KABAS VGA-10,0-MM 10x0.25 mm² Device connection point Connection point Cable type Function text Target designation Target designation Page / column RED +CLIENT-XS105.1;-XS105 /2.8 <del>0,7</del>7 +CLIENT-XS105.1;-XS105 2 /2.9 GREEN <del>92</del>5 BLUE +CLIENT-XS105.1;-XS105 3 3 /2.10 <del>0.25</del> +CLIENT-XS105.1 /2.11 **RESERVED** 4 <del>1</del> +CLIENT-XS105.1 5 /2.11 **GND HSYNC** /2.9 **RED GND** -XS105 6 **GREEN GND** -XS105 2 7 /2.10 **BLUE GND** -XS105 3 8 /2.10 N.C. 9 /2.11 +CLIENT-XS105.1 /2.12 **GND VSYNC** 10 10 ID0 +CLIENT-XS105.1 11 11 /2.12 9<del>8</del>₩ SDA +CLIENT-XS105.1 12 12 /2.13 <del>9.14</del> H\_SYNC +CLIENT-XS105.1 13 13 /2.13 0<sub>v1</sub>4 V\_SYNC +CLIENT-XS105.1 14 14 /2.13 15 /2.14 8-6-2018 VAARTLAAN 20 Date IDE180007 Drawingnumber + PLUG LET TEL:+32 (0)9 381 87 87 FAX:+32 (0)9 386 92 00 EMAIL:INFO@LET.BE Connector strip connection diagram Luminoscope system IDE180007 Appr LVC1050-APS-TM (Simplified) Page AUTOMOTIVE Total Modification Date Original

		Cable name	Plug Em		+A1	designa 4-1A2 circuit APS	-PL1	minoscope system		Cable name		
		Cable type UNITRONIC® FD CP plus 25x0,25 mm²		Connection point	Plug designation	Jumper	Device connection point		Connection point	Cable type		
Function text			Target designation					Target designation				Page / column
ND TART2		GY VT	-5SL6 -5SL6	24	2						/5.8 /5.8	
ED START		BU	-5SL6	X1	3				+		/5.8	
TART1		GN	-5SL6	13	4						/5.7	
24V		PK	-5SN4	24	6						/5.5	
MERG. STOP2		RD	-5SN4	23	7						/5.4	
		BN	-5SN4	11	8						/5.3	
											75.5	
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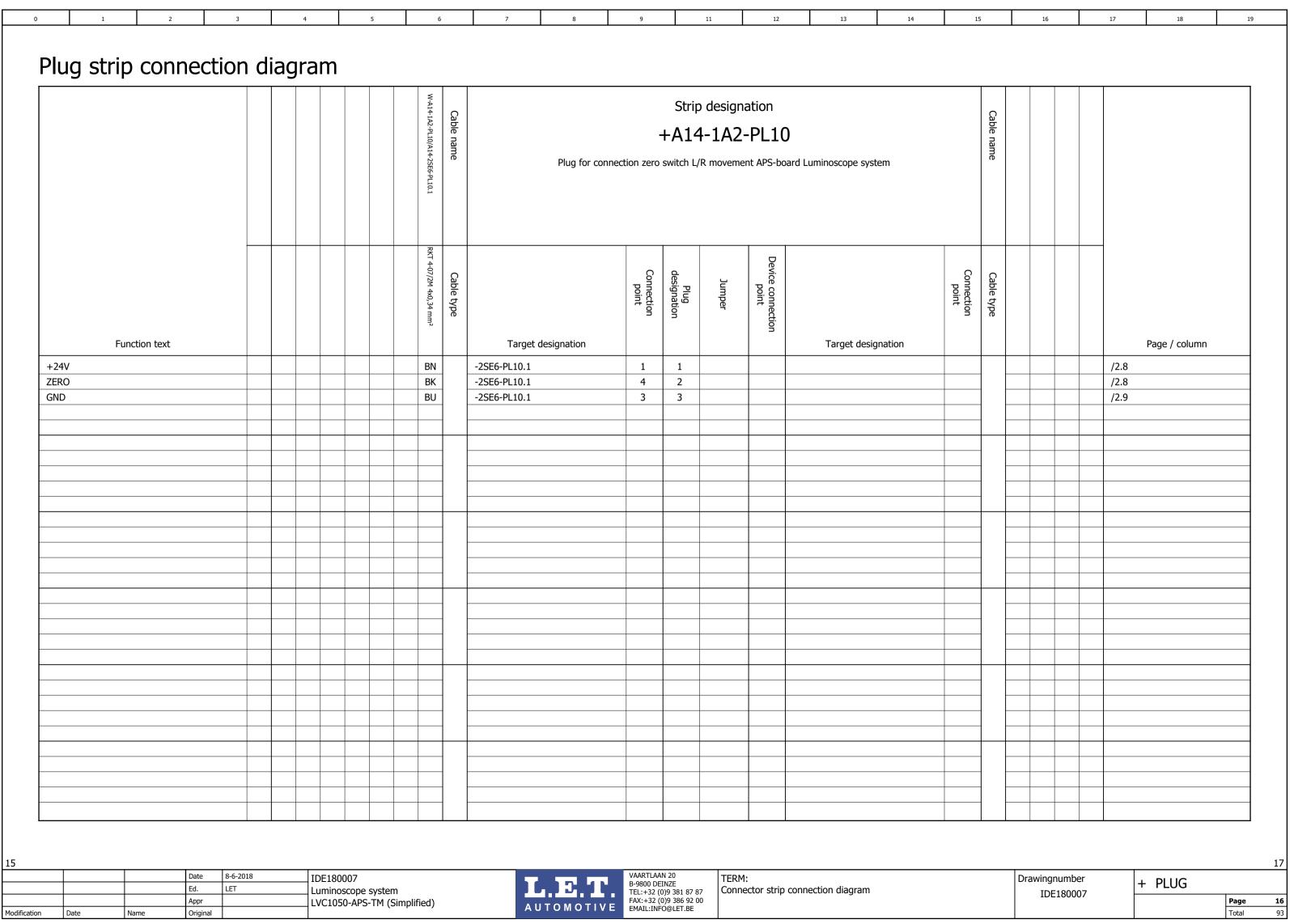




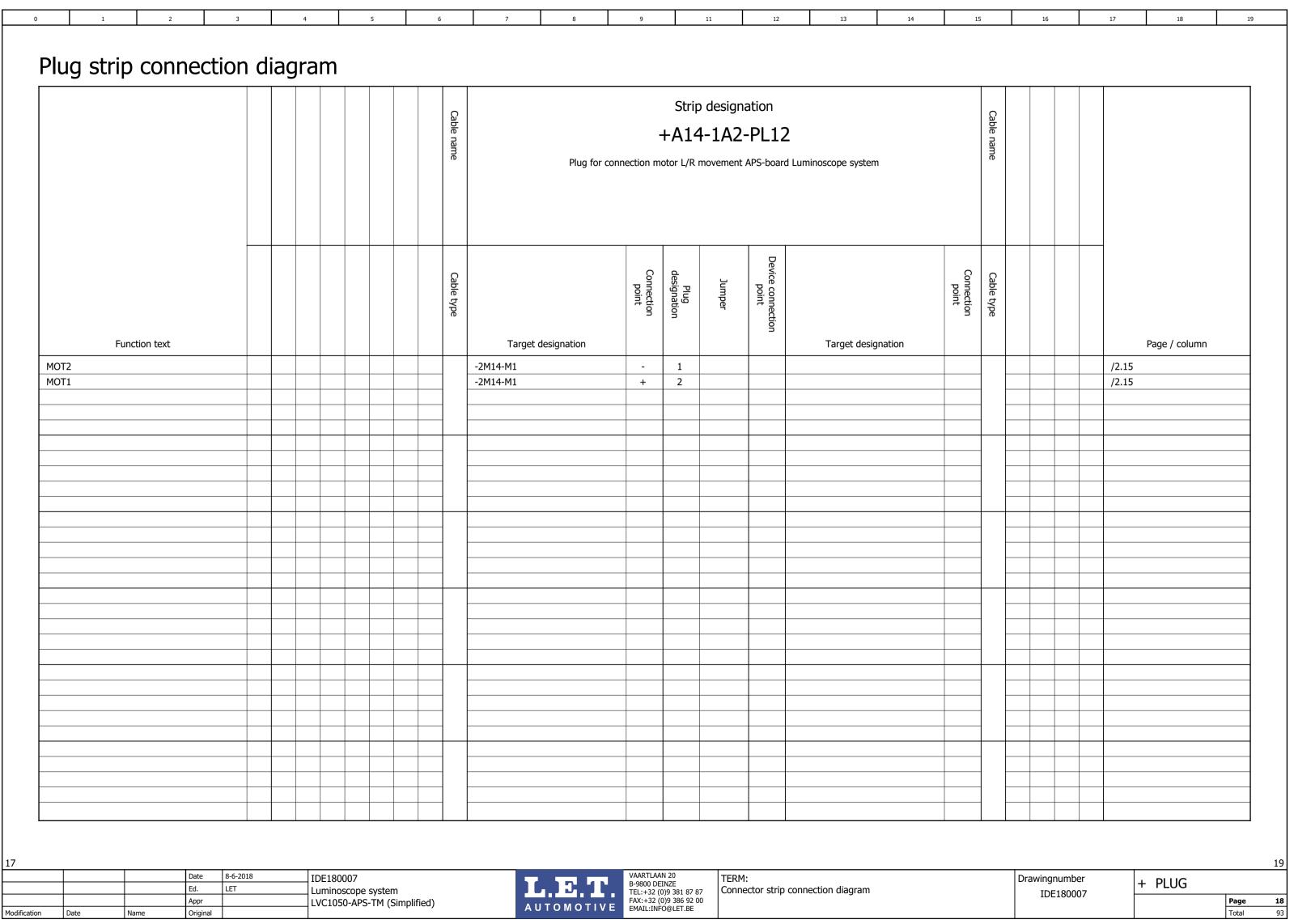
			1 1			Plug i				-PL7 ard Lumino	oscope system	Cable name		
Fun	action text			4x0,14 mm <sup>2</sup>	Cable type  KABUT 4P-PLATTEKABEL-RJ10	Target designation	Connection point	Plug designation	Jumper	Device connection point	Connection point  Target designation	Cable type		- Page / column
AN_V+				Bł		+A12-XS102	1	1						/1.13
AN_H AN_L				RI Gi		+A12-XS102 +A12-XS102	2	3				-		/1.13 /1.13
AN_GND				YE		+A12-XS102	4	4						/1.14
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					4							4		
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														<u> </u>

Punction text						Cable name W-A14-1A2-PL8	Plug o		+A14		-PL8	noscope system	Cable name		
CAN_V+ CAN_H CAN_L CAN_CAN_L    1	Fur	nction text				Cable type  KABUT 4P-PLATTEKABEL-RJ10  4x0.14 mm²	Target designation	Connection point	Plug designation	Jumper	Device connection point		Cable type		Page / column
CAN_L GN -RCAN 2 3 /1.17									1						
						GN	-RCAN	2							

Function GND N.C. CHA +5V CHB N.C. = = =	tion text				Cable type  LET 0MOT503570100 4x0.14  BK  HR  BR  BR  BR  BR  BR  BR  BR  BR  BR	Target designation -2B1-PL9.1 -2B1-PL9.1 -2B1-PL9.1 -2B1-PL9.1	Connection  point  1  3 4  5	Jumper  Jumper  1 2 3 4 5 6 7 8 9	Device connection point	Target designation	Connection point	Cable type	Page / column  /2.3 /2.4 /2.4 /2.4 /2.5 /2.5 /2.6 /2.6 /2.6
N.C. CHA +5V CHB N.C. =					WH RD	-2B1-PL9.1 -2B1-PL9.1	3 4	2 3 4 5 6 7 8					/2.4 /2.4 /2.4 /2.5 /2.5 /2.6 /2.6
CHA +5V CHB N.C. = =					RD	-2B1-PL9.1	4	3 4 5 6 7 8					/2.4 /2.4 /2.5 /2.5 /2.6 /2.6
+5V CHB N.C. = =					RD	-2B1-PL9.1	4	4 5 6 7 8					/2.4 /2.5 /2.5 /2.6 /2.6
CHB N.C. = =								5 6 7 8					/2.5 /2.5 /2.6 /2.6
I.C. = = =					BN	-2B1-PL9.1	5	6 7 8					/2.5 /2.6 /2.6
								7 8					/2.6 /2.6
								8					/2.6
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					W-A14-1A2-PL11/A14-2SD10	Cable name		Plug for connec		+A14	designation -1A2-PL11 R movement APS-bo	L pard Luminoscope system		Cable name			
Func	ction text				UNITRONIC® LIYY 4x0,34 mm²	Cable type	Target des	ignation	Connection point	Plug designation	Device connection point  Jumper	Target designation	Connection point	Cable type			Page / column
24V					BN		-2SD10-S1		С	1						/2.11	
MIT 0					YE		-2SD10-S1		NC	2						/2.12	
MIT 1 24V										3				-		/2.12 /2.13	
																, -	
														-			
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						-								-			
														_			
														-			
						1								1			



						W-A14-1A2-PL13/A14-3B2-PL13.1	Cable name	Plug for con		Strip de: +A14-1	A2-F	PL13	d Luminoscope system		Cable name			
						UNITRONIC® FD CP plus 10x0,14 mm²	Cable type		Connection point	Plug designation	Jumper	Device connection point		Connection point	Cable type			
	Function text							Target designation					Target designation					Page / column
1.C.						BN		-3B2-PL13.1	1	1							/3.3	
+5V						RD	1	-3B2-PL13.1	2	2					1		/3.3	
IND						PK		-3B2-PL13.1	3	3							/3.4	
I.C.						YE		-3B2-PL13.1	4	4							/3.4	
HA-						GN		-3B2-PL13.1	5	5							/3.5	
HA+						BU		-3B2-PL13.1	6	6							/3.5	
CHB-						VT		-3B2-PL13.1	7	7					1		/3.5	
HB+						GY		-3B2-PL13.1	8	8							/3.6	
CHO-						WH		-3B2-PL13.1	9	9							/3.6	
CH0+						BK		-3B2-PL13.1	10	10							/3.7	
							-								-			
							1				+				$+$ $\vdash$			
											+				$+$ $\vdash$			
															$+$ $\vdash$			
					+ + +						+							
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		Date 8-6-20	)18	IDF180	007				VAARTLA	AN 20	TFRM:					Drawingnur	mber	
		Date 8-6-20 Ed. LET Appr	018	IDE180	007 scope system 0-APS-TM (Simpl			L.E.T.	VAARTLA B-9800 D TEL:+32	AN 20 EINZE (0)9 381 87 87 (0)9 386 92 00 FO@LET.BE	TERM: Connect	tor strip o	connection diagram			Drawingnur IDE18		+ PLUG

Plug strip connection diagram W-A14-1A2-PL14/A14-3SE8 Strip designation +A14-1A2-PL14 Plug for connection switches U/D movement APS-board Luminoscope system JNITRONIC® LiYY 4x0,25 mm² Device connection point -Q08-VP6X2 4x0,25 mm² Connection point Cable type Function text Target designation Target designation Page / column BN -3SE8-S1 /3.9 +24V BK 2 /3.9 ZERO -3SE8-S1 BU GND -3SE8-S1 2 3 /3.9 /3.12 +24V BN -3SD10-S1 ΥE NC 5 /3.12 LIM0 -3SD10-S1 6 /3.12 **GND** +24V BN 7 /3.14 -3SD14-S1 ΥE LIM1 -3SD14-S1 NC 8 /3.15 /3.15 **GND** 9 /3.17 EM\_ST LAMP BN -3H16-X1 10 PARK LAMP YΕ -3H16-X1 2 11 /3.18 SOUNDER GN -3H16-X1 3 12 /3.19 SPARE LAMP GΥ 13 /3.19 -3H16-X1 4 GND WH С 14 /3.20 -3H16-X1 21 8-6-2018 VAARTLAAN 20 IDE180007 Drawingnumber + PLUG LET TEL:+32 (0)9 381 87 87 FAX:+32 (0)9 386 92 00 EMAIL:INFO@LET.BE Connector strip connection diagram Luminoscope system IDE180007 Appr LVC1050-APS-TM (Simplified) Page AUTOMOTIVE

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		Cable name W-A14-1A2-PL15/A14-4M2-PL15.1	Plug for con		<b>+A1</b> 4		-PL15	Luminoscope system		Cable name		
Eurotion tout		Cable type ÖLFLEX® FD CLASSIC 810 5x0,75 mm²	Taxact designation	Connection point	Plug designation	Jumper	Device connection point	Taxaat decignation	Connection point	Cable type		Page / column
Function text  10T-		1	Target designation -4M2-PL15.1	1	1			Target designation			/4.3	Page / column
IOT+		2	-4M2-PL15.1	4	2						/4.4	
RAKE+		3	-4M2-PL15.1	3	3						/4.7	
RAKE-		4	-4M2-PL15.1	6	4						/4.8	
				+					+	<del>                                     </del>		

	Cable name	Plug digital iı		+A14		-PL16	d Luminoscope system		Cable name	
Function text	Cable type	Target designation	Connection point	Plug designation	Jumper	Device connection point	Target designation	Connection point	Cable type	Page / column
M.STOP BUTTON				1						/6.2
ROCESS STOP				2						/6.2
FART BUTTON				3						/6.3
PARE INPUT 1				4						/6.4
PARE INPUT 2				5						/6.4
PARE INPUT 3				6						/6.5
PARE INPUT 4				7						/6.6
PARE INPUT 5				8						/6.6
ND				9						/6.7
24V				10						/6.8
						1				
						+ +				
									<u>                                     </u>	

Plug strip connection diagram W-A14-1A2 Strip designation Cable name +A14-1A2-PL17 Plug digital inputs I 1.09-I 1.16 controlbox APS-board Luminoscope system UNITRONIC® FD CP plus 25x0,25 mm² Device connection point Connection point Function text Target designation Target designation Page / column SPARE INPUT 5 /6.10 SPARE INPUT 6 2 /6.11 SPARE INPUT 4 3 /6.11 -6S12 /6.12 MOVE BUTTON WH 13 -6SL14 REAIM BUTTON BK 13 5 /6.13 ABORT BUTTON BNRD -6S15 13 6 /6.14 VALIDATE BUTTON BNGN -6S16 13 7 /6.15 AIM/AUDIT SWITCH BNBU -6S17 /6.17 13 8 GND /6.18 9 RDBU -6S17 10 +24V 14 /6.18 24 8-6-2018 VAARTLAAN 20 IDE180007 Drawingnumber + PLUG LET Luminoscope system AUTOMOTIVE EMAIL:INFO@LET.BE Connector strip connection diagram IDE180007 Appr Page LVC1050-APS-TM (Simplified)

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Function cost:    Function cost:   Target designation   Target designati					Cable name	Plug digital ou		+A14		-PL18	drd Luminoscope system		Cable name			
EM.STOP LAMP SIGNALTOWER PARK LAMP SIGNALTOWER SOUNDER SIGNALTOWER SPARE LAMP SIGNALTOWER SPARE OUTPUT 1 SPARE OUTPUT 2 SPARE OUTPUT 3 SPARE OUTPU	Function text				Cable type	Target designation	Connection point	Plug designation	Jumper	Device connection point	Target designation	Connection point	Cable type			Page / column
PARK LAMP SIGNALTOWER  SOUNDER SIGNALTOWER  SPARE LAMP SIGNALTOWER  SPARE LAMP SIGNALTOWER  LED START BUTTON  SPARE OUTPUT 2  SPARE OUTPUT 3  GND  Description of the state of	M STOP LAMP SIGNALTOWER							1							/7.2	
SOUNDER SIGNALTOWER SPARE LAMP SIGNALTOWER SPARE OUTPUT 1 SPARE OUTPUT 2 SPARE OUTPUT 3 SPARE OU													-			
PARE LAMP SIGNALTOWER         4         5         /7.4           ED START BUTTON         5         /7.5           PARE OUTPUT 1         6         /7.5           PARE OUTPUT 2         7         /7.6           PARE OUTPUT 3         8         /7.7           SND         /7.8								1					1			
ED START BUTTON PARE OUTPUT 1 PARE OUTPUT 2 PARE OUTPUT 3													1			
PARE OUTPUT 1 PARE OUTPUT 2 PARE OUTPUT 3 PA													1			
PARE OUTPUT 2 PARE OUTPUT 3 PA																
PARE OUTPUT 3 8													1			
ND 9 /7.8								_					1			
													1			
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Date 8-6-2018    Date 8-6-2018   IDE180007   Luminoscope system   LVC1050-APS-TM (Simplified)   LUTO MOTIVE   Luminoscope system   LUTO MOTIVE   L			INE 18000/	cyctom		اللواليكان والأرابا	B-9800 DE	EINZE	, LConn	l: actor ctrin	connection diagram		ا			+ PLUG

		Cable name W-414-1A2	Plug digital ou		+ <b>A</b> 14		-PL19	rd Luminoscope system		Cable name	
Function text		Cable type UNITRONIC® FD CP plus 25x0,25 mm²	Target designation	Connection point	Plug designation	Jumper	Device connection point	Target designation	Connection point	Cable type	Page / column
PARE OUTPUT 4					1						/7.11
PARE OUTPUT 5					2						/7.11
PARE OUTPUT 6					3						/7.12
PARE OUTPUT 7					4						/7.13
EAIM LAMP		YEBN	-6SL14	X1	5		+ +				/7.14
PARE OUTPUT 8		TEDIN	03211		6						/7.15
PARE OUTPUT 9					7						/7.15
PARE OUTPUT 10					8						/7.16
GND		WHPK	-6SL14	X2	9						/7.17
-24V					10						/7.17
							+ +				
											+
							† †				
		<u> </u>									 

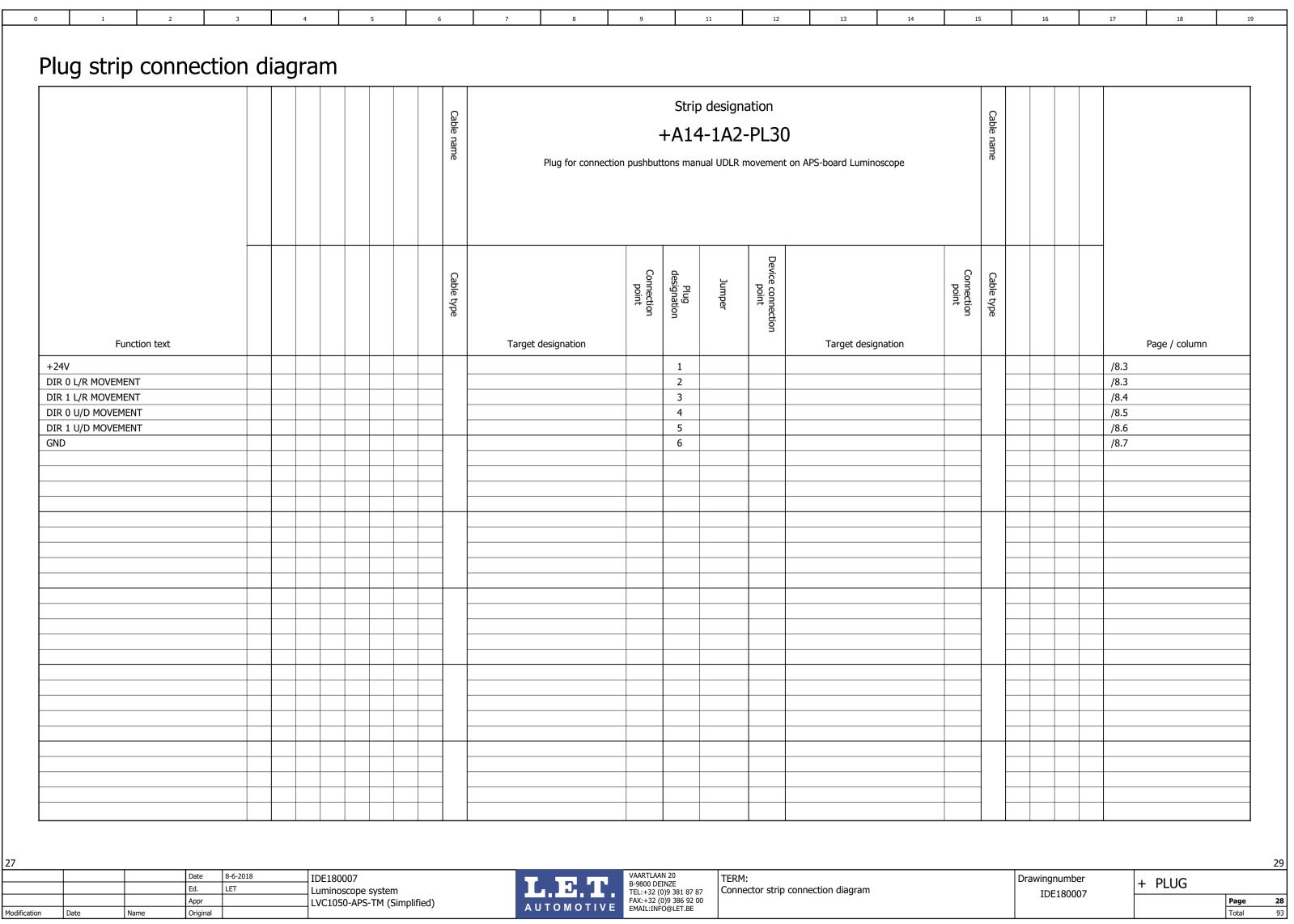
Plug strip connection diagram Strip designation Cable name +A14-1A2-PL22 Spare plug for connection height detection bar on APS-board Luminoscope system Device connection point Connection point Function text Target designation Target designation Page / column +5V /8.9 /8.9 **GND** +5V 3 /8.10 GND /8.10 4 CEL 1 5 /8.11 CEL 2 /8.11 CEL 3 7 /8.12 CEL 4 /8.13 8 CEL 5 /8.13 CEL 6 10 /8.14 CEL 7 11 /8.14 CEL 8 12 /8.15 13 CEL 9 /8.15 **CEL 10** 14 /8.16 15 CEL 11 /8.17 CEL 12 16 /8.17 CEL 13 17 /8.18 CEL 14 18 /8.18 CEL 15 19 /8.19 CEL 16 20 /8.19 27 8-6-2018 VAARTLAAN 20 IDE180007 Drawingnumber + PLUG LET Luminoscope system AUTOMOTIVE EMAIL:INFO@LET.BE Connector strip connection diagram IDE180007 Appr Page LVC1050-APS-TM (Simplified)

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					Cable name	P		+A14	designa 1A2- APS-board	-PL23	cope system	Cable name		
					Cable type		Connection point	Plug designation	Jumper	Device connection point	Connection point	Cable type		
	tion text					Target designation		1			Target designation			Page / column
24V OLD			+			-1A2-PL23 -1A2-PL23	2	2				-		/4.12 /4.13
ND						·	-	3						/4.13
												_		
												_		
												-		
												+		
			+									$\dashv$		
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			+											
												-		



AA 3 -1A2-PL9 3 WH /2.4 RD /2.4					Cable name		Plug enco	⊦A14	designa -2B1- ovement L	PL9.		Cable name	W-A14-1A2-PL9/A14-2B1-PL9.1	
ND 1 -1A2-PL9 1 BK /2.3  AA 3 -1A2-PL9 3 WH /2.4  SV 4 -1A2-PL9 4 RD /2.4					Cable type		Connection point	Plug designation	Jumper	Device connection point		Cable type	LET 0MOT503570100 4x0.14	
2						l arget designation		1				_	DI/	
AA 3 -1A2-PL9 3 WH /2.4 5V 4 -1A2-PL9 4 RD /2.4	ND										-1AZ-PL9 1	-	BK	
	HA .										-1A2-PL9 3		WH	
18														
	HB							5			-1A2-PL9 5		BN	/2.5

Plug strip connection diagram Strip designation Cable name Cable name +A14-3B2-PL13.1 Plug encoder from Z-motormodule U/D movement Luminoscope system Device connection point Plug designation Connection point Cable type Target designation Function text Target designation Page / column BN N.C. -3B2 -1A2-PL13 /3.3 -3B2 2 -1A2-PL13 2 /3.3 +5V +5V PK GND -3B2 3 -1A2-PL13 3 /3.4 -1A2-PL13 ΥE -3B2 N.C. NC2 4 4 /3.4 5 -3B2 5 -1A2-PL13 GN /3.5 CHA-CHA-CHA+ -3B2 6 -1A2-PL13 6 BU /3.5 CHA+ CHB--3B2 7 -1A2-PL13 7 VT /3.5 CHB--1A2-PL13 GY /3.6 CHB+ -3B2 CHB+ 8 CH0--3B2 -1A2-PL13 9 WH /3.6 CH0--3B2 10 -1A2-PL13 /3.7 CH0+ CH0+ 31 8-6-2018 VAARTLAAN 20 Date IDE180007 Drawingnumber + PLUG LET AUTOMOTIVE
TEL:+32 (0)9 381 87 87 FAX:+32 (0)9 386 92 00 EMAIL:INFO@LET.BE Luminoscope system Connector strip connection diagram IDE180007 Appr LVC1050-APS-TM (Simplified) Page

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	Cable name	Plug motor a		A14-	designa 4M2-l dule U/D n	PL15	. 1 t Luminoscope system		Cable name	W-A14-1A2-PL15/A14-4M2-PL15.1	
	Cable type		Connection point	Plug designation	Jumper	Device connection point		Connection point	Cable type	ÖLFLEX® FD CLASSIC 810 5x0,75 mm²	
Function text		Target designation					Target designation				Page / column
OT- OT+				2			-1A2-PL15	1	-	1	/4.3 /4.5
AKE+				3			-1A2-PL15	3	1	3	/4.7
OT+				4			-1A2-PL15	2		2	/4.4
				5							/4.6
AKE-				6			-1A2-PL15	4		4	/4.8
									-		
									1		
									-		
	+										
								+			
	$\perp$								-		
									1		

Punction text:    Punction text										Cable name	Plug z		A14-2	designa 2SE6- L/R moven	PL10	.1 inoscope system		Cable name	W-A14-1A2-PL10/A14-2SE6-PL10.1		
24V 1 1 -1A2-PL10 1 BN /2.8 ND 3 -1A2-PL10 3 BU /2.9										Cable type		Connection point	Plug designation	Jumper	Device connection point		Connection point	Cable type			
ND 3 -1A2-PL10 3 BU /2.9			inction text								Target designation										
	·/\															IU7-L FIA			אט		12.0
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	$\neg$	I		Date I	8-6-2018		T1000	007				VAARTIAA	N 20	TERM					D	- ما دست	
Date 8-6-2018  IDE180007 Luminoscope system LVC1050-APS-TM (Simplified)  VAARTLAAN 20 B-9800 DEINZE TEL:+32 (0)9 381 87 87 FAX:+32 (0)9 386 92 00 EMAIL:INFO@LET.BE  TERM: Connector strip connection diagram  TERM: Connector strip connection diagram  TERM: Connector strip connection diagram	3				8-6-2018 LET	ID	E1800 Iminos	)07 scope system	m		L.E.T.	VAARTLAA B-9800 DE TEL:+32 (	N 20 INZE 0)9 381 87 87	TERM: Conne	ctor strip	connection diagram					+ PLUG

									Cable name	Plug from		CLIE	designa	5101	. 1 nzhen or the end-user		Cable name	W-A12-XS101/CLIENT-XS101.1		
									Cable type		Connection point	Plug designation	Jumper	Device connection point		Connection point	Cable type	UNITRONIC® FD CP plus 5x0,34		
		unction text								Target designation					Target designation			4		Page / column
_	C.								<u> </u>			1			+A12-XS101	2		RN		/1.5
	D D								<del> </del>			3			+A12-XS101 +A12-XS101	3	-	BN YE		/1.6 /1.6
=	· <del>-</del>											4					-			/1.6
N.C												5			+A12-XS101	5		GN		/1.7
GN												6								/1.7
N.C	C											7								/1.8
=								1	<u> </u>			8 9								/1.8 /1.8
_												9								/1.0
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_	<u>L</u> _	<u> </u>	Date	8-6-2018	1	IDE1800	007				VAARTLAA	N 20	TERM					Drawingn	umber	- DILIC
			Ed.	LET	i	Luminos	cope syste D-APS-TM (	m		L.E.T.	B-9800 DE TEL:+32 (	INZE 0)9 381 87 87	Conne	ctor strip	connection diagram				180007	+ PLUG
		1	Appr	I	- 11	I V/C1050	LADC_TM /	Cimplif	iod)		FAX:+32 ()	D9 386 92 00						1		

				Cable name W-A12-XS105/CLIENT-XS105.1	Plug fro	Strip designation +CLIENT-XS105.1 om VGA-port LCD-screen supllied by Shenzhen or the end-user								
Funct	tion text			Cable type  LET.KABAS VGA-10,0-MM  10x0.25 mm²	Target designation	Connection point	Plug designation	Jumper	Device connection point	Target designation	Connection point	Cable type		Page / column
RED				RD	+A12-XS105;-XS105.1	1	1			, a. get dec.g. acte.				/1.13
GREEN				<del>0</del> 2₹5	+A12-XS105;-XS105.1	2	2					<del>                                     </del>		/1.13
BLUE				<del>92</del> 5	+A12-XS105;-XS105.1	3	3					<del>                                     </del>		/1.15
RESERVED				<del>0:375</del>	+A12-XS105,-AS103.1	4	4		+ +			<del> </del>		/1.16
GND HSYNC				<del>G</del> 14	+A12-XS105 +A12-XS105	5	5		+ +			<del> </del>		/1.16
RED GND				0.14	-XS105.1	1	6		+ +			<del>                                     </del>		/1.14
GREEN GND					-XS105.1	2	7					┤		/1.15
BLUE GND					-XS105.1	3	8					┨		/1.15
					-V2102'1	3	+ +					<del> </del>		
N.C.				WH	LA12 VC10F	10	9		+ +			┤		/1.17
= TD0				<del>981∕4</del>	+A12-XS105	10	10							/1.17
ID0				<del>B</del> M	+A12-XS105	11	11							/1.17
SDA				9 <del>11</del>	+A12-XS105	12	12							/1.18
H_SYNC				0 <sub>v1</sub> 4	+A12-XS105	13	13							/1.18
V_SYNC N.C.				0.14	+A12-XS105	14	14					┨		/1.18 /1.19
							15							
												-		
												-		
							1					ı	+ + +	

## Cable overview

Cable name	Source (from)	Target (to)	Cable type	Number of conductors	Conductors used	Cross-section [mm <sup>2</sup> ]	Function text	Graphical page of cable diagram
W-A12-XS105/CLIENT-XS105.1	+A12-XS105	+CLIENT-XS105.1	LET.KABAS VGA-10,0-MM	10	10	0.25	Cable VGA output optical unit LVC1050 -> LCD screen supplied by Shenzhen or the end-user	+CABLE/2
W-A14-1A2	+A14-1A2-PL1	+A14-5SL6	UNITRONIC® FD CP plus	25	16	0,25	Cable wiring I/O signals from pushbuttons controlbox APS-board Luminoscope unit	+CABLE/3
	+A14-1A2-PL17	+A14-5SN4						
	+A14-1A2-PL19	+A14-6S12						
		+A14-6SL14						
		+A14-6S15						
		+A14-6S16						
		+A14-6S17						
W-CLIENT/A1-XL0	+A1-XL0	L	ÖLFLEX® CLASSIC 100	3	3	1,5	220Vac power input compact power supply box Luminoscope system from power net client	+CABLE/4
		N						
		PE						
W-A0-XS0/A14-1A2-PL5	+A1-XS0	+A14-1A2-PL5	ÖLFLEX® FD CLASSIC 810	5	3	1,5	Cable 24Vdc compact power supply box -> APS controller board Luminoscope unit	+CABLE/5
W-A12-XS101/CLIENT-XS101.1	+A12-XS101	+CLIENT-XS101.1	UNITRONIC® FD CP plus	5	3	0,34	Cable RS232 interface optical unit LVC1050 <-> Hostcomputer supplied by Shenzhen or the end-user	+CABLE/6
W-A12-XS102/A14-1A2-PL7	+A12-XS102	+A14-1A2-PL7	KABUT 4P-PLATTEKABEL-RJ10	4	4	0,14	Cable canbus input APS-board from optical unit LVC1050 Luminoscope unit	+CABLE/7
W-A14-1A2-PL4/A12-XS100	+A12-XS100	+A14-1A2-PL4	ÖLFLEX® FD CLASSIC 810	2	2	0,75	Cable 24Vdc APS controller board -> optical unit LVC1050 Luminoscope unit	+CABLE/8
W-A14-1A2-PL8	+A14-1A2-PL8	+A14-RCAN	KABUT 4P-PLATTEKABEL-RJ10	4	2	0.14	Cable canbus RJ10 canbus resistor APS board Luminoscope unit	+CABLE/9
W-A14-1A2-PL9/A14-2B1-PL9.1	+A14-1A2-PL9	+A14-2B1-PL9.1	LET 0MOT503570100	4	4	0.14	Cable encoder L/R movement -> APS controller board Luminoscope unit	+CABLE/10
W-A14-1A2-PL10/A14-2SE6-PL10.1	+A14-1A2-PL10	+A14-2SE6-PL10.1	RKT 4-07/2M	4	3	0,34	Cable zero proximity switch L/R movement -> APS controller board Luminoscope unit	+CABLE/11
W-A14-1A2-PL11/A14-2SD10	+A14-1A2-PL11	+A14-2SD10-S1	UNITRONIC® LIYY	4	2	0,34	Cable limit switch L/R movement -> APS controller board Luminoscope unit	+CABLE/12
W-A14-1A2-PL13/A14-3B2-PL13.1	+A14-1A2-PL13	+A14-3B2-PL13.1	UNITRONIC® FD CP plus	10	10	0,14	Cable encoder U/D movement -> APS controller board Luminoscope unit	+CABLE/13
W-A14-1A2-PL14/A14-3H16	+A14-1A2-PL14	+A14-3H16-X1	UNITRONIC® FD CP plus	5	5	0,25	Cable signaltower -> APS controller board Luminoscope unit	+CABLE/13
W-A14-1A2-PL14/A14-3SD10	+A14-1A2-PL14	+A14-3SD10-S1	UNITRONIC® LIYY	4	2	0,25	Cable upper limit switch U/D movement -> APS controller board Luminoscope unit	+CABLE/15
W-A14-1A2-PL14/A14-3SD14	+A14-1A2-PL14	+A14-3SD14-S1	UNITRONIC® LIYY	4	2	0,25	Cable lower limit switch U/D movement -> APS controller board Luminoscope unit	+CABLE/16
W-A14-1A2-PL14/A14-3SE8	+A14-1A2-PL14	+A14-3SE8-S1	BI5-Q08-VP6X2	4	3	0,25	Cable zero proximity switch U/D movement -> APS controller board Luminoscope unit	
W-A14-1A2-PL15/A14-4M2-PL15.1	+A14-1A2-PL15	+A14-4M2-PL15.1	ÖLFLEX® FD CLASSIC 810	5	4	0,75	Cable motor & brake U/D movement -> APS controller board Luminoscope unit	+CABLE/17
W-A14-1A2-FL13/A14-4M2-FL13.1	TAIT-IAZ-FLIS	+A14-41/12-FL15.1	OLI LLAS I D CLASSIC 610	3	<u> </u>	0,73	Cable Hotol & brake 6/D Hovement >> Ar3 Controller board Edithinoscope unit	+CABLE/18

+PLUG/34					
			Date	8-6-2018	IDE180007
			Ed.	LET	Luminoscope system
			Appr		LVC1050-APS-TM (Simplified
Modification	Date	Name	Original		



CAB: Cable summary Drawingnumber IDE180007

+ CABLE

Page Total

Cable diagram Cable name Cable type No. of conductors Cross-section Cable length Function text W-A12-XS105/CLIENT-XS105.1 LET.KABAS VGA-10,0-MM 10 10 0.25 mm<sup>2</sup> Cable VGA output optical unit LVC1050 -> LCD screen supplied by Shenzhen or the end-user Connection Connection Function text X-Ref Target designation from Conductor Target designation to X-Ref Function text point RED +A12-XS105 RD 0.25 +CLIENT-XS105.1 +CLIENT/1.13 RED +A12/2.8 2 **GREEN** +A12/2.9 +A12-XS105 GN 0.25 +CLIENT-XS105.1 +CLIENT/1.14 **GREEN** BU 0.25 BLUE +A12/2.10 +A12-XS105 3 +CLIENT-XS105.1 3 +CLIENT/1.15 BLUE GN 0.14 +CLIENT-XS105.1 +CLIENT/1.16 RESERVED RESERVED +A12/2.11 +A12-XS105 4 +A12-XS105 5 BU 0.14 +CLIENT-XS105.1 5 +CLIENT/1.16 +A12/2.11 **GND HSYNC GND HSYNC** +A12-XS105 10 WH 0.14 +CLIENT-XS105.1 +CLIENT/1.17 N.C. **GND VSYNC** +A12/2.12 10 BK 0.14 +A12/2.12 +A12-XS105 11 +CLIENT-XS105.1 11 +CLIENT/1.17 ID0 ID0 SDA +A12/2.13 +A12-XS105 12 BN 0.14 +CLIENT-XS105.1 12 +CLIENT/1.18 SDA H\_SYNC +A12-XS105 13 RD 0.14 13 +CLIENT/1.18 H\_SYNC +A12/2.13 +CLIENT-XS105.1 V\_SYNC +A12-XS105 VI 0.14 +A12/2.13 14 +CLIENT-XS105.1 14 +CLIENT/1.18 V\_SYNC SH 8-6-2018 Date IDE180007 Drawingnumber + CABLE Ed. LET Luminoscope system TEL:+32 (0)9 381 87 87 FAX:+32 (0)9 386 92 00 Cable interconnection diagram IDE180007 Appr LVC1050-APS-TM (Simplified) Page AUTOMOTIVE 93 Total Modification Date Name Original

Cable name	Cable type UNITRONIC® FD CP plus		No. of conduct			Function text  Cable wiring I/O signals from pushbuttons controlbox APS-board Luminoscope unit			
W-A14-1A2	UNITRO	T CP plus	25	0,	25 1111112		Cable Wi	iring I/O signais from pu	Isnbuttons controlbox APS-board Luminoscope unit
Function text	X-Ref	Target designation from	Connection point	Conductor	Targe	t designation to	Connection point	X-Ref	Function text
MOVE BUTTON	+A14/6.12	+A14-1A2-PL17	4	WH	+A14-6S12	-A14-6S12		+A14/6.12	MOVE BUTTON
	+A14/5.3	+A14-1A2-PL1	8	BN	+A14-5SN	1	11	+A14/5.3	
START1	+A14/5.7	+A14-1A2-PL1	4	GN	+A14-5SL6	;	13	+A14/5.7	START1
+24V	+A14/5.6	+A14-1A2-PL1	5	YE	+A14-5SL6	<b>)</b>	14	+A14/5.7	=
GND	+A14/5.8	+A14-1A2-PL1	1	GY	+A14-5SL6	<b>;</b>	24	+A14/5.8	START2
+24V	+A14/5.5	+A14-1A2-PL1	6	PK	+A14-5SN4	1	24	+A14/5.4	EMERG. STOP2
LED START	+A14/5.7	+A14-1A2-PL1	3	BU	+A14-5SL6	j	X1	+A14/5.7	LED START
EMERG. STOP2	+A14/5.4	+A14-1A2-PL1	7	RD	+A14-5SN4	1	23	+A14/5.4	EMERG. STOP2
REAIM BUTTON	+A14/6.13	+A14-1A2-PL17	5	BK	+A14-6SL1	.4	13	+A14/6.13	REAIM BUTTON
START2	+A14/5.8	+A14-1A2-PL1	2	VT	+A14-5SL6	j	23	+A14/5.8	START2
				GYPK					
+24V	+A14/6.18	+A14-1A2-PL17	10	RDBU	+A14-6S17	7	14	+A14/6.17	AIM/AUDIT SWITCH
				WHGN					
VALIDATE BUTTON	+A14/6.15	+A14-1A2-PL17	7	BNGN	+A14-6S16	)	13	+A14/6.15	VALIDATE BUTTON
				WHYE					
REAIM LAMP	+A14/7.14	+A14-1A2-PL19	5	YEBN	+A14-6SL1	.4	X1	+A14/7.14	REAIM
				WHGY					
				GYBN					
GND	+A14/7.17	+A14-1A2-PL19	9	WHPK	+A14-6SL1	.4	X2	+A14/7.14	REAIM
				PKBN					
				WHBU					
AIM/AUDIT SWITCH	+A14/6.17	+A14-1A2-PL17	8	BNBU	+A14-6S17	7	13	+A14/6.17	AIM/AUDIT SWITCH
				WHRD					
ABORT BUTTON	+A14/6.14	+A14-1A2-PL17	6	BNRD	+A14-6S15	5	13	+A14/6.14	ABORT BUTTON
				WHBK					
				SH					

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Cable diagram Cable name Cable type No. of conductors Cross-section Cable length Function text W-CLIENT/A1-XL0 ÖLFLEX® CLASSIC 100 3 1,5 mm<sup>2</sup> 220Vac power input compact power supply box Luminoscope system from power net client Connection Connection Function text X-Ref Target designation from Conductor Target designation to X-Ref Function text point PE PE +A1/1.5 +A1-XL0 3PE **GNYE** +A1/1.5 220VAC/L BN +A1/1.3 +A1-XL0 +A1/1.3 BU 220VAC/N +A1/1.4+A1-XL0 +A1/1.4VAARTLAAN 20
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Cable diagram Cable name Cable type No. of conductors Cross-section Cable length Function text ÖLFLEX® FD CLASSIC 810 5 W-A0-XS0/A14-1A2-PL5 1,5 mm<sup>2</sup> Cable 24Vdc compact power supply box -> APS controller board Luminoscope unit Connection Connection Function text X-Ref Target designation from Conductor Target designation to X-Ref Function text point 24V 24VDC APS +A1/1.12 +A1-XS0 +A14-1A2-PL5 +A14/1.4 1 3 GND APS +A14-1A2-PL5 +A14/1.5 GND +A1/1.12 +A1-XS0 2 3 4 Ε 2 PE +A1/1.14 +A1-XS0 **GNYE** +A14-1A2-PL5 +A14/1.5 PE VAARTLAAN 20
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Cable diagram Cable name Cable type No. of conductors Cross-section Cable length Function text W-A12-XS101/CLIENT-XS101.1 UNITRONIC® FD CP plus 5 15 0,34 mm<sup>2</sup> Cable RS232 interface optical unit LVC1050 <-> Hostcomputer supplied by Shenzhen or the end-user Connection Connection Function text X-Ref Target designation from Conductor Target designation to X-Ref Function text point WH 2 +CLIENT/1.6 TXD +A12-XS101 BN +CLIENT-XS101.1 RXD +A12/1.8 GND GN 5 +CLIENT/1.7 +A12/1.10 +A12-XS101 +CLIENT-XS101.1 N.C. YΕ 3 TXD RXD +A12/1.9 +A12-XS101 3 +CLIENT-XS101.1 +CLIENT/1.6 GY SH VAARTLAAN 20
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Cable diagram Cable type Cable name No. of conductors Cross-section Cable length Function text KABUT 4P-PLATTEKABEL-RJ10 W-A12-XS102/A14-1A2-PL7 2,41 0,14 mm<sup>2</sup> Cable canbus input APS-board from optical unit LVC1050 Luminoscope unit Connection Connection Function text X-Ref Target designation from Conductor Target designation to X-Ref Function text point CAN\_V+ CAN\_V+ +A12/1.15 +A12-XS102 BK +A14-1A2-PL7 +A14/1.13 CAN\_H +A12/1.16 +A12-XS102 RD 2 +A14/1.13 CAN\_H +A14-1A2-PL7 CAN\_L +A12/1.16 3 CAN\_L +A12-XS102 3 GN +A14-1A2-PL7 +A14/1.13 CAN\_GND +A12/1.17 +A12-XS102 YΕ +A14/1.14 CAN\_GND +A14-1A2-PL7 8-6-2018 VAARTLAAN 20 Date IDE180007 Drawingnumber AUTOMOTIVE

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Cable diagram Cable name Cable type No. of conductors Cross-section Cable length Function text W-A14-1A2-PL4/A12-XS100 ÖLFLEX® FD CLASSIC 810 2 0,75 mm<sup>2</sup> 2,38 Cable 24Vdc APS controller board -> optical unit LVC1050 Luminoscope unit Connection Connection Target designation to Function text X-Ref Target designation from Conductor X-Ref Function text point 24V\_LVC 24V +A12/1.4 +A12-XS100 +A14-1A2-PL4 +A14/1.9 Α GND\_LVC 2 +A12/1.4 +A12-XS100 +A14-1A2-PL4 +A14/1.9 GND VAARTLAAN 20
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Cable diagram Cable name Cable type No. of conductors Cross-section Cable length Function text KABUT 4P-PLATTEKABEL-RJ10 W-A14-1A2-PL8 0.14 mm<sup>2</sup> 0,04 Cable canbus RJ10 canbus resistor APS board Luminoscope unit Connection Connection Function text X-Ref Target designation from Conductor Target designation to X-Ref Function text point BK CAN\_H RD +A14/1.17 CAN\_H +A14/1.17 +A14-1A2-PL8 +A14-RCAN CAN\_L +A14/1.17 2 +A14/1.17 +A14-1A2-PL8 3 GN +A14-RCAN ΥE 10 VAARTLAAN 20
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Cable diagram Cable name Cable type No. of conductors Cross-section Cable length Function text LET 0MOT503570100 W-A14-1A2-PL9/A14-2B1-PL9.1 0.14 mm<sup>2</sup> 1,15 Cable encoder L/R movement -> APS controller board Luminoscope unit Connection Connection Function text X-Ref Target designation from Conductor Target designation to X-Ref Function text point GND GND +A14/2.3 +A14-1A2-PL9 BK +A14-2B1-PL9.1 +A14/2.3 1 CHA +A14/2.4 +A14-1A2-PL9 3 +A14/2.4 CHA 3 WH +A14-2B1-PL9.1 CHB BN 5 +A14/2.5 +A14/2.5 +A14-1A2-PL9 +A14-2B1-PL9.1 CHB RD +A14/2.4 +5V +5V +A14/2.4 +A14-1A2-PL9 +A14-2B1-PL9.1

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Cable diagram Cable type Cable length Cable name No. of conductors Cross-section Function text W-A14-1A2-PL10/A14-2SE6-PL10.1 RKT 4-07/2M 0,34 mm<sup>2</sup> 1,36 Cable zero proximity switch L/R movement -> APS controller board Luminoscope unit

Function text	X-Ref	Target designation from	Connection point	Conductor	Target designation to	Connection point	X-Ref	Function text
+24V	+A14/2.8	+A14-1A2-PL10	1	BN	+A14-2SE6-PL10.1	1	+A14/2.8	+24V
				WH				
GND	+A14/2.9	+A14-1A2-PL10	3	BU	+A14-2SE6-PL10.1	3	+A14/2.9	GND
ZERO	+A14/2.8	+A14-1A2-PL10	2	BK	+A14-2SE6-PL10.1	4	+A14/2.8	ZERO

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Cable diagram Cable name Cable type No. of conductors Cross-section Cable length Function text UNITRONIC® Liyy W-A14-1A2-PL11/A14-2SD10 0,34 mm<sup>2</sup> 1,26 Cable limit switch L/R movement -> APS controller board Luminoscope unit Connection Connection Function text X-Ref Target designation from Conductor Target designation to X-Ref Function text point WH С +A14/2.11 +24V +A14/2.11 BN +A14-2SD10-S1 +24V +A14-1A2-PL11 GN LIMIT 0 2 ΥE NC +A14/2.11 +24V +A14/2.12 +A14-1A2-PL11 +A14-2SD10-S1 13 VAARTLAAN 20
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Cable diagram

Cable name W-A14-1A2-PL13/A14-3B2-PL13.1		Cable type ONIC® FD CP plus	No. of conducto		s-section Cable length 4 mm <sup>2</sup> 0,56	Cal		Function text ent -> APS controller board Luminoscope unit
Function text	X-Ref	Target designation from	Connection	Conductor	Target designation to	Connection	X-Ref	Function text
CH0-	+A14/3.6	+A14-1A2-PL13	+	WH	+A14-3B2-PL13.1	9	+A14/3.6	CH0-
			9					
N.C.	+A14/3.3	+A14-1A2-PL13	1	BN	+A14-3B2-PL13.1	1	+A14/3.3	N.C.
CHA-	+A14/3.5	+A14-1A2-PL13	5	GN	+A14-3B2-PL13.1	5	+A14/3.5	CHA-
N.C.	+A14/3.4	+A14-1A2-PL13	4	YE	+A14-3B2-PL13.1	4	+A14/3.4	N.C.
CHB+	+A14/3.6	+A14-1A2-PL13	8	GY	+A14-3B2-PL13.1	8	+A14/3.6	CHB+
GND	+A14/3.4	+A14-1A2-PL13	3	PK	+A14-3B2-PL13.1	3	+A14/3.4	GND
CHA+	+A14/3.5	+A14-1A2-PL13	6	BU	+A14-3B2-PL13.1	6	+A14/3.5	CHA+
+5V	+A14/3.3	+A14-1A2-PL13	2	RD	+A14-3B2-PL13.1	2	+A14/3.3	+5V
CH0+	+A14/3.7	+A14-1A2-PL13	10	BK	+A14-3B2-PL13.1	10	+A14/3.7	CH0+
СНВ-	+A14/3.5	+A14-1A2-PL13	7	VT	+A14-3B2-PL13.1	7	+A14/3.5	СНВ-
				SH				

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Cable diagram

Cable name
W-A14-1A2-PL14/A14-3H16

V 1 2 3 4 5 6 7 8 9 11 12 13 14 15 16 17 18 19

Cable name
W-A14-1A2-PL14/A14-3H16

V 1 2 3 4 5 6 7 8 9 11 12 13 14 15 16 17 18 19

Cable name
V 2 3 4 5 6 7 8 9 11 12 13 14 15 16 17 18 19

Cable name W-A14-1A2-PL14/A14-3H16	UNIT	No. of conduct		ss-section 25 mm²	Cable length 0,7		Cable signaltower	Function text > APS controller board Luminoscope unit		
Function text	X-Ref	Target designation from	Connection point	Conductor	Targe	et designation to	Connection point	X-Ref	Function text	
GND	+A14/3.20	+A14-1A2-PL14	14	WH	+A14-3H1	6-X1	С	+A14/3.20	GND	
EM_ST LAMP	+A14/3.17	+A14-1A2-PL14	10	BN	+A14-3H1	6-X1	1	+A14/3.17	EM_ST LAMP	
SOUNDER	+A14/3.19	+A14-1A2-PL14	12	GN	+A14-3H1	6-X1	3	+A14/3.19	SOUNDER	
PARK LAMP	+A14/3.18	+A14-1A2-PL14	11	YE	+A14-3H1	6-X1	2	+A14/3.18	PARK LAMP	
SPARE LAMP	+A14/3.19	+A14-1A2-PL14	13	GY	+A14-3H1	6-X1	4	+A14/3.19	SPARE LAMP	
				SH						

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Cable diagram

Cable name W-A14-1A2-PL14/A14-3SD10		Cable type RONIC® LiYY	No. of conduct		ss-section 25 mm²	Cable length 1,16	Cable u	Function text  Cable upper limit switch U/D movement -> APS controller board Luminoscope unit		
Function text	X-Ref	Target designation from	Connection point	Conductor	Targe	Target designation to		X-Ref	Function text	
				WH						
+24V	+A14/3.12	+A14-1A2-PL14	4	BN	+A14-3SD	10-S1	С	+A14/3.12	+24V	
				GN						
LIM0	+A14/3.12	+A14-1A2-PL14	5	YE	+A14-3SD	10-S1	NC	+A14/3.12	+24V	

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Cable diagram Cable name Cable type No. of conductors Cross-section Cable length Function text UNITRONIC® Liyy 0,25 mm<sup>2</sup> 1,7 W-A14-1A2-PL14/A14-3SD14 Cable lower limit switch U/D movement -> APS controller board Luminoscope unit Connection Connection X-Ref Target designation from Conductor Function text Target designation to X-Ref Function text

Function text	X-Ref	Target designation from	point	Target designation to	point	X-Ref	Function text
			WH				
+24V	+A14/3.14	+A14-1A2-PL14	7 BN	+A14-3SD14-S1	С	+A14/3.14	+24V
			GN				
LIM1	+A14/3.15	+A14-1A2-PL14	8 YE	+A14-3SD14-S1	NC	+A14/3.14	+24V

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Cable diagram Cable length Cable name Cable type No. of conductors Cross-section Function text BI5-Q08-VP6X2 0,25 mm<sup>2</sup> W-A14-1A2-PL14/A14-3SE8 1,16 Cable zero proximity switch U/D movement -> APS controller board Luminoscope unit

W-A14-1A2-PL14/A14-3SE8	4-35E8   B15-Q08-VP6X2   4   0,25 mm <sup>2</sup>   1,16		1,10	1,16 Cable zero proximity switch U/D movement -> APS controller board Luminoscope unit					
Function text	X-Ref	Target designation from	Connection point Connection	onductor	Target	designation to	Connection point	X-Ref	Function text
+24V	+A14/3.9	+A14-1A2-PL14	1	BN	+A14-3SE8	-S1	1	+A14/3.9	+24V
GND	+A14/3.9	+A14-1A2-PL14	3	BU	+A14-3SE8	-S1	2	+A14/3.9	=
ZERO	+A14/3.9	+A14-1A2-PL14	2	BK	+A14-3SE8	-S1	3	+A14/3.9	=
				WH					

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Cable interconnection diagram

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# Cable diagram

Cable name W-A14-1A2-PL15/A14-4M2-PL15.1		Cable type ® FD CLASSIC 810	No. of conduc		ss-section 75 mm <sup>2</sup>	Cable length 0,46	Cable	Function text  Cable motor & brake U/D movement -> APS controller board Luminoscope unit		
Function text	X-Ref	Target designation from	Connection point	Conductor	Targo	Target designation to		X-Ref	Function text	
				GNYE						
мот-	+A14/4.3	+A14-1A2-PL15	1	1	+A14-4M2	2-PL15.1	1	+A14/4.3	MOT-	
MOT+	+A14/4.4	+A14-1A2-PL15	2	2	+A14-4M2	2-PL15.1	4	+A14/4.4	MOT+	
BRAKE+	+A14/4.7	+A14-1A2-PL15	3	3	+A14-4M2	2-PL15.1	3	+A14/4.7	BRAKE+	
BRAKE-	+A14/4.8	+A14-1A2-PL15	4	4	+A14-4M2	2-PL15.1	6	+A14/4.8	BRAKE-	
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0 1 2 3 4 5 6 7 8 9 11 12 13 14 15 16 17 18 19

## List bill of material

Device tag	Quantity	Designation	Type number	Supplier	Supplier-ordercode	LET-reference number
-A1	1	Compact enclosure, 300x200x155mm, RAL 7035, with mounting plate	AE 1035.500	Rittal	AE 1035.500	KAST RIT-1035500-AE
A1	3	End clamp for assembly on NS35/7,5 DIN rail	E/UK	Phoenix Contact	1201442	KLEM DIVERS-S-ES-NS35
A1	1	Terminal strip marker for strip marking, snap onto end bracket E/UK	KLM	Phoenix Contact	1004306	MARK KLE-KLM
A1	1	Brass cable gland PG11	NIP NIPP-P11.0-MS	LET	NIP NIPP-P11.0-MS	NIP NIPP-P11.0-MS
A1	1	Brass hex. fixation nut for cable gland PG11	NIP MOER-P11.0-MS	LET	NIP MOER-P11.0-MS	NIP MOER-P11.0-MS
-A1	1	CE-label 38x38mm	MARK STI-CE-38x38	LET	MARK STI-CE-38x38	MARK STI-CE-38x38
-A1	1	Identification label-warning hazardous voltage 5cm	MARK STI-ELECTRISCHE-SPANNING-5CM	LET	MARK STI-ELECTRISCHE-SPANNING-5CM	MARK STI-ELECTRISCHE-SPANNING-5CM
A1	1	Set of 4 wall mount brackets	KL 1580.000	Rittal	KL 1580.000	KAST RIT-1580000-KL
A1-1G8	1		QUINT-PS/ 1AC/24DC/10	PXC	2866763	VOED INB-230V-024VDC-240W
		QUINT POWER supply for DIN rail mounting with SFB 100-240 VAC/24 VDC/10A				
-A1-1H15	1	Base with LED 24Vdc, color : white	ZB4-BVB1	Schneider Electric	ZB4-BVB1	BEDEL TM -LAMPH-ZB4-BVB1
-A1-1H15	1	Head for white pilot light with LED 24Vdc, color : white	ZB4-BV013	SE	ZB4BV013	BEDEL TM -ONDER-ZB4-BV013
A1-1H15	1	Standard legend holder 30x40mm for 8x27mm legends	ZBZ-32	Schneider Electric	ZBZ-32	BEDEL TM -TOEBE-ZBZ-32
A1-1S3	1	On-Off switch, thumb-grip red, 2p, Ie=12A, FS 0-1, 90°, 48x48 mm, flush mounting	T0-1-102/E-RT	Eaton/Moeller	009046	HFSCH KM -TO-1-102/E-RT
A1-1S3	1	Carrier, +label, open main switch only in 0 position, EN, for T0, T3, P1	ZFS62-T0	Eaton/Moeller	205534	
A1-XL0	2	Feed-through terminal block, Spring-cage connection, 0.08-4 mm <sup>2</sup> , gray	ST 2,5	Phoenix Contact	3031212	KLEM ST-0.08-2.5-V
A1-XL0	4	Spring cage ground terminal block, 0.08-4 mm², green-yellow	ST 2,5-PE	Phoenix Contact	3031238	KLEM ST-0.08-2.5-V-AARDING
A1-XL0	1	End cover, Length: 48.6 mm, Width: 2.2 mm, Height: 29.1 mm, Color: gray	D-ST 2,5	Phoenix Contact	3030417	KLEM DIVERS EP-ST
A1-XL0	1	Terminal strip marker for strip marking, snap onto end bracket E/UK	KLM	Phoenix Contact	1004306	MARK KLE-KLM
A1-1XL8	1	Glas tube fuse 5x20mm, time-delay, 250Vac, 5A	ZEKER BUI-5A-T	LET	ZEKER BUI-5A-T	ZEKER BUI-5A-T
A1-1XL8	1	Spring-cage fuse terminal block for cartridge fuse inserts with screw cap, 0.5 - 6 mm <sup>2</sup> , black	ZFK 6-DREHSILA 250 (5X20)	Phoenix Contact	3025590	KLEM DIVERS ZFK6-DREHSILA250
-A1-1XL9	1	Glas tube fuse 5x20mm, time-delay, 250Vac, 5A	ZEKER BUI-5A-T	LET	ZEKER BUI-5A-T	ZEKER BUI-5A-T
A1-1XL9	1	Spring-cage fuse terminal block for cartridge fuse inserts with screw cap, 0.5 - 6 mm <sup>2</sup> , black	ZFK 6-DREHSILA 250 (5X20)	Phoenix Contact	3025590	KLEM DIVERS ZFK6-DREHSILA250
A1-XS0	1	Housing, bulkhead mounted housing with 1 lever	09 30 006 0301	Harting	09 30 006 0301	CONHA HOUS-06P-CLA-DOORVOER
A1-XS0	1	Female insert, Han 6 E; 6 poles + PE, screw terminals	09 33 006 2701	Harting	09 33 006 2701	CONHA E -06P-CBF-
A12	1	Complete assembled optical unit type LVC1060 (ACS200)-12 cells	EP 051018F00OPT/	LET	EP 051018F00OPT/	EP 051018F00OPT
A14-1A2	1	APS control board for APS control unit type PLM	HFPRI 090338C00KOL/	LET	HFPRI 090338C00KOL/	HFPRI 090338C00KOL/
-A14-2B1	1	Assembled encoder module L/R movement with encoder HEDS-5500-F06 type PLM	LET.HF 080153B00KOL/	LET	HF 080153B00KOL/	LET.HF 080153B00KOL/
			*		· · · · · · · · · · · · · · · · · · ·	,
A14-3H16	1	Signaling column element, base/plastic foot with pipe, plastic	XVB-Z02	Telemecanique	XVB-Z02	BEDEL TM -LICHT-XVB-Z02
-A14-3H16-H1	1	Signaling column element, steady light red 24VDC	XVB-C34	Telemecanique	XVB-C34	BEDEL TM -LICHT-XVB-C34
A14-3H16-H1	1	Incandescent 024,0V 006,0W BA15D	LAMP SI-024,0V-006,0W-BA15D	LET	LAMP SI-024,0V-006,0W-BA15D	LAMP SI-024,0V-006,0W-BA15D
A14-3H16-H2	1	Signaling column element, steady light green 24VDC	XVB-C33	Telemecanique	XVB-C33	BEDEL TM -LICHT-XVB-C33
-A14-3H16-H2	1	Incandescent 024,0V 006,0W BA15D	LAMP SI-024,0V-006,0W-BA15D	LET	LAMP SI-024,0V-006,0W-BA15D	LAMP SI-024,0V-006,0W-BA15D
-A14-3H16-H3	1	Signaling column element, buzzer module 90dB 24VDC	XVB-C9B	Telemecanique	XVB-C9B	BEDEL TM -LICHT-XVB-C9B
-A14-3H16-X1	1	Signaling column element, connection element with cover 24VDC	XVB-C21	Telemecanique	XVB-C21	BEDEL TM -LICHT-XVB-C21
-A14-2M14	1	Assembled motor module L/R movement with DC-motor GR53X30+PLG52-28,12:1 type PLM	HF 040166B00KOL/	LET	HF 040166B00KOL/	HF 040166B00KOL/
A14-4M2	1	Module DC-Motor with mounted brake & encoder up/down movement GR53X58	Dunker:GR53X58+E90R+RE30-2-500ti	LET	HF 090125_00KOL/	HF 090125_00KOL/
-A14-RCAN	1	Assembled RJ10-plug with CAN resistor 120E	HFKAB 030572_00DIV	LET	HFKAB 030572_00DIV	HFKAB 030572_00DIV
A14-6S12	1	Blue flush pushbutton head Ø22 spring return unmarked	ZB4-BA6	Schneider Electric	ZB4-BA6	BEDEL TM-ONDER-ZB4-BA6
A14-6S12	1	Contactholder+1NO contact block	ZB4-BZ101	Schneider Electric	ZB4-BZ101	BEDEL TM-DRKKN-ZB4-BZ101
A14-6S12	1	Legend holder 30x50mm for snapping on labels size 17x28mm	ZBZ-33	Schneider Electric	ZBZ-33	BEDEL TM-TOEBE-ZBZ-33
A14-6S15	1	Red flush pushbutton head Ø22 spring return unmarked	ZB4-BA4	Schneider Electric	ZB4-BA4	BEDEL TM-ONDER-ZB4-BA4
A14-6S15	1	Contactholder+1NO contact block	ZB4-BZ101	Schneider Electric	ZB4-BZ101	BEDEL TM-DRKKN-ZB4-BZ101
A14-6S15	1	Legend holder 30x50mm for snapping on labels size 17x28mm	ZBZ-33	Schneider Electric	ZBZ-33	BEDEL TM-TOEBE-ZBZ-33
A14-6S16	1	Black Ø40 mushroom pushbutton head Ø22 spring return	ZB4-BC2	Schneider Electric	ZB4-BC2	BEDEL TM-ONDER-ZB4-BC2
A14-6S16	1	Contactholder+1NO contact block	ZB4-BZ101	Schneider Electric	ZB4-BZ101	BEDEL TM-DRKKN-ZB4-BZ101
A14-6S16	1	Legend holder 30x50mm for snapping on labels size 17x28mm	ZBZ-33	Schneider Electric	ZBZ-33	BEDEL TM-TOEBE-ZBZ-33
14-6517	1	Black selector switch head Ø22 2-position stay put	ZB4-BD2	Schneider Electric	ZB4-BD2	BEDEL TM-ONDER-ZB4-BD2
A14-6S17	1	Contactholder+1NO contact block	ZB4-BZ101	Schneider Electric	ZB4-BZ101	BEDEL TM-DRKKN-ZB4-BZ101
A14-6S17	1	Legend holder 30x50mm for snapping on labels size 17x28mm	ZBZ-33	Schneider Electric	ZBZ-33	BEDEL TM-TOEBE-ZBZ-33
A14-2SD10	1	Overtravel switch NO/NC contact, cross roller plunger	Z-15GQ21-B	Omron	Z-15GQ21-B	MICSW OMR-VOL-Z-15GQ21-B
A14-2SD10	1	Cover for overtravel switch Omron	AP-Z	Omron	AP-Z	MICSW OMR-KAP-AP-Z
A14-2SD17	1	Overtravel switch NO/NC contact, cross roller plunger	Z-15GQ21-B	Omron	Z-15GQ21-B	MICSW OMR-VOL-Z-15GQ21-B
A14-2SD17	1	Cover for overtravel switch Omron	AP-Z	Omron	AP-Z	MICSW OMR-KAP-AP-Z
A14-3SD10	1	Miniature overtravel switch NO/NC contact, short hinge roller lever	V165-1C5	Omron	V165-1C5	MICSW OMR-VOL-V165-1C5
A14-3SD14	1	Miniature overtravel switch NO/NC contact, short hinge roller lever	V165-1C5	Omron	V165-1C5	MICSW OMR-VOL-V165-1C5
		Inductive sensor M18, switching distance 5mm, 10-30Vdc, M12 connector, NO, PNP,3-draads	BI5-M18-AP6X-H1141	Turck	46145	PXSCH TUR-I-M18-005MM-CBI8-M18-AP6X

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			Ed.	LET	Luminoscope system		B-9800 DEINZE TEL:+32 (0)9 381 87 87	List bill of material	IDE180007	+ BOM		
			Appr		11/C10F0 ADC TM (C: :G: )		EAX++32 (0)9 386 92 00		100180007		Page	1
Modification	Date	Name	Original		]	AUTOMOTIVE	EMAIL:INFO@LET.BE				Total	93

## List bill of material

		Designation	Type number	Supplier	Supplier-ordercode	LET-reference number
+A14-3SE8	1	Inductive rectangular proximty switch with cable 2m, 10-30Vdc, 4-wire, NO contact, PNP, operat	ing dista <b>titi-Spat</b> -VP6X2	Turck	16001	PXSCH-TUR-I-REC-005MM-KBI5-Q08-VP6X
+A14-5SL6	1	Green flush illuminated pushbutton head Ø22 spring return for integral LED	ZB4-BW333	Schneider Electric	ZB4BW333	BEDEL TM -ONDER-ZB4-BW333
+A14-5SL6	1	Green light block with body/fixing collar with integral LED 24V & 1NO+1NC contact block	ZB4-BW0B35	Schneider Electric	ZB4-BW0B35	BEDEL TM -DRKVE-ZB4-BW0B35
+A14-5SL6	1	Contact block 1NO contact	ZBE-101	Schneider Electric	ZBE-101	BEDEL TM-ONDER-ZBE-101
+A14-5SL6	1	Legend holder 30x50mm for snapping on labels size 17x28mm	ZBZ-33	Schneider Electric	ZBZ-33	BEDEL TM-TOEBE-ZBZ-33
+A14-6SL14	1	Red flush illuminated pushbutton head Ø22 spring return for integral LED	ZB4-BW343	Schneider Electric	ZB4BW343	BEDEL TM -ONDER-ZB4-BW343
+A14-6SL14	1	Red light block with body/fixing collar with integral LED 24V & 1NO+1NC contact block	ZB4-BW0B45	Schneider Electric	ZB4-BW0B45	BEDEL TM -DRKVE-ZB4-BW0B45
+A14-6SL14	1	Legend holder 30x50mm for snapping on labels size 17x28mm	ZBZ-33	Schneider Electric	ZBZ-33	BEDEL TM-TOEBE-ZBZ-33
+A14-5SN4	1	Red Ø40 Emergency stop,switching off head Ø22 trigger and latching turn release	ZB4-BS844	Schneider Electric	ZB4-BS844	BEDEL TM-ONDER-ZB4-BS844
+A14-5SN4	1	Contactholder+1NO contact block	ZB4-BZ101	Schneider Electric	ZB4-BZ101	BEDEL TM-DRKKN-ZB4-BZ101
+A14-5SN4	1	Contact block 1NC contact	ZBE-102	Schneider Electric	ZBE-102	BEDEL TM-ONDER-ZBE-102
+A14-5SN4	1	Marked legend Ø60 for emergency stop - EMERGENCY STOP/logo ISO13850	ZBY-9330	Telemecanique	ZBY-9330	BEDEL TM-TOEBE-ZBY-9330

Madification	Data	Name	Original		LVC1030-AP3-1M (Simplified)
			Appr		LVC1050-APS-TM (Simplified)
			Ed.	LET	Luminoscope system
			Date	8-6-2018	IDE180007



вом: List bill of material

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