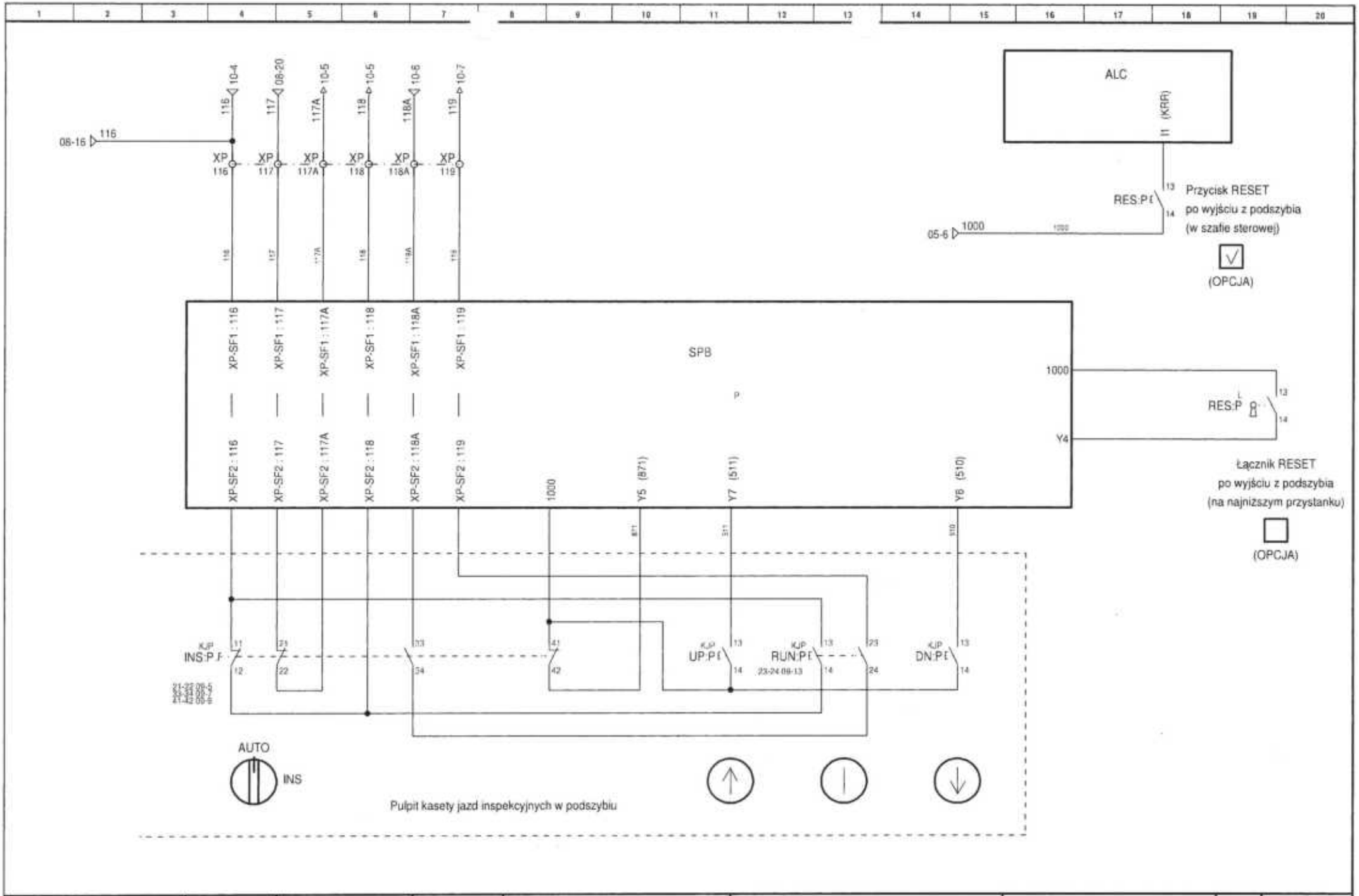
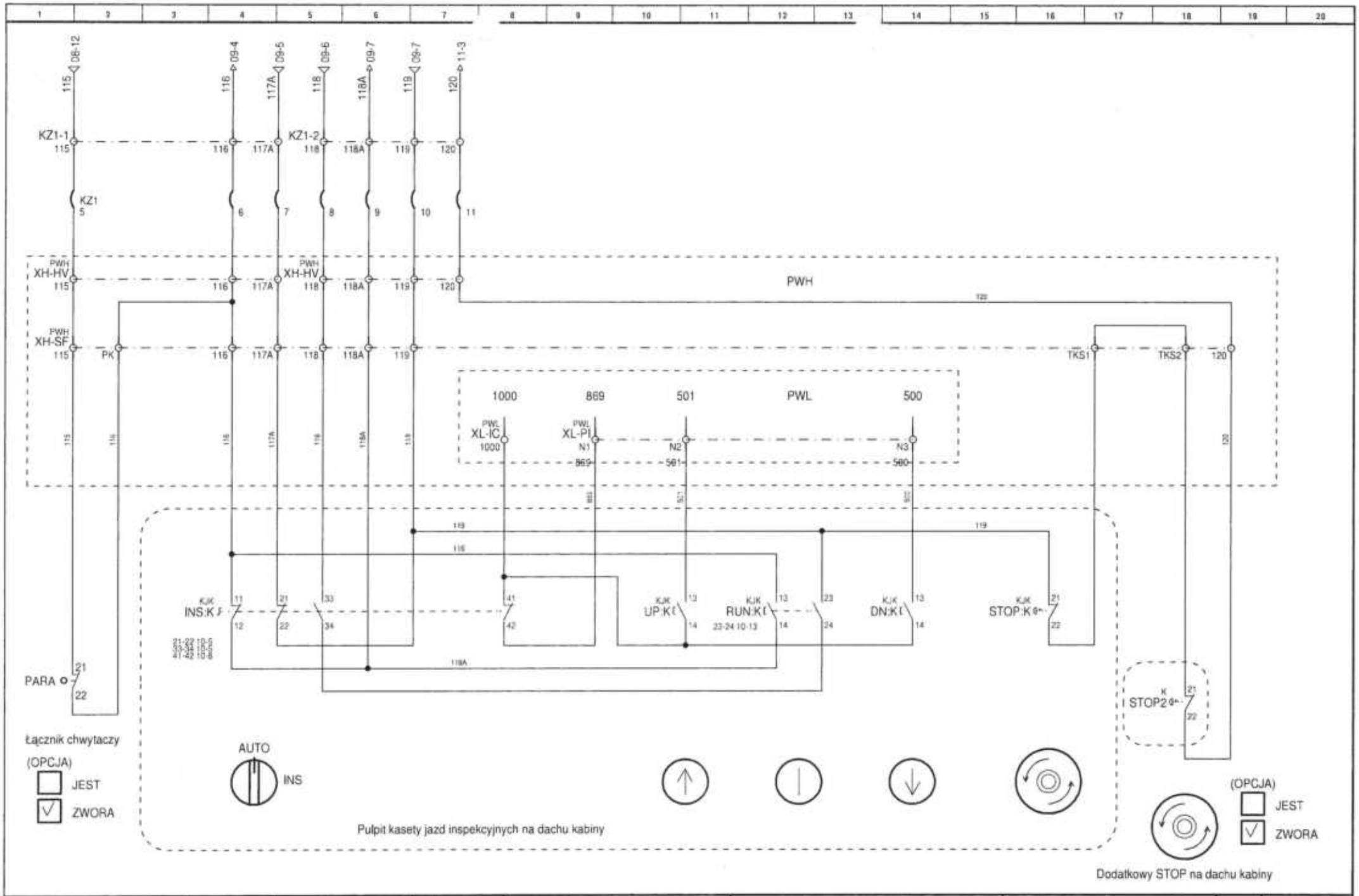
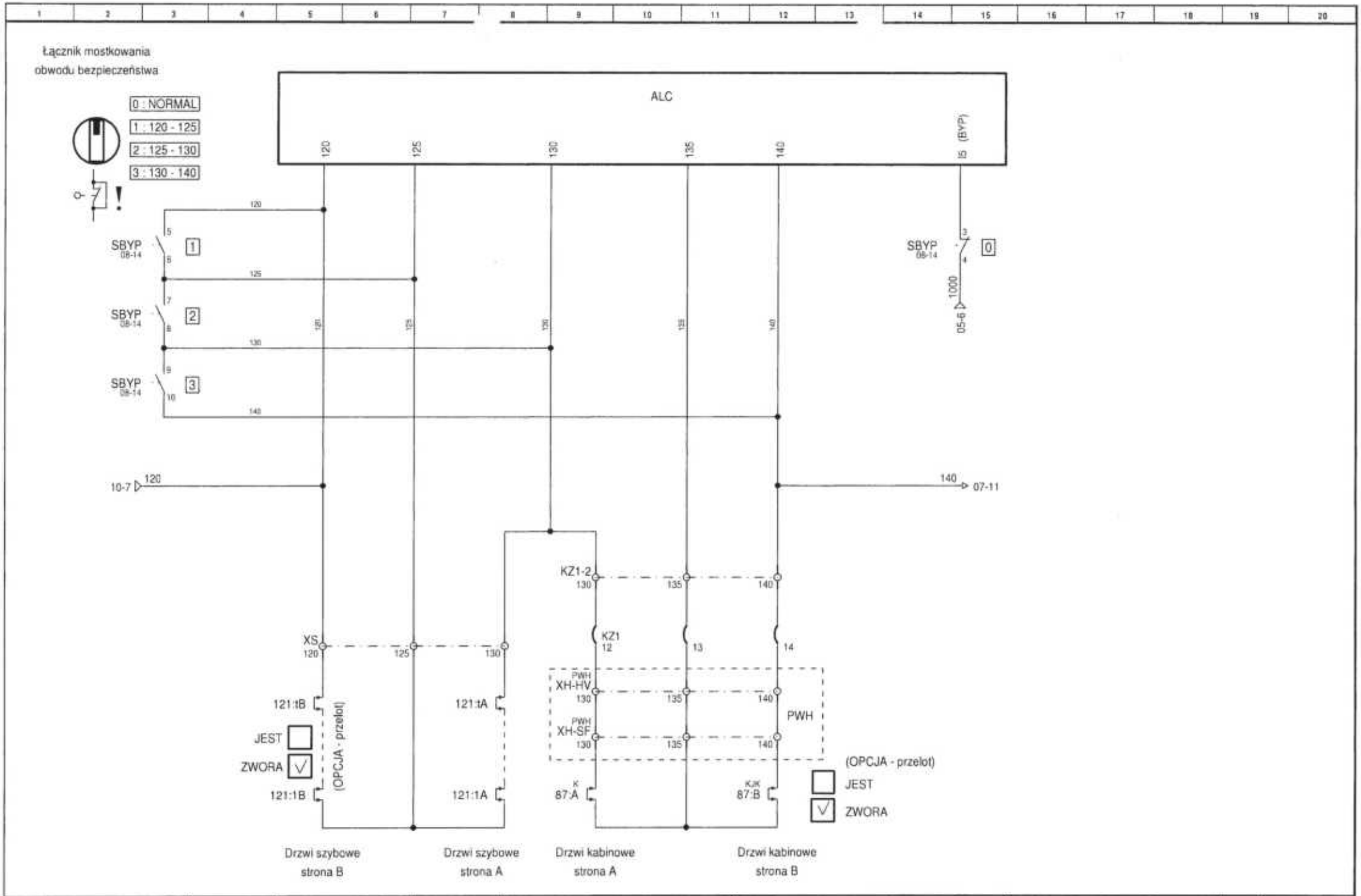


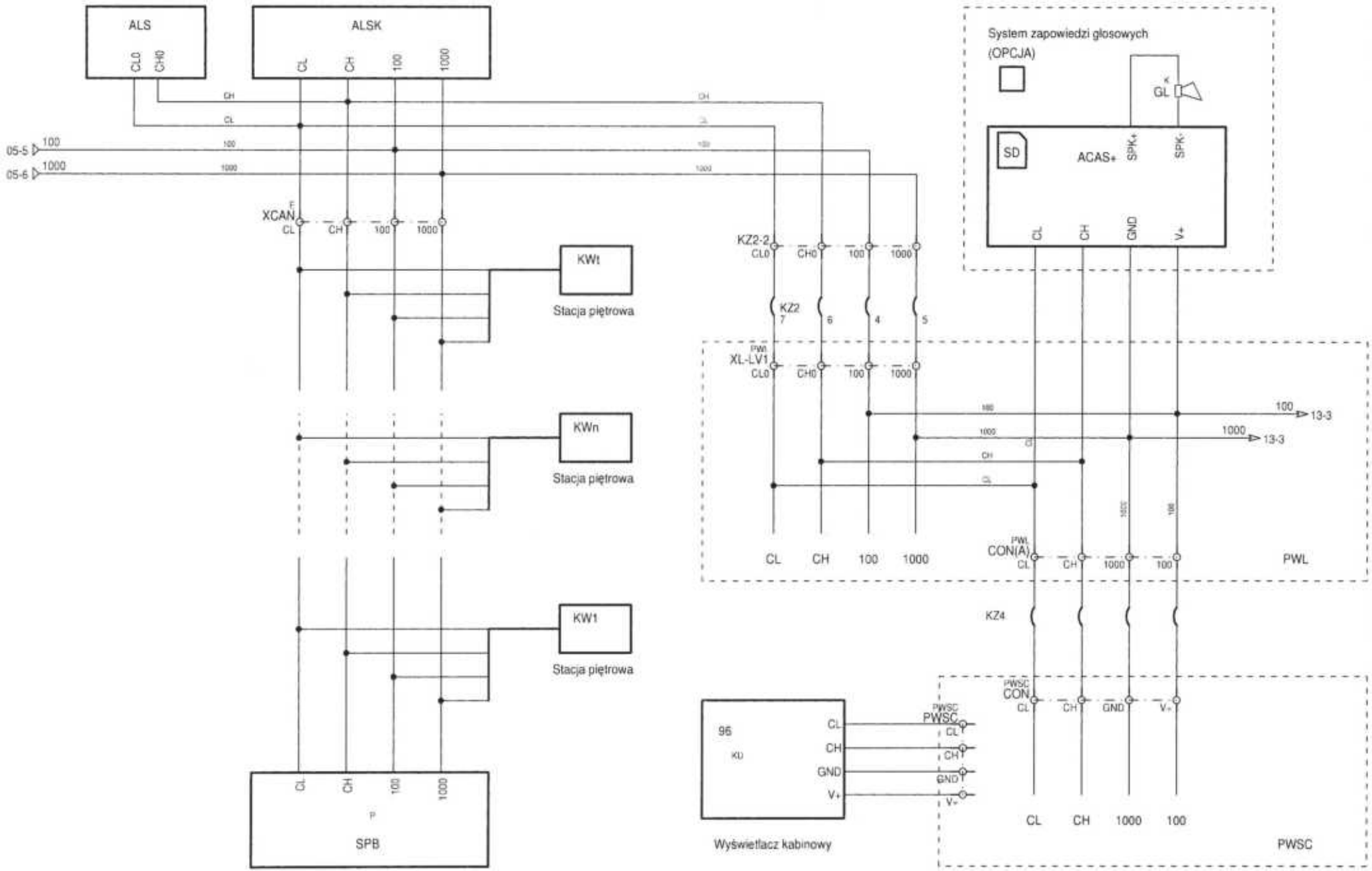
AUTIVOX Sp. z o.o. ul. Kolumba 43/47 02-288 Warszawa	PROJEKTOWAŁ	Siwiński	2017-11-07	AUTIVOX	Tytuł: Obwód bezpieczeństwa - cz.2	Nr schematu: ALC - 936D9	Ilość ark. 21
	PODPIS						ARKUSZ NR 09
		NAZWISKO	DATA				SEE V. 3.00



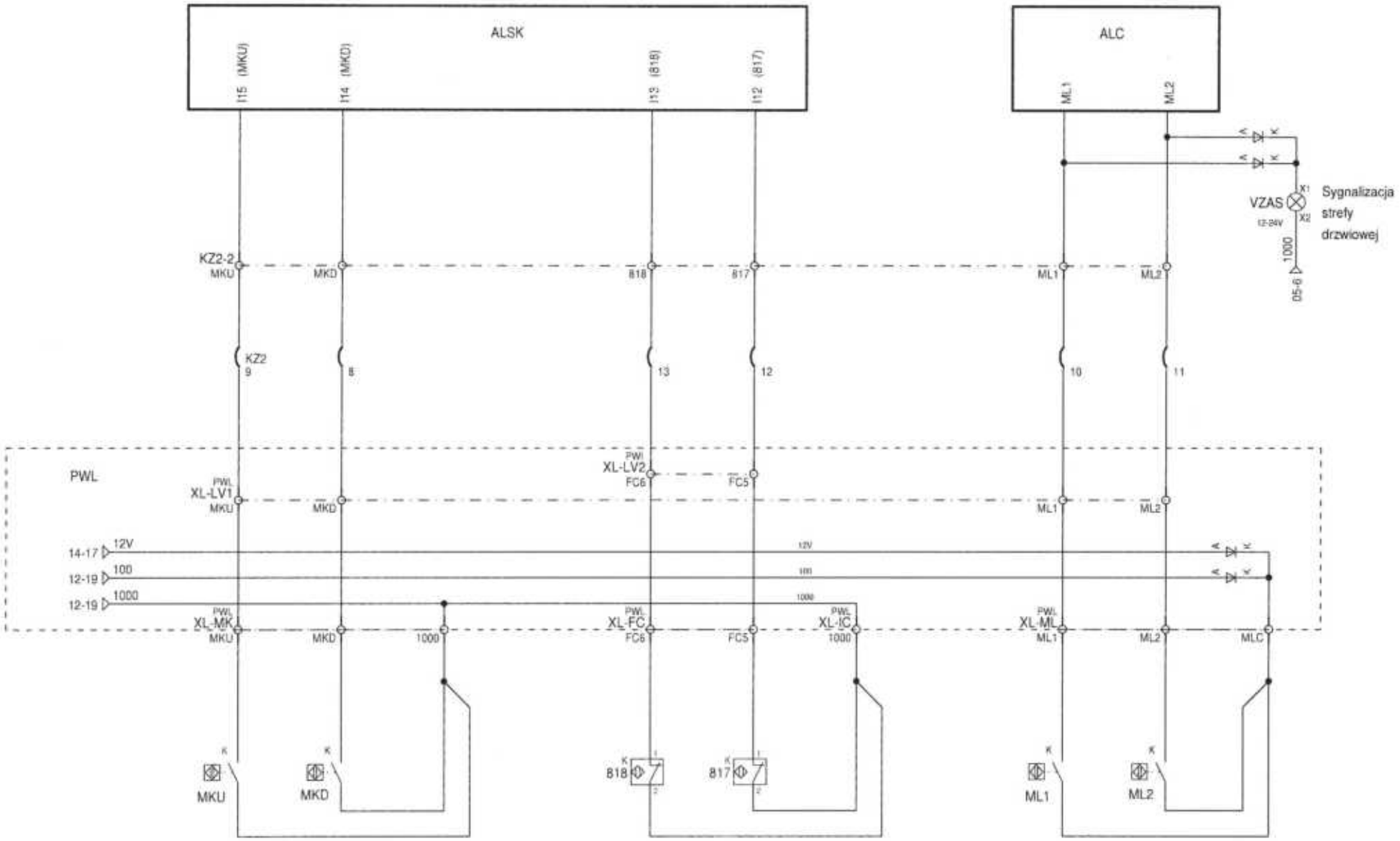
AUTIVOX Sp. z o.o. ul. Kolumba 43/47 02-288 Warszawa	PROJEKTOWAŁ	Sawicki	2017-11-07	AUTIVOX	Tytuł: Obwód bezpieczeństwa - cz.3	Nr schematu: ALC - 936D9	Ilość ark. 21 / ARKUSZ NR 10 (09 11)
	PODPIS						SEE V. 3.00
		NAZWISKO	DATA				



AUTIVOX Sp. z o.o. ul. Kolumba 43/47 02-288 Warszawa	PROJEKTOWAŁ	Sawicki	2017-08-10	AUTIVOX	Tytuł: Obwód bezpieczeństwa - mostkowanie	Nr schematu: ALC - 936D9	Ilość ark. 21
	PODPIS	Sawicki Dariusz					ARKUSZ NR 11
		NAZWISKO	DATA				SEE V. 3.00



AUTIVOX Sp. z o.o. ul. Kolumba 43/47 02-288 Warszawa	PROJEKTOWAŁ	Sawski	2017-11-08	AUTIVOX	Tytuł: Magistrala CAN	Nr schematu: ALC - 936D9	ilość ark. 21 / ARKUSZ NR 12 (11 13)
	PODPIS						SEE V. 3.00
		NAZWISKO	DATA				



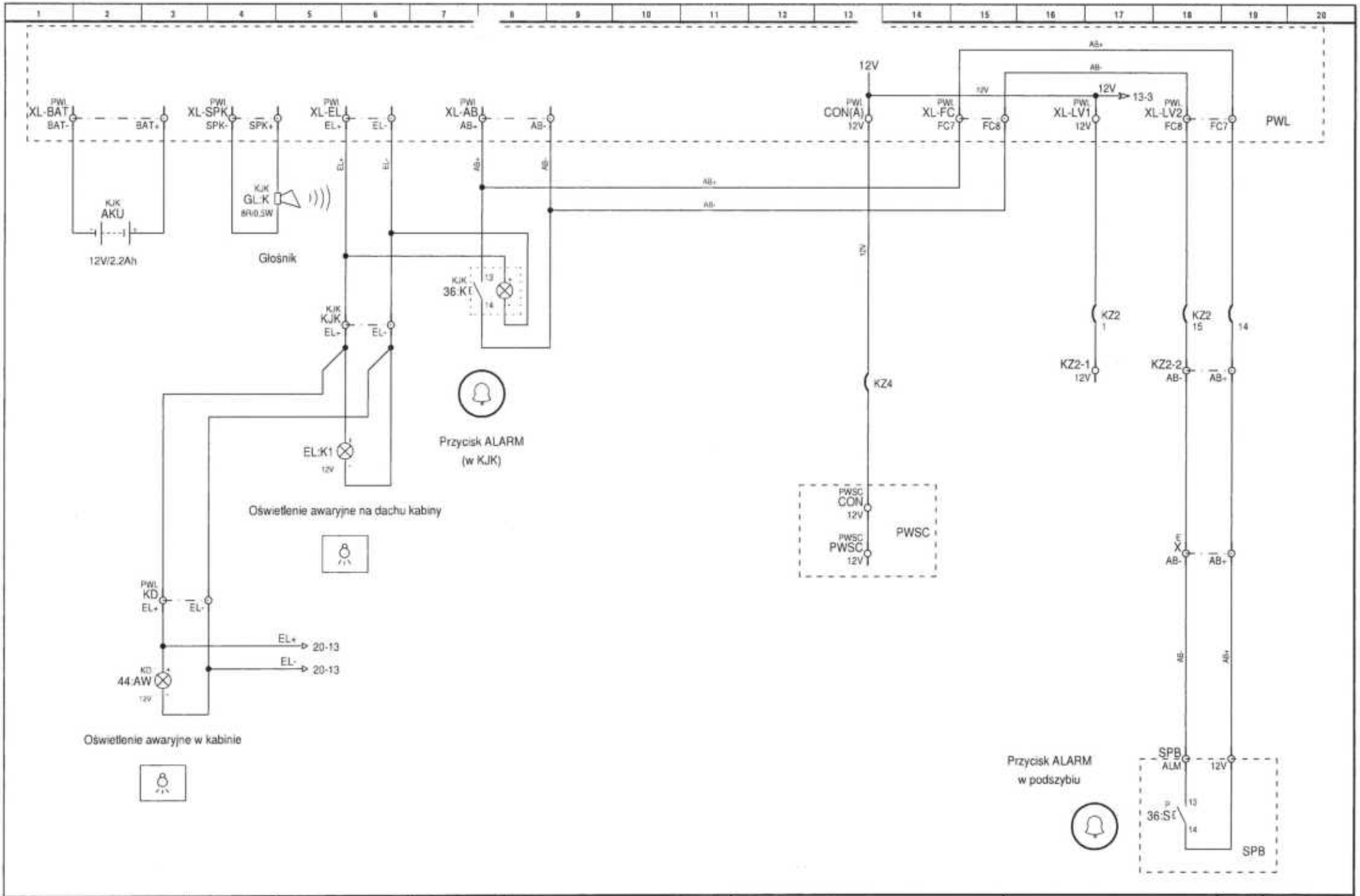
Czujniki magnetyczne odwzorowania położenia kabiny

Łącznik końcowy górny

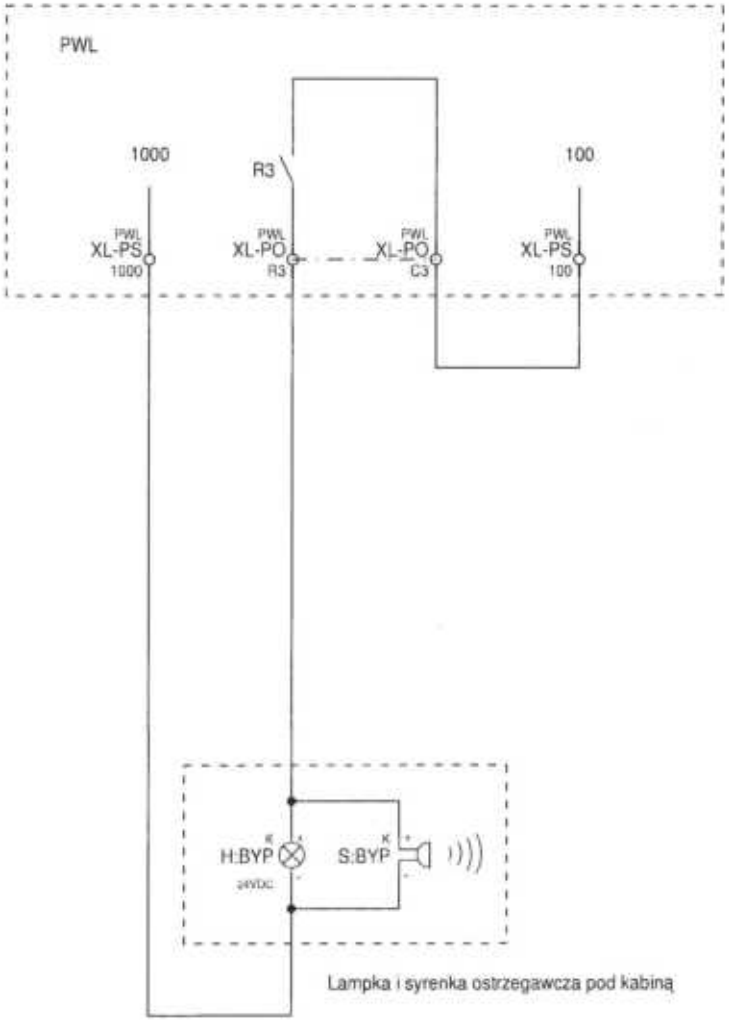
Łącznik końcowy dolny

Czujniki magnetyczne korekcji położenia

AUTIVOX Sp. z o.o. ul. Kolumba 43/47 02-288 Warszawa	PROJEKTOWAŁ	Sawski	2012-10-15	AUTIVOX	Tytuł: Odwzorowanie położenia kabiny	Nr schematu: ALC - 936D9	ilość ark. 21 / ARKUSZ NR 13
	PODPIS						12 14
		NAZWISKO	DATA				SEE V. 3.00

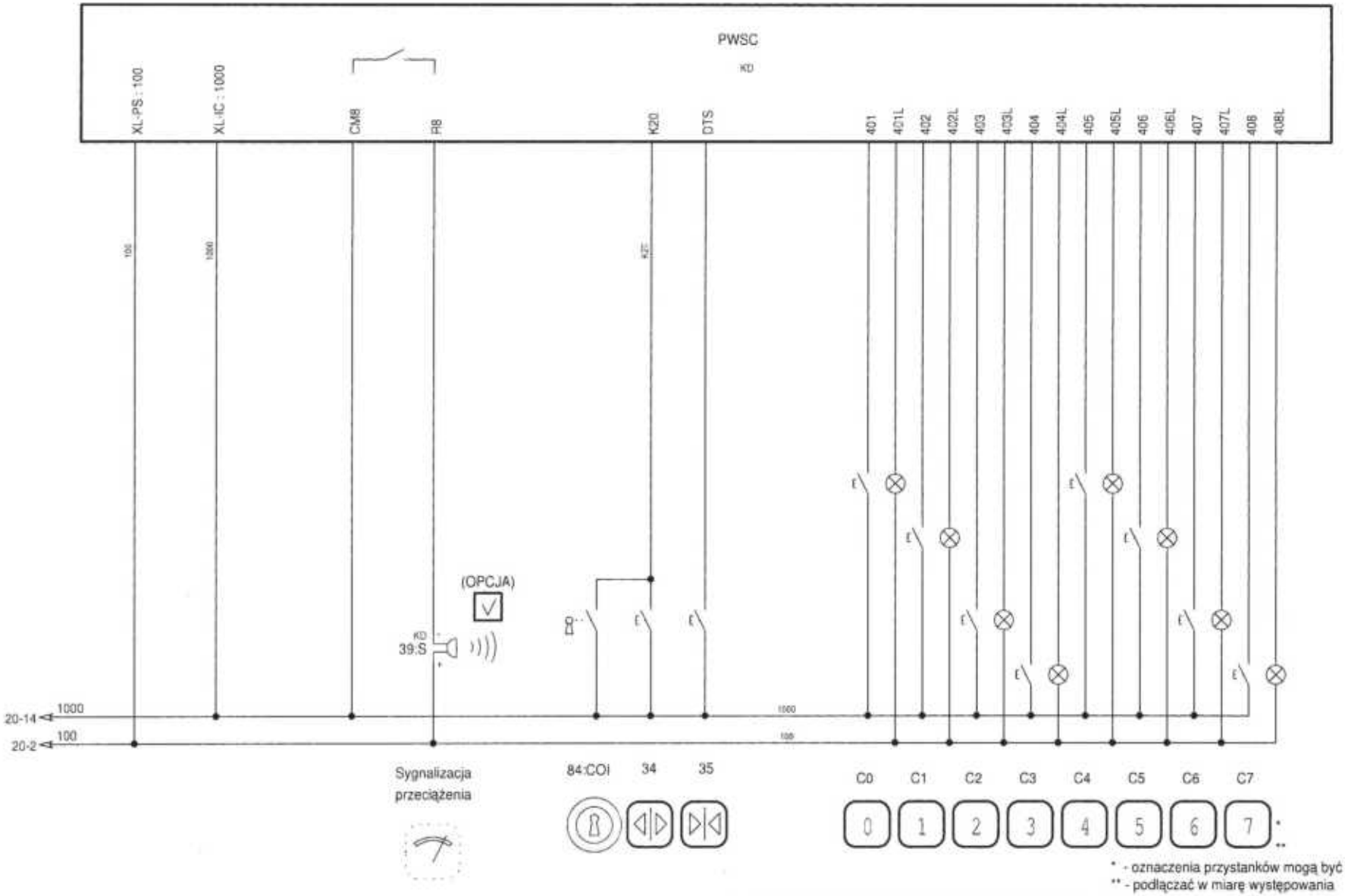


AUTIVOX Sp. z o.o. ul. Kolumba 43/47 02-288 Warszawa	PROJEKTOWAŁ	Świerski	2017-08-13	AUTIVOX	Tytuł: Obwody alarmowania	Nr schematu: ALC - 936D9	Ilość ark. 21 / ARKUSZ NR 14 / 13 15 / SEE V. 3.00
	PODPIS	Świerski					
		NAZWISKO	DATA				



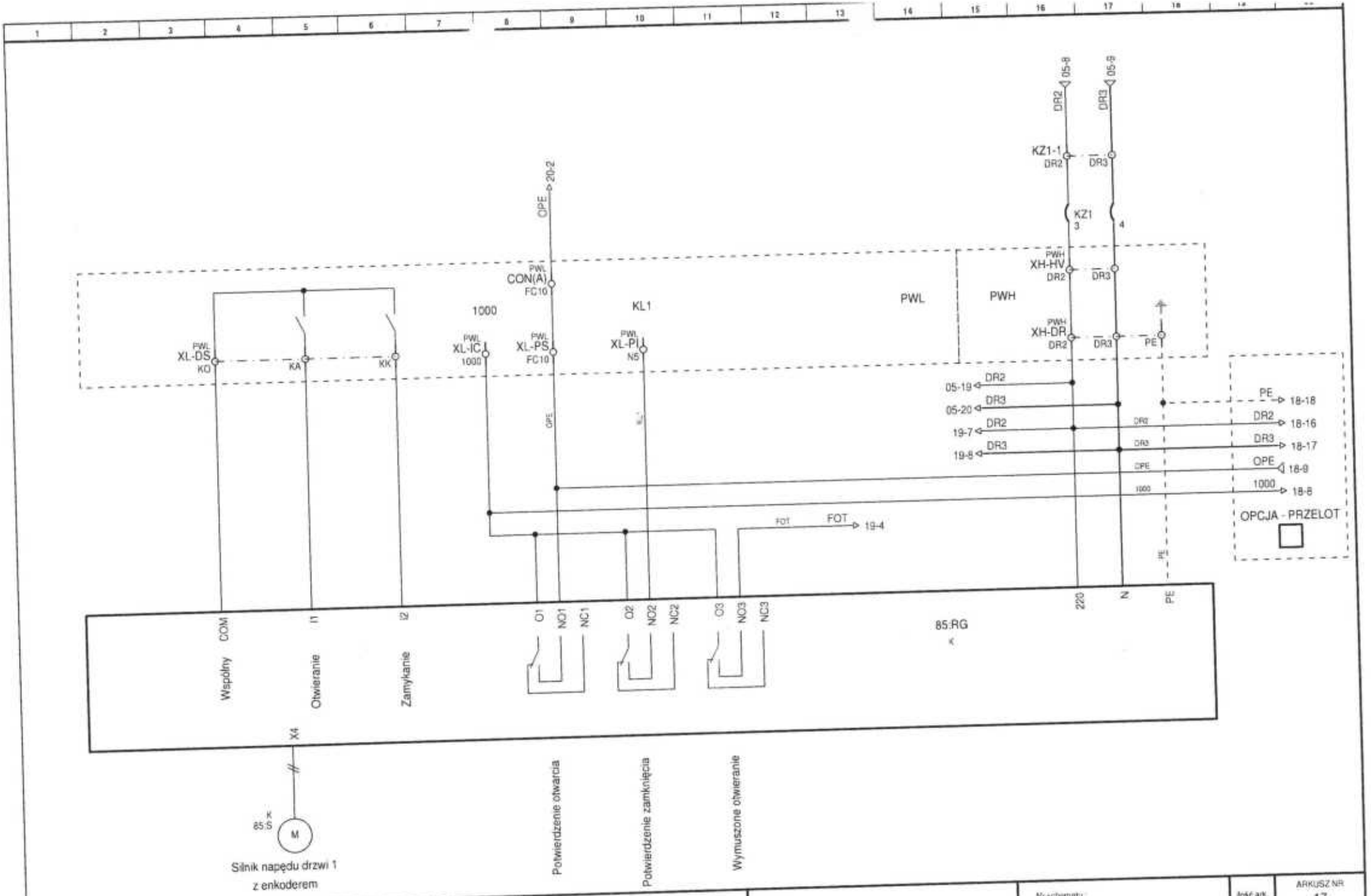
Lampka i syrenka ostrzegawcza pod kabiną

AUTIVOX Sp. z o.o. ul. Kolumba 43/47 02-288 Warszawa	PROJEKTOWAŁ	Sawski	2017-09-13	AUTIVOX	Tytuł: Sygnalizacja w jadach inspekcyjnych	Nr schematu: ALC - 936D9	Ilość ark. 21
	PODPIS	Sawski					ARKUSZ NR 15 (14 / 16)
		NAZWISKO	DATA				SEE V. 3.00

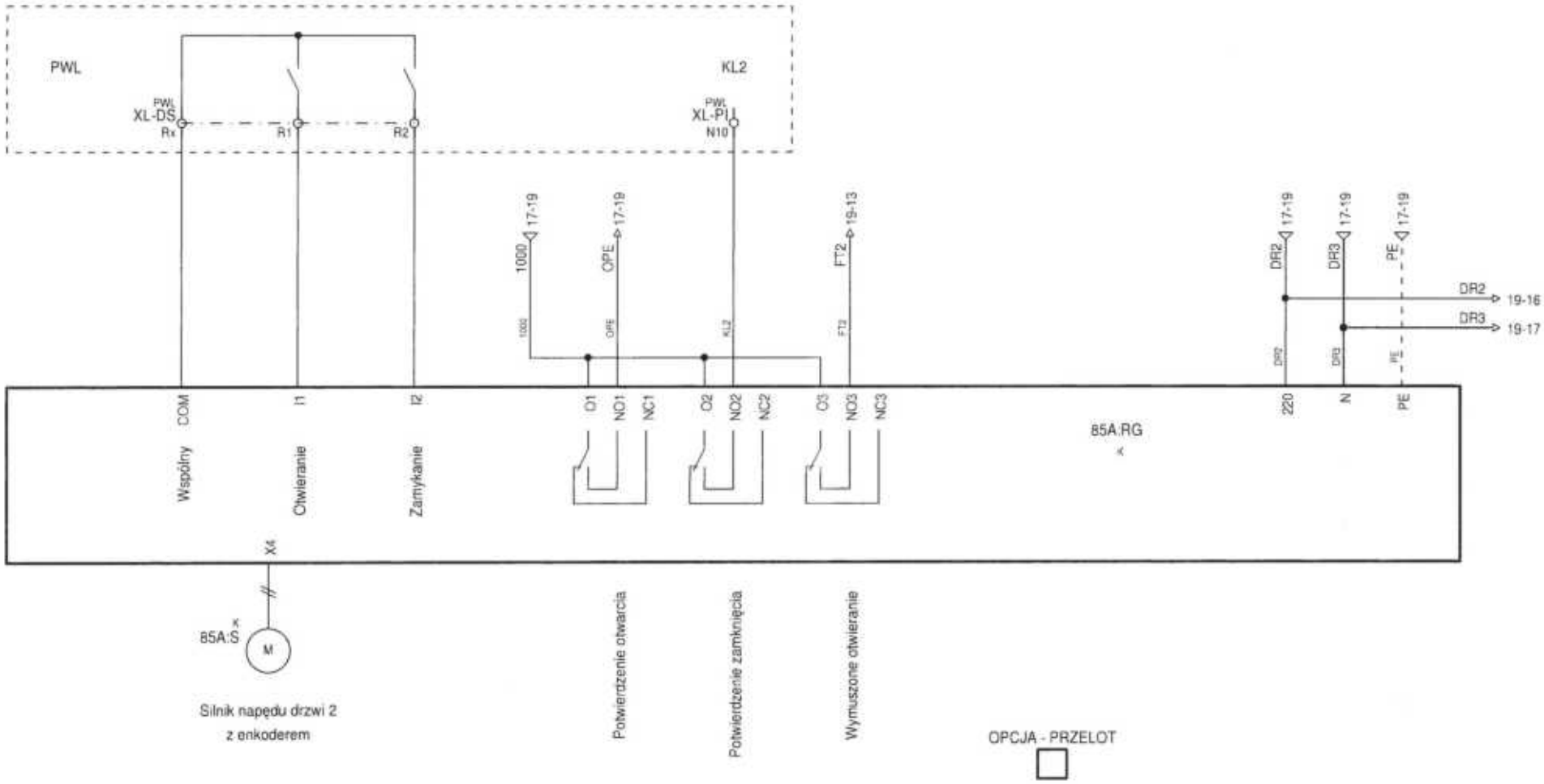


* - oznaczenia przystanków mogą być inne
** - podłączać w miarę występowania

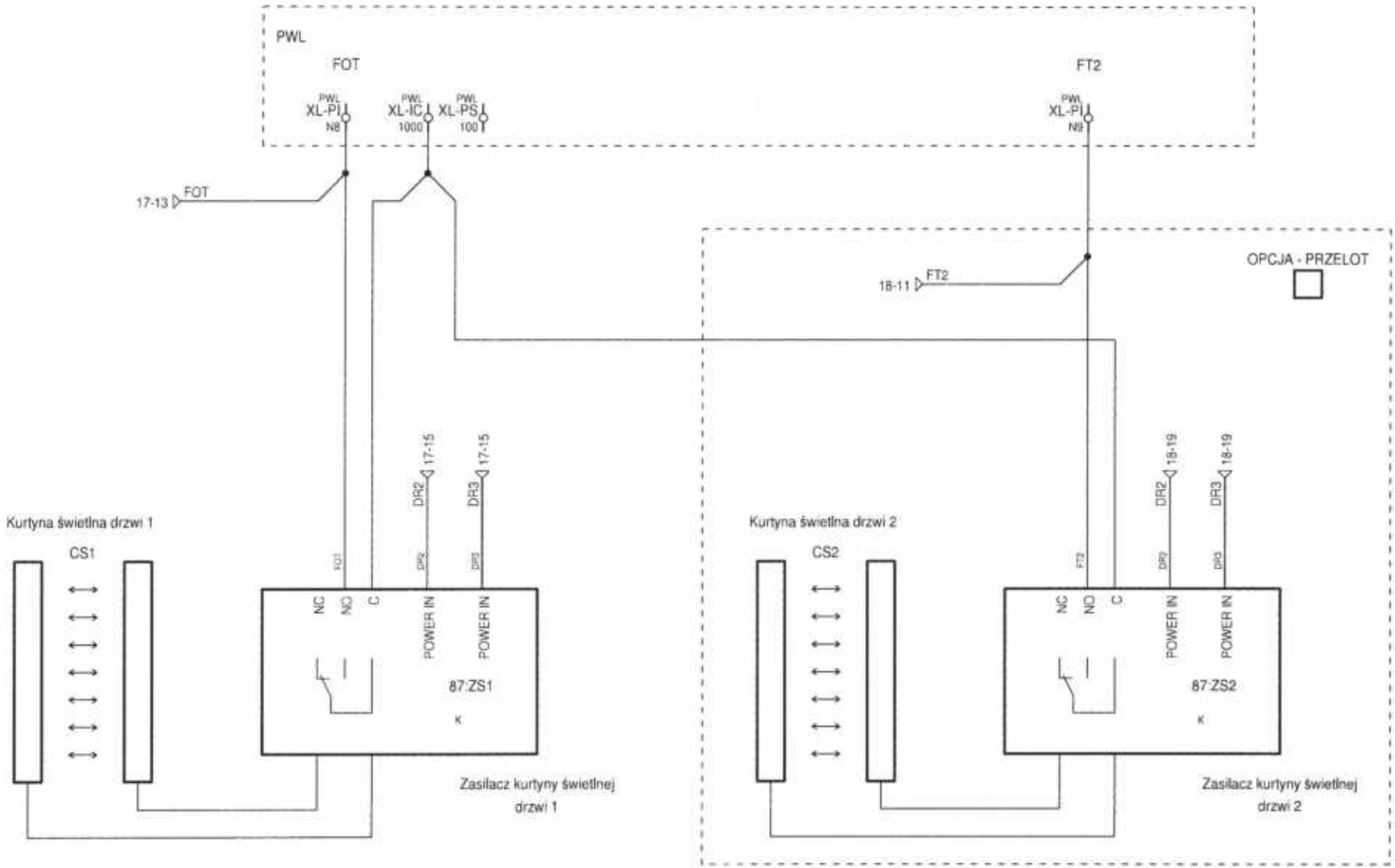
AUTIVOX Sp. z o.o. ul. Kolumba 43/47 02-288 Warszawa	PROJEKTOWAŁ	Sawski	2015-10-23	AUTIVOX	Tytuł: Kaseta dyspozycji - przyciski, wyświetlacz	Nr schematu: ALC - 936D9	Ilość ark. 21
	PODPIS	Sawski Dominik					ARKUSZ NR 16
		NAZWISKO	DATA				SGE V. 3.00



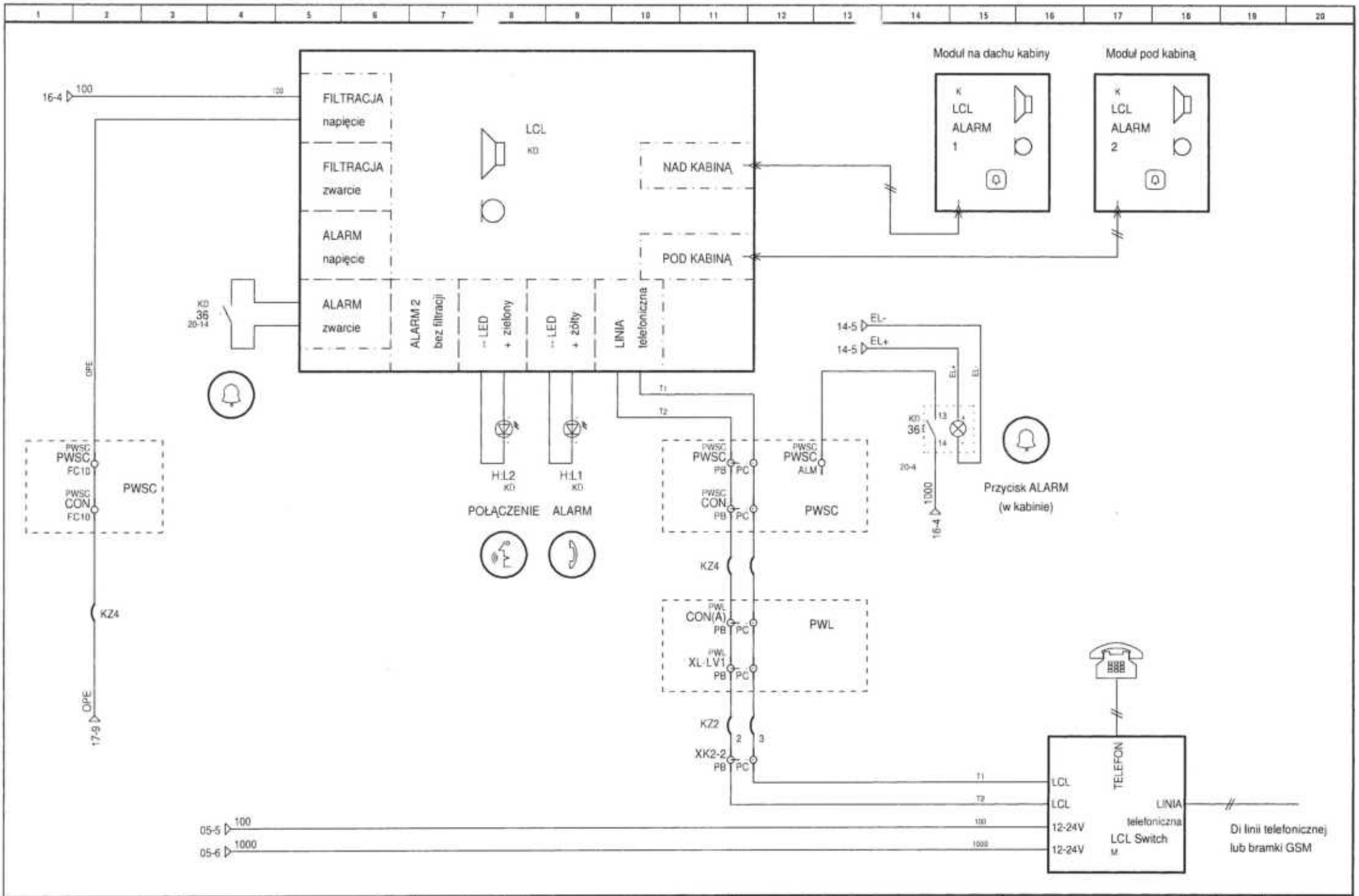
AUTIVOX Sp. z o.o. ul. Kolumba 43/47	PROJEKTOWAŁ	Swirski	2011-01-20	AUTIVOX	Tytuł: Napęd drzw. automatycznych	Nr schematu: ALC - 936D9	Ilość ark. 21	ARKUSZ NR 17
	PODPIS	Swirski Dariusz						SEE V. 3.00
		NAZWISKO	DATA					



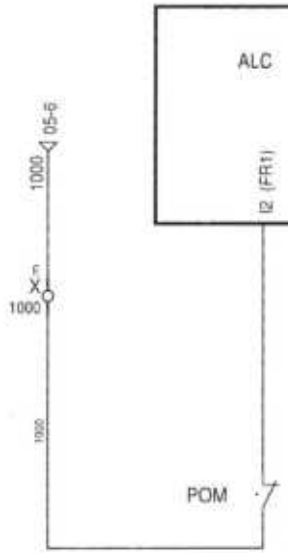
AUTIVOX Sp. z o.o. ul. Kolumba 43/47 02-288 Warszawa	PROJEKTOWAŁ	Świński	2016-09-17	AUTIVOX	Tytuł: Napęd drzwi automatycznych 2 (PRZELOT)	Nr schematu: ALC - 936D9	Ilość ark. 21
	PODPIS						ARKUSZ NR 18
		NAZWISKO	DATA				SEE V. 3.00



AUTIVOX Sp. z o.o. ul. Kolumba 43/47	PROJEKTOWAŁ	Siwiński	2015-08-28	AUTIVOX	Tytuł: Kurtyny świetlne	Nr schematu: ALC - 936D9	ilość ark. 21 / ARKUSZ NR 19 / 18 20
	PODPIS						SEE V. 3.00
		NAZWISKO	DATA				



AUTIVOX Sp. z o.o. ul. Kolumba 43/47 02-288 Warszawa	PROJEKTOWAŁ	Siwiński	2012-10-15	AUTIVOX	Tytuł: System łączności - telefonia stacjonarna	Nr schematu: ALC - 936D9	ilość ark. 21 / ARKUSZ NR 20
	PODPIS						19 21
		NAZWISKO	DATA				SEE V. 3.00



Łącznik wyzwolenia jazdy pożarowej
(normalnie zamknięty, rozwarcie wyzwala jazdę)

Programowaie:

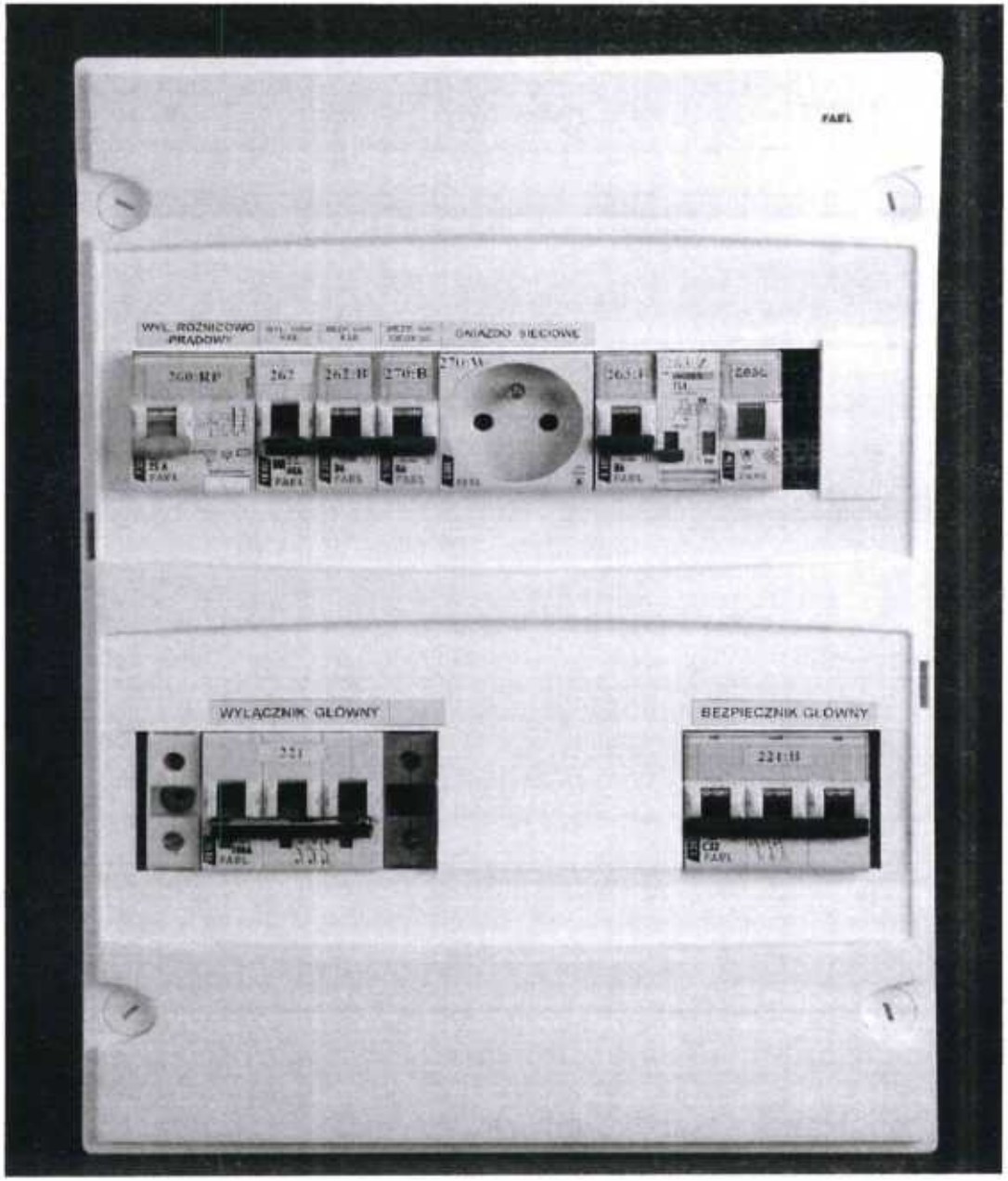
P7 - INPUT DEFINITION

I2 = 28 (FR1) [przypisanie funkcji do wejścia I2]

P2 - AUXILIARY PARAMETERS

B05 = (0...63) - przystanek ewakuacji pożarowej (0 - przystanek najniższy)

AUTIVOX Sp. z o.o. ul. Kolumba 43/47 02-288 Warszawa	PROJEKTOWAŁ	Siwiński	2018-11-13	AUTIVOX	Tytuł: Jazdy pożarowe (OPCJA)	Nr schematu: ALC - 936D9	Ilość ark. 21
	PODPIS	Siwiński Dariusz					ARKUSZ NR 21
		NAZWISKO	DATA				SEE V. 3.00

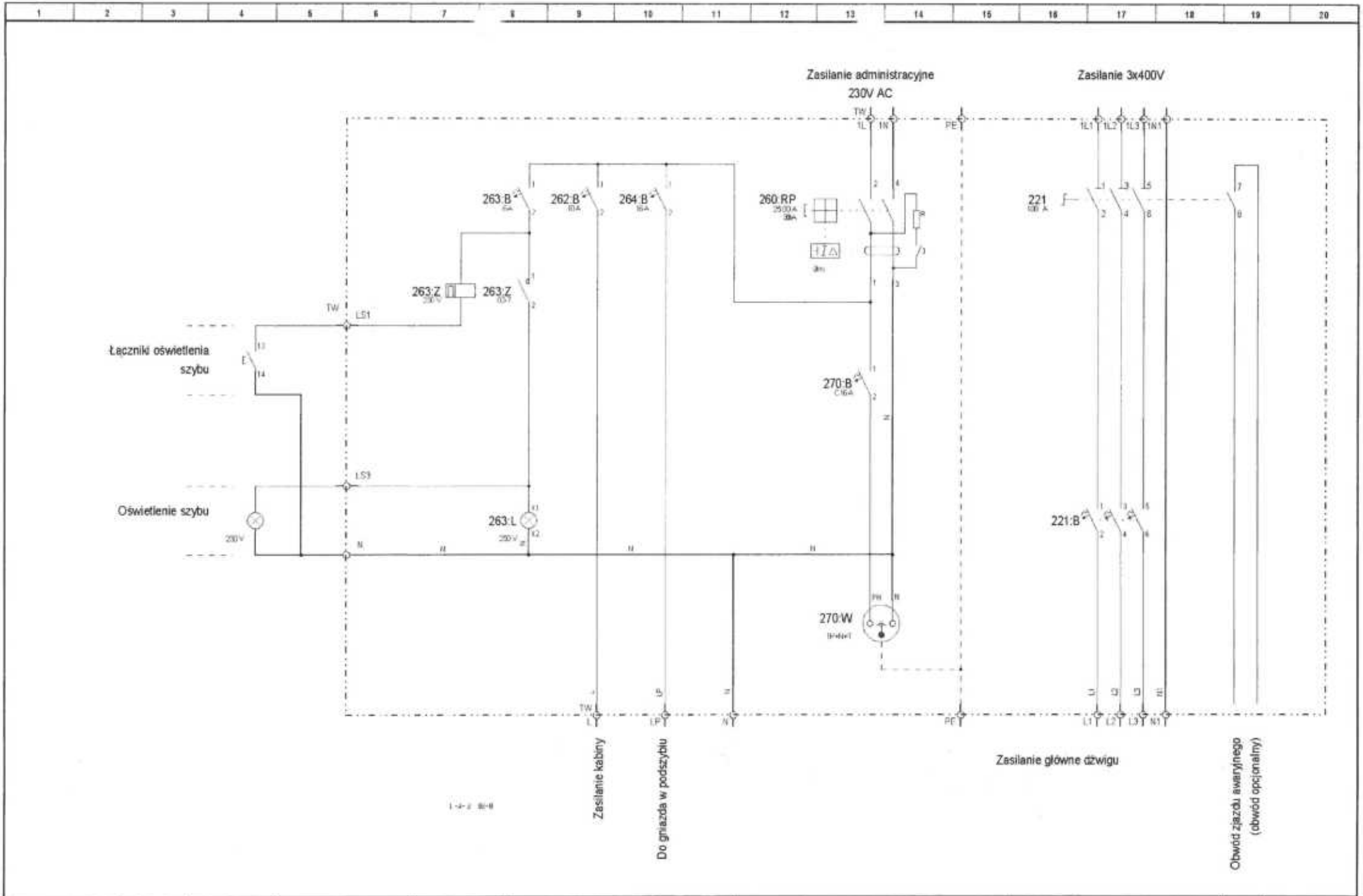


PRZYKŁADOWY WIDOK

TABLICA WSTĘPNA
TW-FM
MODEL

20A	25A	32A	40A	50A	63A	80A	
		✓					In

AUTIVOX Sp. z o.o. ul. Kolumba 43/47 02-288 Warszawa	PROJEKTOWAŁ	Siwiński	2005-04-04	AUTIVOX	Tytuł Tablica wstępna	Nr schematu TW - AUTIVOX	ARKUSZ NR 01
	PODPIS	Siwiński					← 01 02 →
		NAZWISKO	DATA				SEE V. 3.00



AUTIVOX Sp. z o.o. ul. Kolumba 43/47 02-288 Warszawa	PROJEKTOWAŁ	Siwiński	2005-12-29	AUTIVOX	Tytuł Tablica wstępna	Nr schematu TW - AUTIVOX	ARKUSZ NR 02
	PODPIS	Siwiński Dariusz					01 02
		NAZWISKO	DATA				SEE V 3.00

OZNACZENIE	SCHEMAT	OPIS	UWAGI	PRODUCENT
260.RP	01	WYŁĄCZNIK RÓŻNICOWOPRĄDOWY 2P 25A 30mA		LEGRAND (3)
270.W	01	GNIAZDO WTYKOWE 2P+Z 16A		LEGRAND (3)
263.L	01	LAMPKA SYGNALIZACYJNA, 250V		LEGRAND (3)
263.Z	01	PRZEKAŹNIK IMPULSOWY TL15500		TELEMECANIQUE (3)
263.B	01	WYŁĄCZNIK NADPRĄDOWY S301 1P CHAR. B 6A		LEGRAND (3)
264.B	01	WYŁĄCZNIK NADPRĄDOWY S301 1P CHAR. B 16A		LEGRAND (3)
262.B	01	WYŁĄCZNIK NADPRĄDOWY S301 1P CHAR. B 10A		LEGRAND (3)
270.B	01	WYŁĄCZNIK NADPRĄDOWY S301 1P CHAR. C 16A		LEGRAND (3)
221.B	01	WYŁĄCZNIK NADPRĄDOWY S303 3P CHAR. C - PRĄD = PRĄD ZNAMIONOWY TABLICY WSTĘPNEJ	(2)	LEGRAND (3)
221	01	WYŁĄCZNIK GŁÓWNY 100A TYP IS-100/3 LUB IS-100/4		MOELLER (3)

(2) - ZALEŻNIE OD TYPU TABLICY : 20A, 25A, 32A, 40A, 50A, 63A, 80A (wg zaznaczenia na pierwszej stronie)

(3) - LUB ODPOWIEDNIK INNYCH FIRM

PROJEKTOWAŁ				
SPRAWDZIŁ				
DATA UTWORZENIA	A	2005-09-02		
	L.P.	DATA	MODYFIKACJA	NADZIEJA

Projekt nr :

Tablica wstępna **TW - AUTIVOX**

SCHEMAT 01

Elementy w maszynowni

Symbol	Nazwa	Cecha	Typ zastosowany	Strona	Uwagi
20	Tablica wstępna	TW - AUTIVOX	Odpowiednia do mocy pompy agregatu	3	32A - odzielna dokumentacja
63:P	Przycisk sterowania oświetleniem szybu	Handlowy	250V AC	3	
1	Silnik napędowy głowny	Agregat hydrauliczny	3x400V 12,5 kW	6	
TH	Czujnik termistorowy temperatury oleju	Agregat hydrauliczny	PTC	6	
PTC	Czujnik termistorowy temperatury uzwojeń pompy	Agregat hydrauliczny	PTC	6	
GRZ	Grzałka oleju hydraulicznego	Agregat hydrauliczny	230VAC ok. 400W	6	
59	Łącznik przeciążenia	Styk 1NO	24V DC	6	
V:L10	Zawór bezpieczeństwa UCM	Agregat hydrauliczny	230VAC	7	
V:A	Elektrozawór jazdy wolno do góry	Agregat hydrauliczny	230VAC	7	
V:B	Elektrozawór jazdy szybko do góry	Agregat hydrauliczny	230VAC	7	
V:C	Elektrozawór jazdy szybko do dołu	Agregat hydrauliczny	230VAC	7	
V:D	Elektrozawór jazdy wolno do dołu	Agregat hydrauliczny	230VAC	7	
LCL Switch	Moduł łączności wewnętrznej kabina - maszynownia	EXITIS	LCL Switch	20	
TEL : M	Aparat telefoniczny w maszynowni	Handlowy		20	

Elementy w szybie

Symbol	Nazwa	Cecha	Typ zastosowany	Strona	Uwagi
163:P	Przycisk sterowania oświetleniem szybu	1NO - 250V AC	GIOVENZANA	3	W podszybiu
163A:P	Przycisk sterowania oświetleniem szybu	1NO - 250V AC	GIOVENZANA	3	(OPCJA) W podszybiu
270:P	Gniazdo sieciowe	Handlowe	2P+PE 10/16A	3	W podszybiu
S1-St	Oswietlenie szybu	Zgodnie z normą		3	
STOP:P	Przycisk STOP w podszybiu	Grzybkowy z blokadą zgodny z EN418	GIOVENZANA	8	
136:M	Łącznik krańcowy górny	PIZZATO FR538 20mm	250VAC	8	
S:D	Łącznik drabinki rozkładanej w podszybiu	AZ06 Schmersal	250VAC	8	
INS:P	Przełącznik jazdy inspekcyjnej	3NC+1NO 250VAC	GIOVENZANA	9	Kaseta w podszybiu
UP:P	Przycisk jazdy inspekcyjnej do góry	2NO 250VAC	GIOVENZANA	9	Kaseta w podszybiu
DN:P	Przycisk jazdy inspekcyjnej do dołu	2NO 250VAC	GIOVENZANA	9	Kaseta w podszybiu
RUN:P	Przycisk zezwolenia jazdy inspekcyjnej	2NO 250VAC	GIOVENZANA	9	Kaseta w podszybiu
SPB	Moduł kasety jazd inspekcyjnych z podszybia	AYBEY	SPB	3-12	W podszybiu
121:1A1-tA	Łączniki drzwi szybowych strona drzwi 1	Wg dokumentacji drzwi	250VAC	11	
D1-Dt	Wezwania do dołu		Styk NO 24V DC lampka max. 1,2W	12	
FC(0) - (t)	Stacje piętrowe z wyświetlaczami na przystankach	AYBEY	LED 24V	12	
M0-Mt-1	Wezwania do góry		Styk NO 24V DC lampka max. 1,2W	12	
36:S	Przycisk ALARM		Styk NO 24V DC	14	W podszybiu

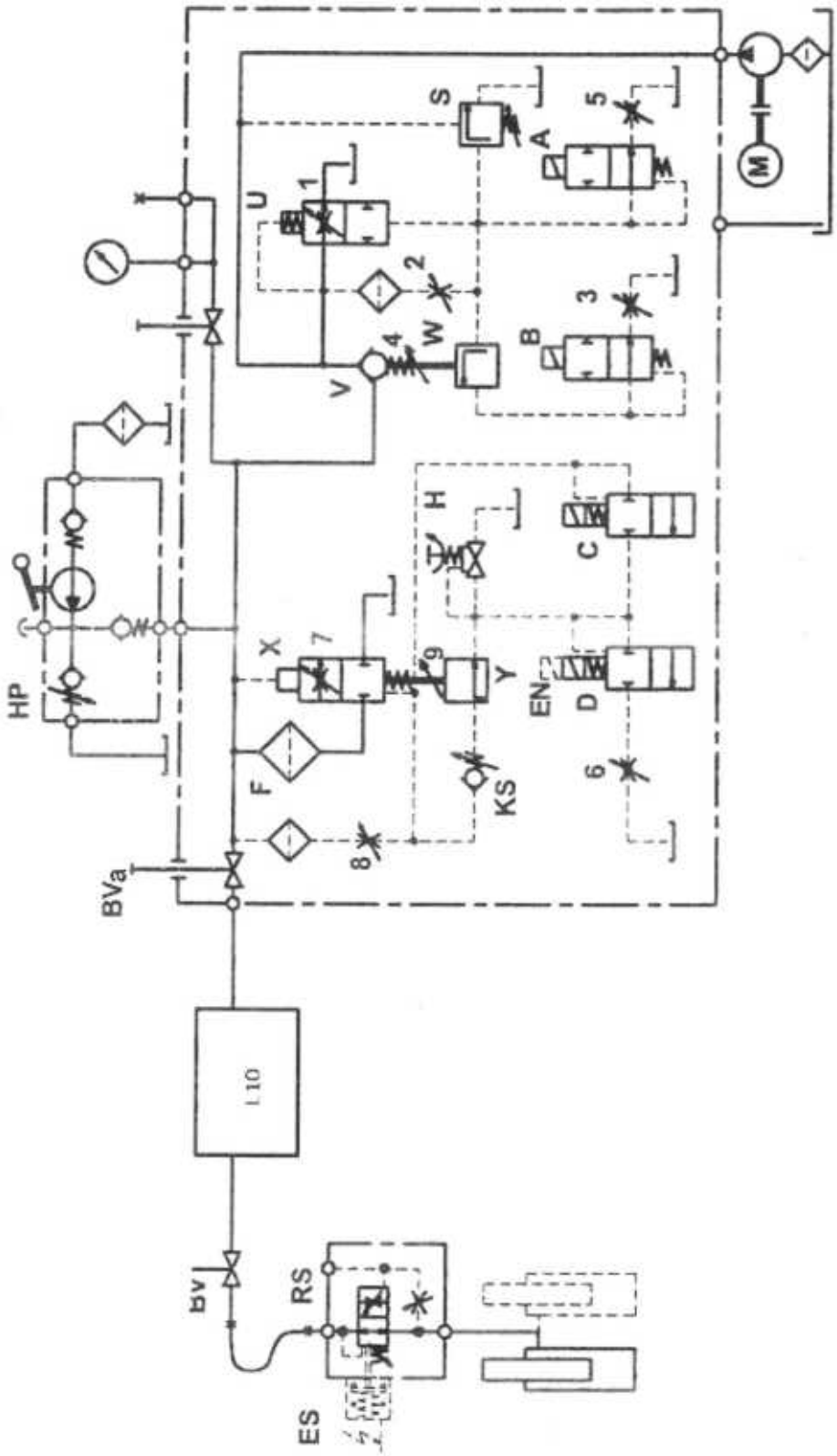
Elementy w kabinie lub na kabinie

Symbol	Nazwa	Cecha	Typ zastosowany	Strona	Uwagi
LS1	Przycisk sterowania oświetleniem szybu	1 NO 250V AC	GIOVENZANA	3	W kasecie jazd kontrolnych
270:K	Gniazdo sieciowe	Handlowe	2P+PE 10/16A	5	
LC	Oświetlenie podstawowe kabiny (ciągłe)	Wg zamówienia	230V AC	5	
LT	Oświetlenie czasowe kabiny	Wg zamówienia	230V AC	5	
43	Silnik wentylatora kabiny	Handlowy	230V AC	5	
PWH+PWL	Płyta kabinowa sterownika windy	AYBEY	PWH+PWL = komplet	5-20	
K:ECS	Przekaźnik pomocniczy oświetlenia awaryjnego	FINDER	40.52.230VAC	5	
ECS	Oświetlenie kabiny z funkcją oświetlenia awaryjnego	wg dokumentacji kabiny	230VAC	5	W dachu kabiny – OPCJA
INS:K	Przełącznik jazdy inspekcyjnej	3NC+1NO 250VAC	GIOVENZANA	10	W kasecie jazd kontrolnych
UP:K	Przycisk jazdy inspekcyjnej do góry	2NO 250VAC	GIOVENZANA	10	W kasecie jazd kontrolnych
DN:K	Przycisk jazdy inspekcyjnej do dołu	2NO 250VAC	GIOVENZANA	10	W kasecie jazd kontrolnych
RUN:K	Przycisk zezwolenia jazdy inspekcyjnej	2NO 250VAC	GIOVENZANA	10	W kasecie jazd kontrolnych
STOP:K	Przycisk STOP w kasecie jazd kontrolnych na kabinie	Grzybkowy z blokadą zgodny z EN418	GIOVENZANA	10	W kasecie jazd kontrolnych
87:A	Łączniki drzwi kabinowych	Wg dokument. drzwi	250VAC	11	
PWSC	Płyta kabinowa panela dyspozycji	AYBEY	PWSC	12-20	W kasecie dyspozycji
96	Piętrowskazywacz w kabinie	AYBEY	LED lub LCD zgodnie z zamówieniem	12	
817	Łącznik końcowy dolny	Zbliżeniowe lub mechaniczne	Magnetyczne bistabilne	13	
818	Łącznik końcowy górny	Zbliżeniowe lub mechaniczne	Magnetyczne bistabilne	13	
MKU, MKD	Aparaty punktowego odwzorowania położenia kabiny w szybie	Magnetyczne monostabilne	24VDC 1z	13	
ML1, ML2	Czujniki strefy drzwiowej - korekcja	Magnetyczne monostabilne	24VDC 1z	13	
36:K	Przycisk ALARM		Styk NO	14	W kasecie jazd kontrolnych
36	Przycisk ALARM		Styk NO	14	W kasecie dyspozycji
44:AW	Oświetlenie awaryjne kabiny	Wg normy	12W/ max 4W	14	
EL:K1	Oświetlenie awaryjne na dachu kabiny	Wg normy	Taśma LED 12V	14	
GL:K	Głośnik dynamiczny	8R/0,5W	Handlowy	14	W kasecie jazd kontrolnych
AKU	Akumulator zasilania awaryjnego	Handlowy	12V	14	(OPCJA)
H:BYP, S:BYP	Sygnalizacja akustyczna i optyczna jazdy w trybie BYPASS	Piezoceramiczny handlowy i LED handlowy	24VDC 1z	15	Pod kabiną
39:S	Buczek sygnalizacji przeciążenia	Piezoceramiczny handlowy	24V DC	16	W kasecie dyspozycji
34	Przycisk ponownego otwarcia drzwi kabinowych		24V DC	16	W kasecie dyspozycji
35	Przycisk zamykania drzwi kabinowych		24V DC	16	W kasecie dyspozycji
84:CO1	Stacyjka blokady zamknięcia drzwi		24V DC	16	W kasecie dyspozycji
C0-C1	Przyciski dyspozycji		Styk NO 24V DC lampka max. 1,2W	16	W kasecie dyspozycji
85:RG	Regulator napędu drzwi 1	Wg dokumentacji drzwi		17	
85:S	Silnik napędu drzwi kabinowych 1	Wg dokumentacji drzwi		17	
87:ZS1	Zasilacz kurtyny świetlnej			19	
CS1:N,O	Kurtyna świetlna	Wg dokumentacji drzwi		19	
H:L1, H:L2	Lampki sygnalizacyjne statusu systemu łączności	max. 24V, 100mA		20	W kasecie dyspozycji
LCL	Moduł kabinowy systemu łączności	Zgodny z EN81-28	LifCall Line EXTIS	20	W kasecie dyspozycji
LCL ALRAM 1	Moduł łączności na dach kabiny	Zgodny z EN81-28	LCL ALARM EXTIS	20	Na dachu kabiny
LCL ALRAM 2	Moduł łączności pod kabinę	Zgodny z EN81-28	LCL ALARM EXTIS	20	Pod kabiną

Elementy tablicy sterowej

Symbol	Nazwa	Cecha	Typ zastosowany	Strona	Uwagi
UPS	Zasilacz zasilania bezprzerwowego	Handlowy	230VAC 600VA lub więcej	4	
ALC	Płyta główna sterownika AYBEY	AYBEY	ALC	6-13	
ALSK	Płyta rozszerzeń wejścia / wyjścia sterownika AYBEY	AYBEY	ALSK	6-13	
FUPS	Wyłącznik nadprądowy	1P 4A char. C	S301C4 lub odpowiednik	4	
FTR1	Wyłącznik nadprądowy	1P 10A char. C	S301C10 lub odpowiednik	4	
FTKR	Wyłącznik różnicowoprądowy	2P 25A/30mA	Legrand lub odpowiednik	4	
B.H0	Bezpiecznik topikowy	5x20	WTA 2A zwłoczny	4	
H0	Oświetlenie szafy sterowej	Handlowa oprawa z wyłącznikiem	230VAC	4	
RP461	Wyłącznik różnicowoprądowy	2P 25A/30mA	Legrand lub odpowiednik	5	
F110	Wyłącznik nadprądowy	1P 2A char. C	S301C2 lub odpowiednik	5	
F24	Wyłącznik nadprądowy	1P 4A char. C	S301C4 lub odpowiednik	5	
F285	Wyłącznik nadprądowy	1P 4A char. C	S301C4 lub odpowiednik	5	
A24	Zasilacz impulsowy	230VAC/24VDC 4A	Handlowy	5	
D	Stycznik	3P, 32A cewka 230VAC	LC1D32P7	7	SLC-1 32 230VAC ADELID
S	Stycznik	3P, 25A cewka 230VAC	LC1D25P7	7	SLC-1 25 230VAC ADELID
M	Stycznik	3P, 32A cewka 230VAC	LC1D32P7	7	SLC-1 32 230VAC ADELID
DN	Przycisk jazdy manewrowej do dołu	1NO 250VAC	GIOVENZANA	8	
RUN	Przycisk zezwolenia jazdy manewrowej	1NO 250VAC	GIOVENZANA	8	
UP	Przycisk jazdy manewrowej do góry	1NO 250VAC	GIOVENZANA	8	
MAN	Przełacznick jazdy manewrowej	2NO+NC 250VAC	GIOVENZANA	8	
STOP	Przycisk blokady jazdy manewrowej	NC 250VAC	GIOVENZANA	8	
RES.P	Przycisk resetu po wyjściu z podszybia	1NO - 24VDC	SPAMEL	9	
S.BYP	Przełacznik mostkowania obwodów bezpieczństwa	4-pozycyjny, specjalny program łączeń	SPAMEL	11	
VZAS	Sygnalizator obecności kabiny w strefie drzwiowej	Lampka LED	12-24V DC	13	

SCHEMAT HYDRAULICZNY Z BLOKIEM ZAWOROWYM
EV100 i zaworem L10 Blain



BLOKI ZAWOROWE DO DŹWIGÓW

Regulacje jazdy DO GÓRY

1 By Pass
2 Przyśpieszenie do góry
3 Zwalnianie do góry
4 Prędkość dojazdowa do góry
5 Zatrzymanie do góry

Regulacje jazdy NA DÓŁ

6 Przyśpieszenie NA DÓŁ
7 Pełna prędkość NA DÓŁ
8 Zwalnianie NA DÓŁ
9 Prędkość dojazdowa NA DÓŁ

U – Zawór przelewowy (By Pass)
V – Zawór zwrotny
W – Zawór prędkości dojazdowej (do góry)
X – Zawór pełnej prędkości (dół)
Y – Zawór prędkości dojazdowej (na dół)
F – Filtr

EV

Elementy sterujące

A – Cewka zaworu zatrzymania do góry
B – Cewka zaworu zwalniania do góry
C – Cewka zaworu zwalniania na dół
D – Cewka zaworu zatrzymania na dół
H – Ręczne opuszczanie
S – Zawór naomiarowy

RS - zawór bezpieczeństwa rurociągu
HP - pompa ręczna
BV - zawór odcinający
BVa - zawór odcinający bloku zaw.
KS - regulacja zaworu niskiego ciśnienia
EH - zawór ręcznego uwalniania
L10 – zawór odcinający L10 Blain (zgodny z B1-2+A3)

Nr.	Nazwa
LF	Kołnierz
LFO	Kołnierz z o-ringiem
LB	Kula
LVF	Sprężyna – tłok główny
LFG	Stożek – tłok główny
LVO	Uszczelnienie – tłok główny
LVB	Korpus – tłok główny
LUO	O-ring – tłok główny
LH	Spust awaryjny – samozamykający się
LY	Regulacja spustu awaryjnego
HO	Uszczelnienie – spust awaryjny
MM	Nakrętka – zawór elektromagnetyczny
M	Cewka elektromagnesu (podać napięcie)
MD	Cewka prądu awaryjnego
DR	Rura – zawór elektromagnetyczny
MO	O-ring zaworu elektromagnetycznego
DF	Sprężyna – zawór elektromagnetyczny
DN	Iglica zaworu elektromagnetycznego
DK	Rdzeń – zawór elektromagnetyczny
DG	Uchwyt gniazda z elektromagnesem z sitkiem
DS	Podkładka gniazda – zawór elektromagnetyczny

Zawór odcinający L10 Blain

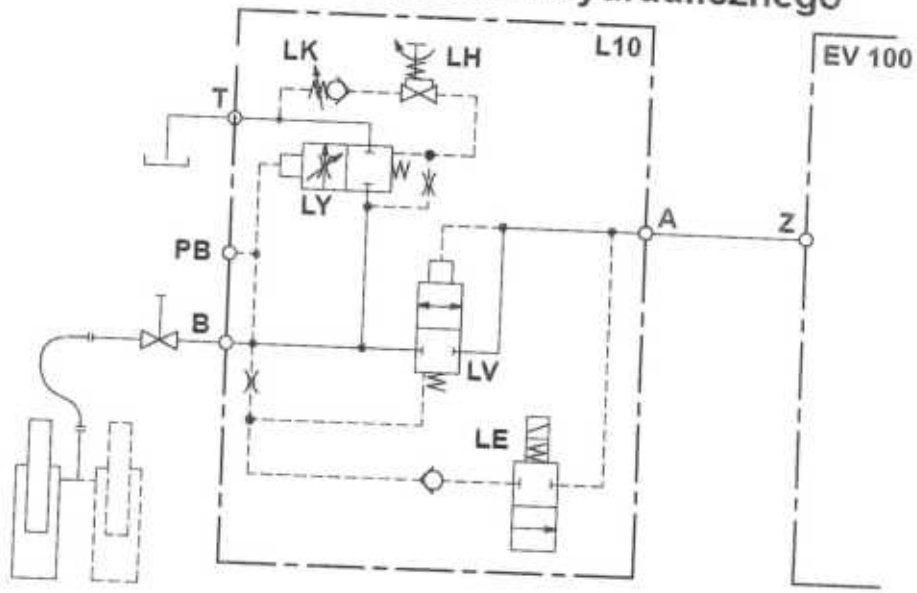
Elementy sterujące

LV Zawór zwrotny
LH Spust awaryjny
LK Zabezpieczenie tłoka (opcja)
LE Zawór elektromagnetyczny
PB Przyłącze ciśnieniowe
LY Regulacja spustu awaryjnego (nie dotyczy 1/2" L10)

Przyłącza

A Przyłącze zaworu sterującego
B Przyłącze po stronie siłownika
T Przewód powrotny do zbiornika

Schemat układu hydraulicznego



4. ŚWIADECTWA I CERTYFIKATY

ZERTIFIKAT ◆ CERTIFICATE ◆ 認証証書 ◆ СЕРТИФИКАТ ◆ CERTIFICADO ◆ CERTIFICAT

Industrie Service

EU TYPE-EXAMINATION CERTIFICATE

According to Annex IV, Part A of Directive 2014/33/EU

Certificate No.:	EU-DL588
Certification Body of the Notified Body:	TÜV SÜD Industrie Service GmbH Westendstr. 199 80686 München – Germany Identification No. 0036
Certificate Holder:	Meiller Aufzugtüren GmbH Ambossstraße 4 80997 München – Germany
Manufacturer of the Test Sample: (Manufacturer of Serial Production – see Enclosure)	Meiller Aufzugtüren GmbH Ambossstraße 4 80997 München – Germany
Product:	Locking device with hook bolt for horizontally moving, centre-opening, power-operated telescopic sliding landing doors with four panels
Type:	TTS 28
Directive:	2014/33/EU
Reference Standards:	EN 81-20:2014 EN 81-50:2014 EN 81-1:1998+A3:2009 EN 81-2:1998+A3:2009
Test Report:	No. EU-DL587-591, 755 dated 2016-02-09
Outcome:	The safety component conforms to the essential health and safety requirements of the mentioned Directive as long as the requirements of the annex of this certificate are kept.
Date of Issue:	2016-02-09
Date of Validity:	from 2016-04-20

Achim Janocha
Certification Body "lifts and cranes"

TÜV SÜD Industrie Service GmbH 00 36 Notified Body

TÜV®

Annex of the EU Type-Examination Certificate No. EU-DL588 of 2016-02-09

Industrie Servic

1 Scope of application

1.1 Locking device, type TTS 28, with hook bolt for horizontally moving, centre-opening, power-operated telescopic sliding landing doors with four panels

1.2 Permissible door dimensions:

The clear door dimensions (door width, door height) may only be

Clear width	Clear hight
700 mm ≤ CW ≤ 3500 mm	1800 mm ≤ CH ≤ 4500 mm (for CH < 2000 mm, measures due to EN 81-21, point 5.14)

CW / CH ≥ 0.35 (plastic counter pressure roller)
CW / CH ≥ 0.29 (steel counter pressure roller)

1.3 Nominal values of the electrical safety devices (lock contact / door contact):

The Nominal values of the electrical safety devices (lock contact / door contact) shall be chosen according the approval drawing no. 8275 3010 001 (page 2) dated 1999-11-22 with last change 'd' dated 2014-06-25 with certification stamp dated 2016-02-09.

2 Conditions

2.1 For identification and information about the principal construction the approval drawing no. 8275 3010 001 (page 1-2) dated 1999-11-22 with last change 'd' dated 2014-06-25 with certification stamp dated 2016-02-09 have to be enclosed this EU type-examination certificate and its annex.

2.2 The approval drawing no. 8275 3010 001 (page 1-2) dated 1999-11-22 with last change 'd' dated 2014-06-25 as well as the written notes and dimension details given in the mentioned approval drawings have to be observed.

In particular the following conditions have to be observed:

- When operating, the hook bolt must engage to a depth of ≥ 10 mm
- In case of interruption of the lock contact, the hook bolt must engage to a depth of ≥ 7 mm
- fixation of the locking device / notch of the bolt / counterbolt / door contact after assembling through a steel plate (folded around the corresponding base plate)
- The screwed connections must not be allowed to work themselves loose
- door strengthening of the door panel in relation of door width to door height (CW / CH) < 0.45
- hanger strengthening at fast hangers in relation of door width to door height (CW / CH) < 0.45, glas-door panels and door panels according to EN 81-71.

2.3 The EU type-examination certificate may only be used in connection with the pertinent annex and the enclosure (list of the authorised manufacturer of series production). This enclosure shall be updated and re-edited following information of the certificate holder.

3 Remarks

3.1 This EU type-examination was issued on basis of the following harmonised standards:

- EN 81-1:1998 + A3:2009 (D), Annex F.1
- EN 81-2:1998 + A3:2009 (D), Annex F.1
- EN 81-20:2014 (D), Number 5.3.9.1
- EN 81-50:2014 (D), Number 5.2

In case of changes resp. amendments of the above-named standards resp. advancements of the state of the art, a revision of this EU type-examination certificate will be necessary.

Note: The English text is a translation of the German original. In case of any discrepancy, the German version is valid only.

3.2 This EU type-examination certificate does not take into account compliancy to the conditions of the IP-Protection class for electrical equipment.

3.3 The measures and their impact on the limitation of the closing and moving force of the horizontal sliding landing doors are not part of the EU type-examination of the locking device.

3.4 Judgement of behaviour of the landing doors in case of fire is not an integrant part of the EU type-examination Certificate of the locking device.

3.5 At the locking device, in addition to the mark of the complete locking device, there shall be a label with the information necessary for the component's identification with the name of the manufacturer, EU type-examination sign and details of type.

Enclosure to the EU Type-Examination Certificate No. EU-DL588 of 2016-02-09

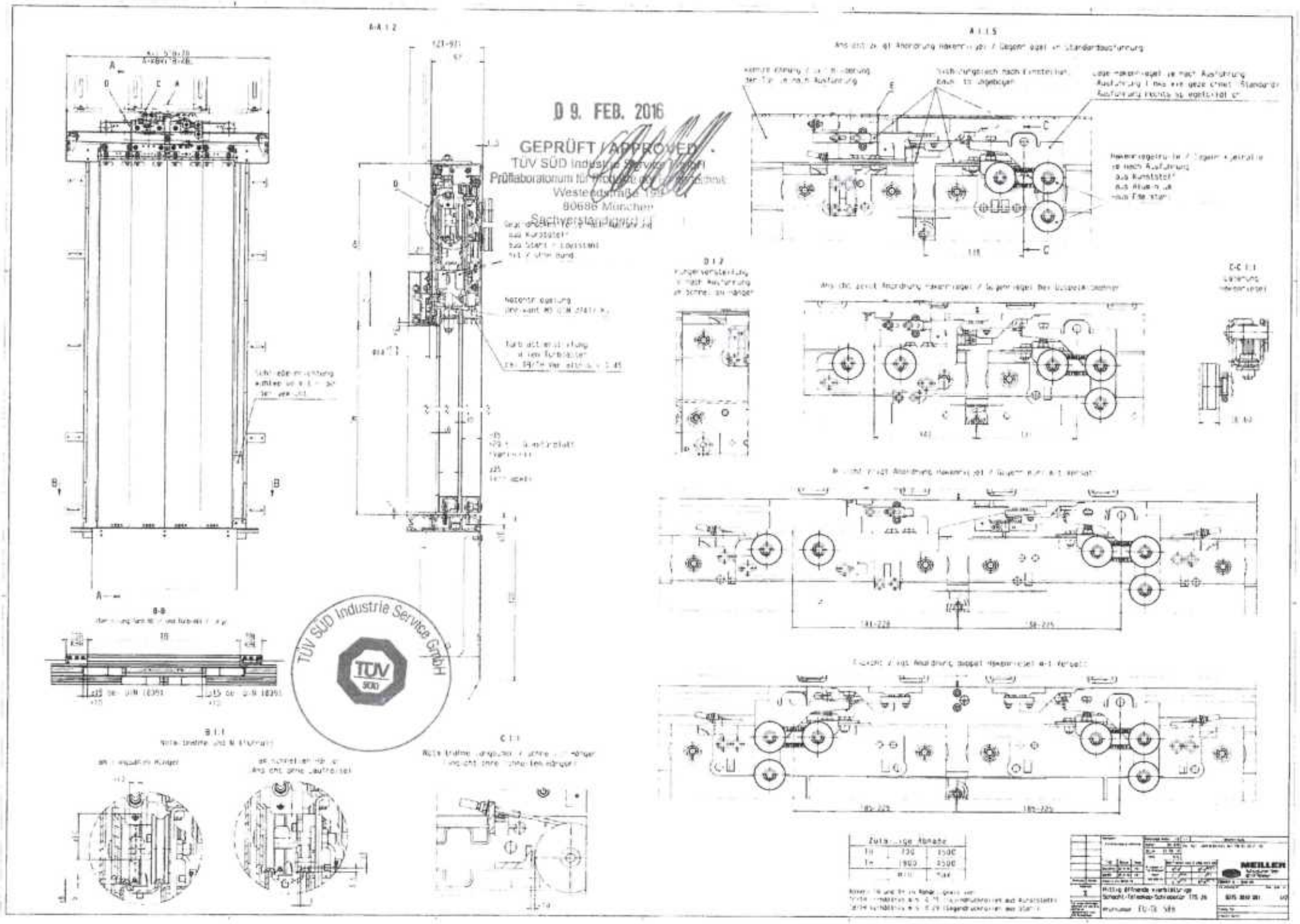
Industrie Servic

Authorised Manufacturer of Serial Production – Production Sites (valid from: 2016-02-09):

Company	Meiller Aufzugtüren GmbH
Address	Ambossstraße 4 80997 München – Germany

- END OF DOCUMENT -

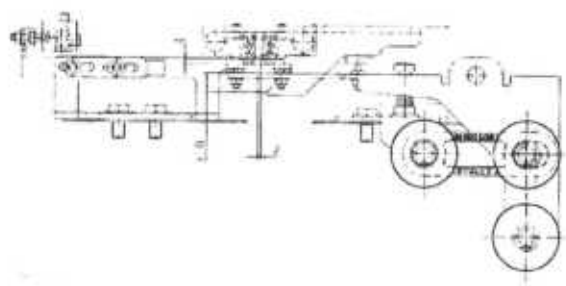
Based on: letter of Co. Meiller dated 2016-01-15

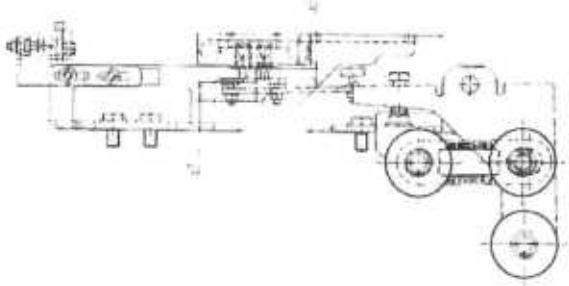


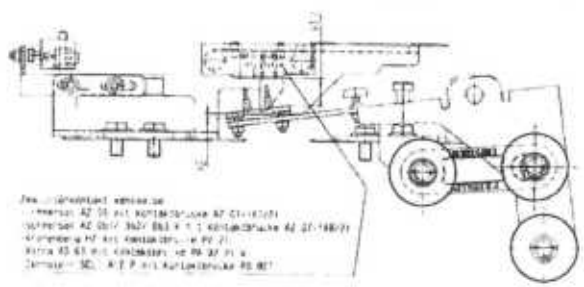
A-A 1:2
A 1:1.5
D 1:2
C-C 1:1
B-B
B 1:1
C 1:1
D 9. FEB. 2016
GEPRÜFT / APPROVED
TÜV SÜD Industrie Service GmbH
Prüflaboratorium für Produkte der Fördertechnik
Westendstraße 199
80686 München
Sachverständigen
TÜV SÜD Industrie Service GmbH
TÜV SÜD
Zulässige Abnahme
MEILLER

Sperrmittel und Kontakteingriff

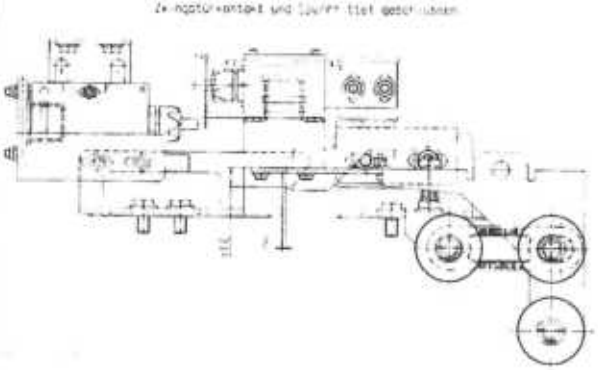
Schutzklasse IP 20

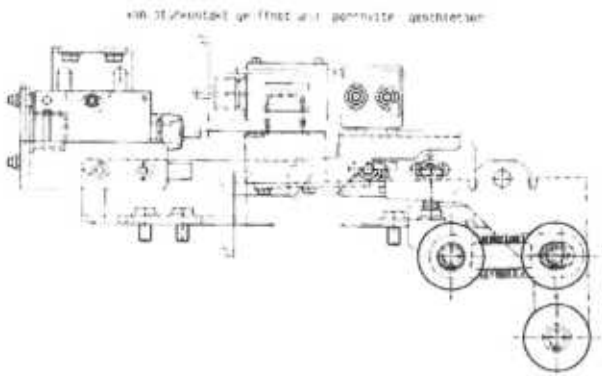


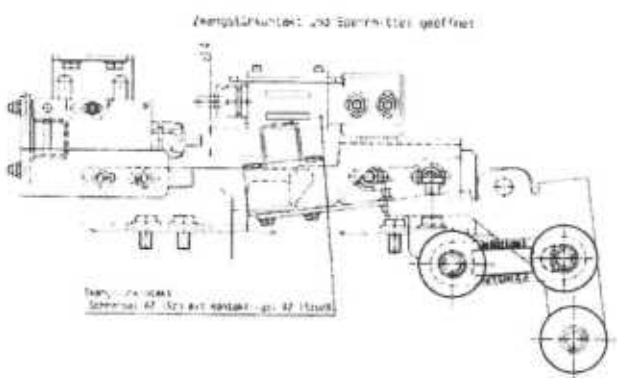




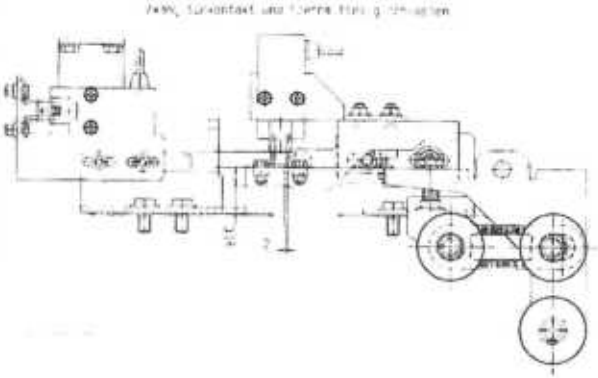
Schutzklasse IP 67 (Wasserschutz)

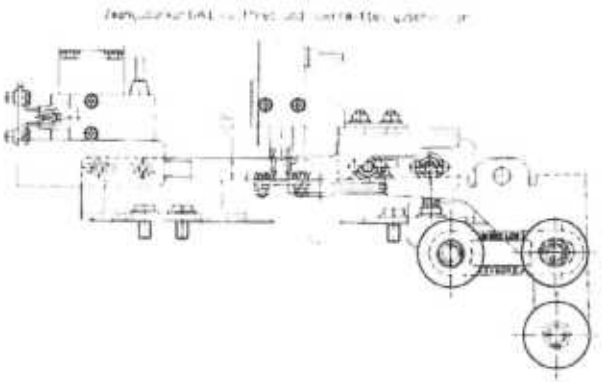


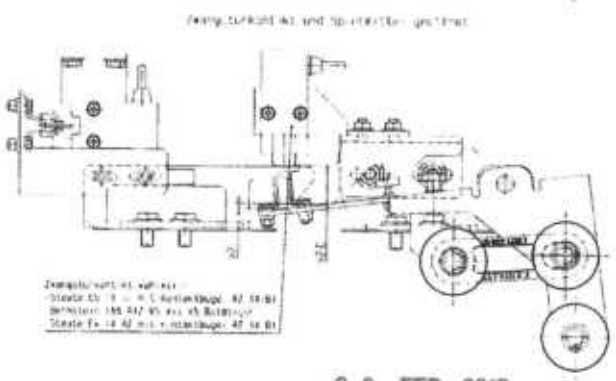




Schutzklasse IP 67 (Wasserschutz) oder Ex







Elektroinstallation (Erdungsklemme)

Schutzkontakt				
Schmersal AZ 1520	IP 67	AZ 15	230 V	24
		DC 13	200 V	24
Steute ES 14	IP 67	AZ 15	230 V	24
		DC 13	200 V	0.25A
Bernstein 188-412 KS	IP 54	AZ 15	230 V	24
		DC 13	200 V	0.5A
Steute Ex 14	EX	AZ 15	230 V	24
		DC 13	200 V	0.25A

0 9. FEB. 2016

GEPRÜFT / APPROVED
TÜV SÜD Industrie Service GmbH
Prüflaboratorium für Produktsicherheitstechnik
Westendstraße 199
80686 München
Sachverständiger / Expert

TÜV SÜD Industrie Service GmbH

ZERTIFIKAT ◆ CERTIFICATE ◆ 認証証書 ◆ СЕРТИФИКАТ ◆ CERTIFICADO ◆ CERTIFICAT

Industrie Service

Type examination certificate

about the execution of lateral pressure and pendulum shock tests
according EN 81-20:2014, number 5.3.5.3

Certificate number:	G 626/1
Applicant / Certificate holder:	Meiller Aufzugtüren GmbH Ambossstr. 4 80997 München – Germany
Date of submission:	2016-10-25
Manufacturer:	Meiller Aufzugtüren GmbH Ambossstr. 4 80997 München – Germany
Product:	Lateral Pressure and Pendulum Shock tests acc. EN 81-20:2014, number 5.3.5.3 on various landing- and car doors
Types:	TTS 25, STS 26, TTS 28, TTS 31 and TTS 32 TTK 25, STK 26, TTK 28, TTK 31 and TTK 32 Antriebseinheit System F DT 37, DT 38 and DT 39 Genius®Plus i, PREMIUS®S4i, PREMIUS®K4i
Test laboratory:	TÜV SÜD Industrie Service GmbH Abteilung Aufzüge und Sicherheitsbauteile Gottlieb-Daimler-Str. 7 70794 Filderstadt – Germany
Basis of examination:	– EN 81-20:2014 – EN 81-50:2014
Result:	The upper mentioned various landing- and car doors comply with the requirements of the basis of examination as long as the scope of application, requirements and remarks of the annex to this Type-examination certificate are kept.
Documents:	The permissible dimensions and principal construction of the assessed landing- and car doors are documented in the annex of this Type-examination certificate.
Date of issue:	2018-03-20

Test Laboratory Lifts and Safety Components
Business unit Lifts and Cranes

Peter Retzbach

TÜV®

Annex of the Type-examination certificate no. G 626/1 dated 2018-03-20

Industrie Service

1 Scope of Application

1.1 Landing and car sliding-doors

1.1.1 Horizontally and vertically moving landing and car sliding-doors, with door panels made of steel, with and without lateral door frames, which meet the requirements acc. EN 81-20:2014, number 5.3.5.3 of lateral pressure and pendulum shock tests

Landing-door, Type	Specification	Clear Door Width		Clear Door Height
TTS 25 TTS 25 kompakt	Side opening, 2-panel	600 mm - 1800 mm 700 mm - 1400 mm	(2 sliding guides / panel) (2 sliding guides / panel)	1800 mm - 4500 mm 2000 mm - 2300 mm
STS 26 STS 26 kompakt	Centre opening, 2-panel	600 mm - 1800 mm 700 mm - 1400 mm	(2 sliding guides / panel) (2 sliding guides / panel)	1800 mm - 4500 mm 2000 mm - 2300 mm
TTS 28 TTS 28 kompakt	Centre opening, 4-panel	700 mm - 3500 mm 1000 mm - 2400 mm	(2 sliding guides / panel) (2 sliding guides / panel)	1800 mm - 4500 mm 2000 mm - 2300 mm
TTS 31	Side opening, 3-panel	600 mm - 2500 mm	(2 sliding guides / panel)	1800 mm - 4500 mm
TTS 32	Centre opening, 6-panel	1050 mm - 4500 mm	(2 sliding guides / panel)	1800 mm - 4500 mm
Zenit	Centre opening, 6-panel	2400 mm - 6600 mm	(1 long sliding guide / panel)	2000 mm - 5000 mm
PREMIUS®S4i	Side opening, 4-panel	700 mm - 3000 mm (sliding guides on both sides of the panel)		2000 mm - 4000 mm

Table 1.1.1.a Horizontally and vertically moving landing sliding-doors, with door panels made of steel

Car-door, Type	Specification	Clear Door Width		Clear Door Height
TTK 25 TTK 25 kompakt	Side opening, 2-panel	600 mm - 1800 mm	(2 sliding guides / panel)	2000 mm - 4500 mm
STK 26 STK 26 kompakt	Centre opening, 2-panel	600 mm - 1800 mm	(2 sliding guides / panel)	2000 mm - 4500 mm
TTK 28 TTK 28 kompakt	Centre opening, 4-panel	700 mm - 3500 mm	(2 sliding guides / panel)	2000 mm - 4500 mm
TTK 31	Side opening, 3-panel	600 mm - 2500 mm	(2 sliding guides / panel)	2000 mm - 4500 mm
TTK 32	Centre opening, 6-panel	1050 mm - 4500 mm	(2 sliding guides / panel)	2000 mm - 4500 mm
Zenit	Centre opening, 6-panel	2400 mm - 6600 mm (1 long sliding guide / panel)		2000 mm - 5000 mm
PREMIUS®K4i	Side opening, 4-panel	700 mm - 3000 mm (sliding guides on both sides of the panel)		2000 mm - 4000 mm
Genius®Plus i	Side opening, vertically moving Roller Door	500 mm - 4000 mm		1800 mm - 3200 mm

Table 1.1.1.b Horizontally and vertically moving Car sliding-doors and car roller doors with door panels made of steel

1.1.1.1 Landing and Car sliding-doors, with door panels made of steel and vision panels and dimensions acc. EN 81-20:2014, number 5.3.7.2 ("car here" indication window) meet the requirements acc. EN 81-20:2014, number 5.3.5.3 of lateral pressure and pendulum shock tests.

1.1.1.2 Landing doors meet the requirements acc. EN 81-20:2014, number 5.3.5.3 of lateral pressure and pendulum shock tests as far as the following dimensions are not exceeded.

[mm]	Depth of door frame	Width of door frame	Height of door frame	Height of the door	Height of door + door frame
Standard door frame	23 - 160	350	350	4500	4850
Portal EN 81-20	30 - 160	1300	1000	3500	4000
Portal EN 81-58	30 - 90	1290	660	2500	2940
Portal DIN 18091	33 - 160	1300	850	2500	2650
Special lateral door framezargen (acc. specification PR008)	Structure of the frame with control cabinet according to drawing Nr. 8922 3058 087/088				

1.1.1.3 Horizontally moving landing sliding-doors, with door panels made of steel (EI 60 – coated with fire protection panel) and labyrinths between the door panels as well as the lateral door frames, which meet the requirements acc. EN 81-20:2014, number 5.3.5.3 of lateral pressure and pendulum shock tests

Landing-door, Type	Specification	Clear Door Width		Clear Door Height
TTS 25	Side opening, 2-panel	700 mm - 1700 mm	(2 sliding guides / panel)	1800 mm - 2645 mm
STS 26	Centre opening, 2-panel	700 mm - 1700 mm	(2 sliding guides / panel)	1800 mm - 2645 mm
TTS 28	Centre opening, 4-panel	700 mm - 3000 mm	(2 sliding guides / panel)	1800 mm - 2645 mm
TTS 31	Side opening, 3-panel	700 mm - 2000 mm	(2 sliding guides / panel)	1800 mm - 2645 mm
TTS 32	Centre opening, 6-panel	1050 mm - 3500 mm	(2 sliding guides / panel)	1800 mm - 2645 mm

1.1.1.4 Horizontally moving landing sliding-doors, with door panels made of steel (Thermolit door panel), which meet the requirements acc. EN 81-20:2014, number 5.3.5.3 of lateral pressure and pendulum shock tests

Landing-door, Type	Specification	Clear Door Width		Clear Door Height
TTS 25	Side opening, 2-panel	700 mm - 1400 mm	(2 sliding guides / panel)	1800 mm - 3500 mm for galvanized version and 1800 mm - 3500 mm for stainless steel version
STS 26	Centre opening, 2-panel	700 mm - 1400 mm	(2 sliding guides / panel)	
TTS 28	Centre opening, 4-panel	1400 mm - 2800 mm	(2 sliding guides / panel)	
TTS 31	Side opening, 3-panel	1050 mm - 2100 mm	(2 sliding guides / panel)	
TTS 32	Centre opening, 6-panel	2100 mm - 4200 mm	(2 sliding guides / panel)	

1.1.2 Landing and Car sliding-doors, with window frame panels which meet the requirements acc. EN 81-20:2014, number 5.3.5.3 of lateral pressure and pendulum shock tests

1.1.2.1 Landing and Car sliding-doors, with window frame panels – version MGT 01

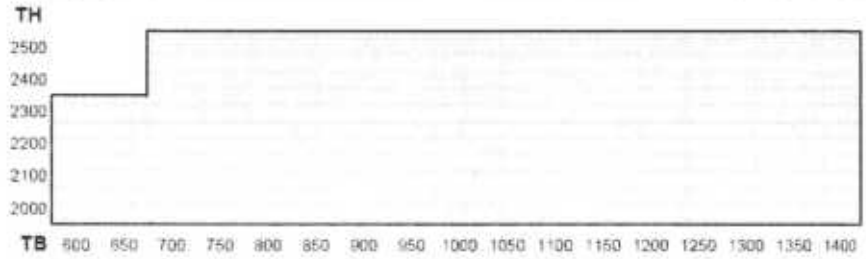
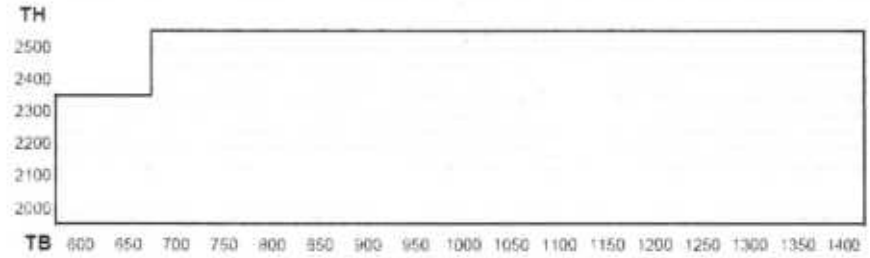
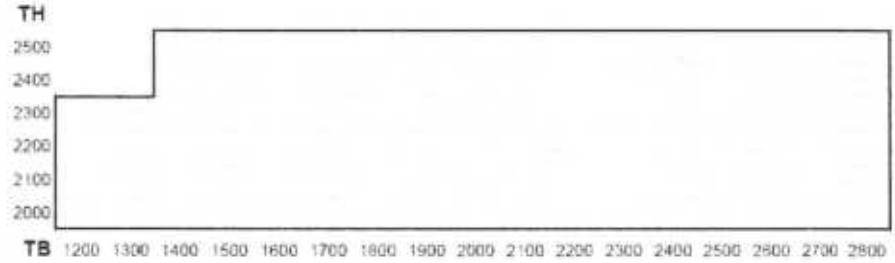
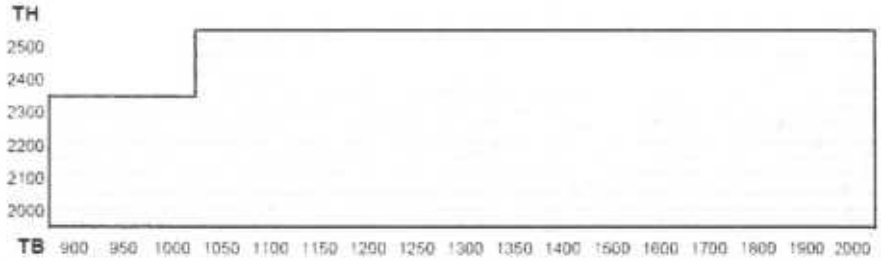
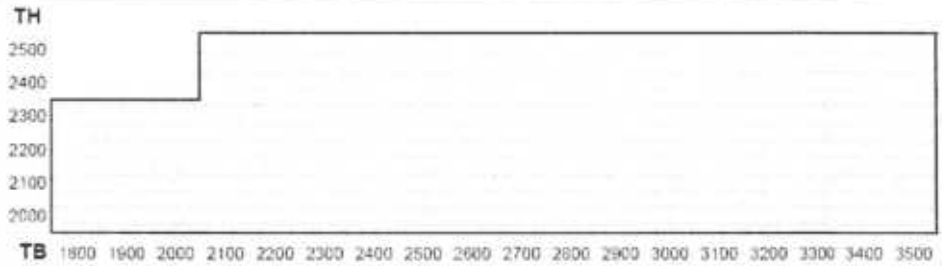
Landing- / Car door, Type, Specification	Clear Door Dimensions
TTS 25 / TTK25 Side opening, 2-panel	
STS 26 / STK 26 Centre opening, 2-panel	
TTS 28 / TTK 28 Centre opening, 4-panel	
TTS 31 / TTK 31 Side opening, 3-panel	
TTS 32 / TTK 32 Centre opening, 6-panel	

Table 1.1.2.1 Landing and Car sliding-doors, with window frame panels - version MGT 01

Industrie Service

1.1.2.2 Landing and Car sliding-doors, with window frame panels – version MGT 99 standard

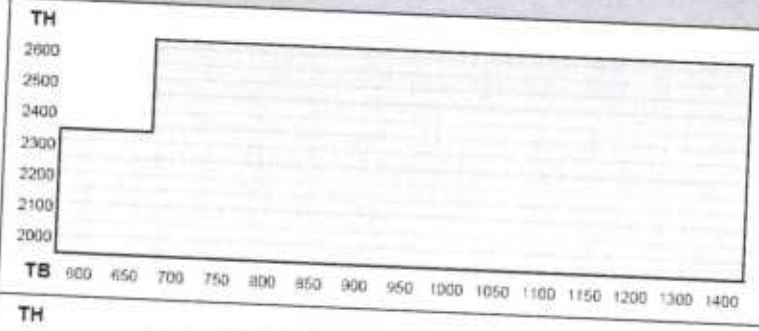
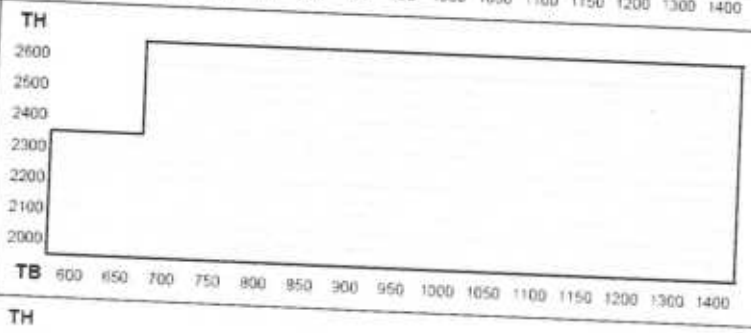
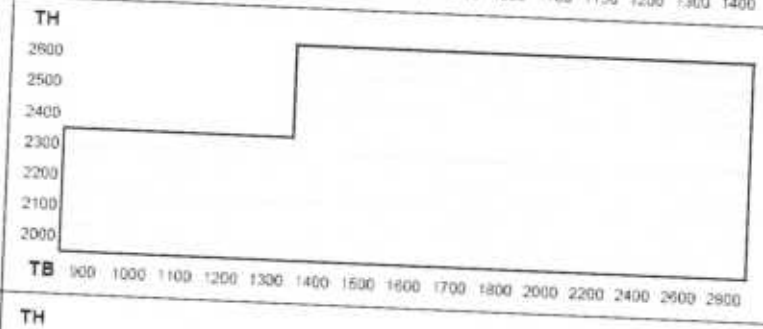
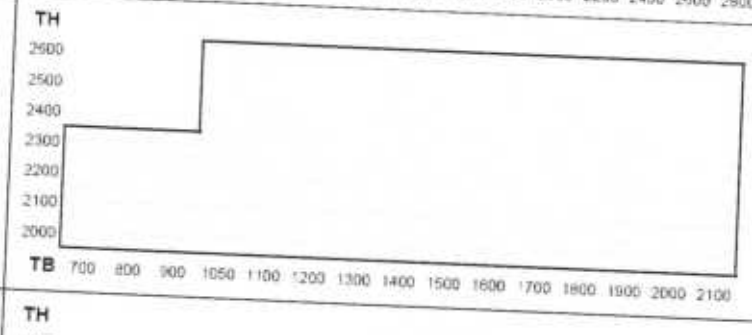
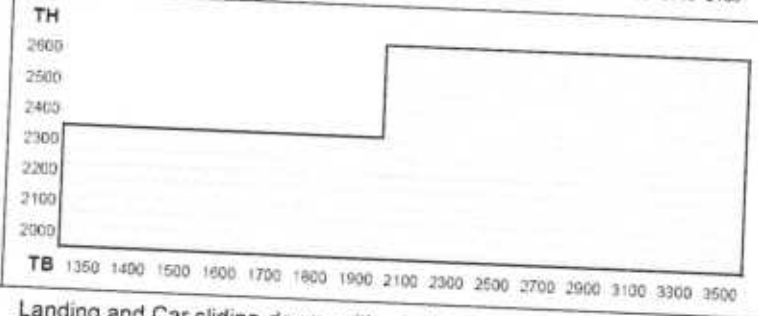
Landing- / Car door, Type, Specification	Clear Door Dimensions
TTS 25 / TTK25 Side opening, 2-panel	
STS 26 / STK 26 Centre opening, 2-panel	
TTS 28 / TTK 28 Centre opening, 4-panel	
TTS 31 / TTK 31 Side opening, 3-panel	
TTS 32 / TTK 32 Centre opening, 6-panel	

Table 1.1.2.2 Landing and Car sliding-doors, with window frame panels – version MGT 99 standard

1.1.2.3 Landing and Car sliding-doors, with window frame panels – version MGT 99 fire proofed acc. EN 81-58

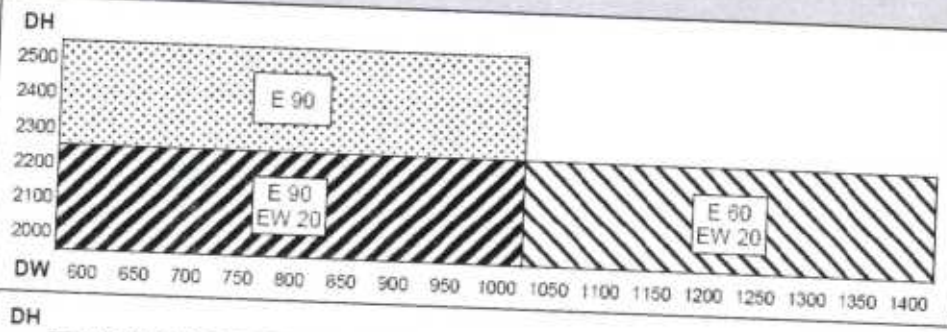
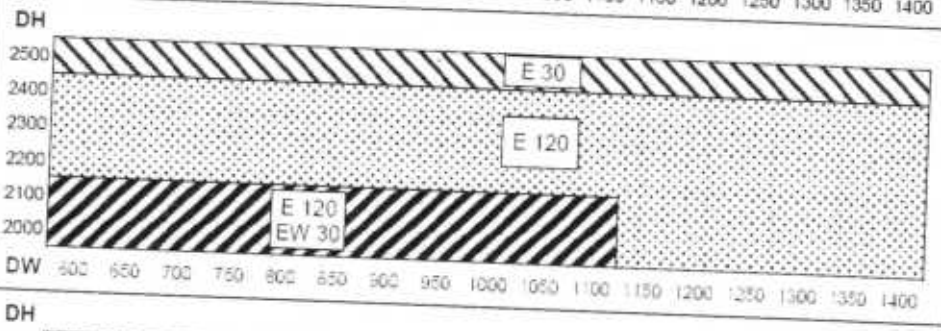
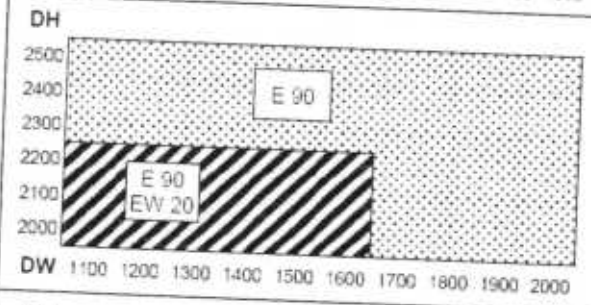
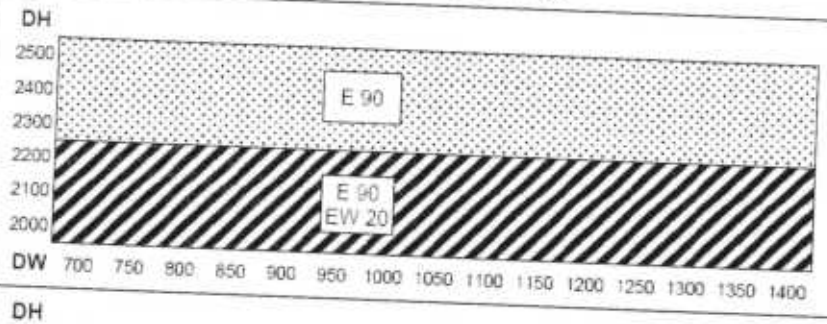
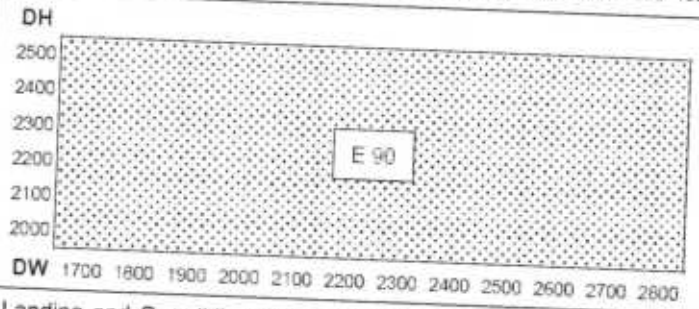
Landing- / Car door, Type, Specification	Clear Door Dimensions
TTS 25 / TTK25 Side opening, 2-panel	
STS 26 / STK 26 Centre opening, 2-panel	
TTS 28 / TTK 28 Centre opening, 4-panel	
TTS 31 / TTK 31 Side opening, 3-panel	
TTS 32 / TTK 32 Centre opening, 6-panel	

Table 1.1.2.2 Landing and Car sliding-doors, with window frame panels – version MGT 99 fire proofed acc. EN 81-58

1.1.3 Landing and Car sliding-doors, with glass panels which meet the requirements acc. EN 81-20:2014, number 5.3.5.3 of lateral pressure and pendulum shock tests

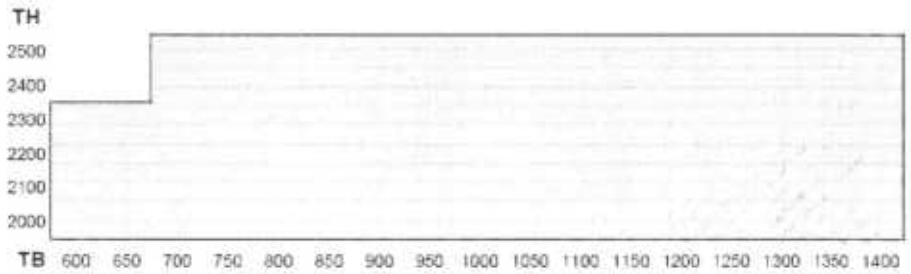
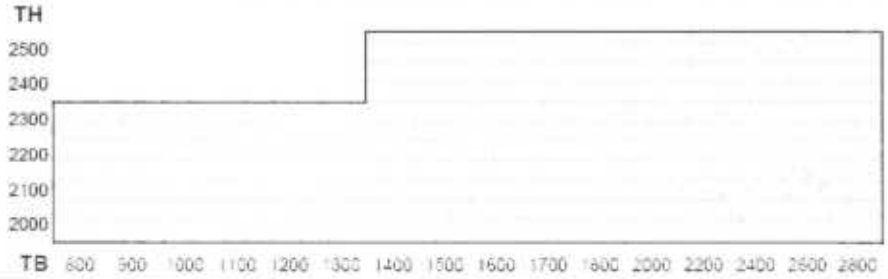
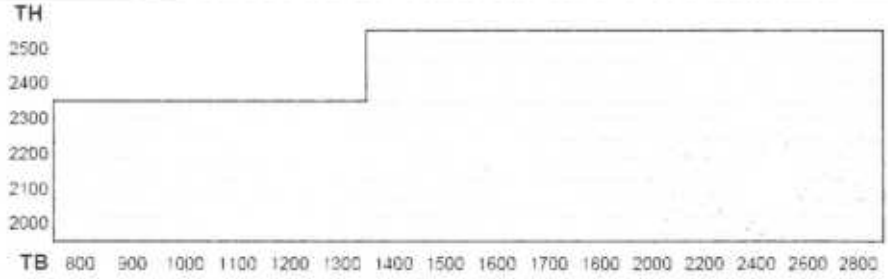
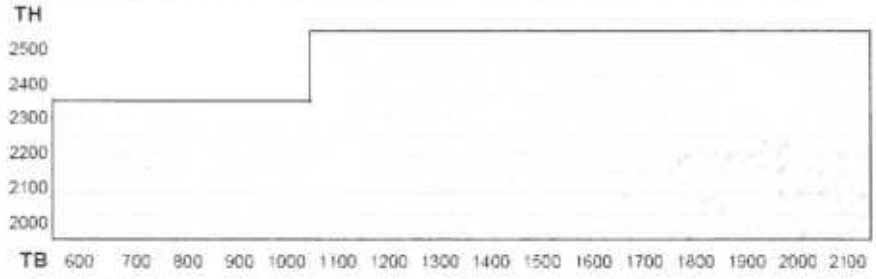
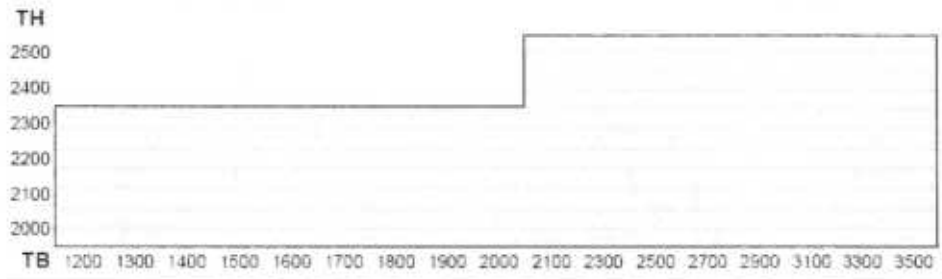
Landing- / Car door, Type, Specification	Clear Door Dimensions
TTS 25 / TTK25 Side opening, 2-panel	
STS 26 / STK 26 Centre opening, 2-panel	
TTS 28 / TTK 28 Centre opening, 4-panel	
TTS 31 / TTK 31 Side opening, 3-panel	
TTS 32 / TTK 32 Centre opening, 6-panel	

Table 1.1.3 Landing and Car sliding-doors, with glass panels

1.2 Landing Swing Doors

1.2.1 Landing Swing Doors with leaves made of steel, which meet the requirements of lateral pressure according EN 81-20:2014, number 5.3.5.3

Landing Door, Type	Specification	Clear Door Dimensions
DT 37	1 resp. 2 leaves	Each door leave of shaft hinged doors is on the lateral door frames, depending on its dimensions, fixed with up to 4 bands and is also fixed via the door lock. The torsion-resistant construction of the door leaves also contributes to the fact that the clear door dimensions up to a width of 5500 mm and height of 5000 mm are possible. The max. Width of the lateral door frames may be 400 mm.
DT 38	1, 2, 3 resp. 4 leaves	
DT 39	1, 2, 3 resp. 4 leaves	

Table 1.2.1 Landing Swing Doors with leaves made of steel

1.2.2 Landing Swing Doors with leaves made of steel and "car here" indication window resp. window frame leaves (Bellevue) meet the requirements acc. EN 81-20:2014, number 5.3.5.3 of lateral pressure and pendulum shock tests

Landing Door, Type	Specification	Clear Door Width	Clear Door Height
Bellevue	1 leave	500 mm – 1000 mm	2000 mm – 2100 mm
DT 37	1 resp. 2 leaves	Due to the mounting and the max. dimensions of the "care here" identification window will most of the energy, resulting from a pedulum shock test with the soft pendulum shock device (EN 81-50:2014, 5.14), be absorbed by the leave and if at all very little engery will need to be absorbed by the window. Therefore, the window will not detach from the door.	
DT 38	1, 2, 3 resp. 4 leaves		
DT 39	1, 2, 3 resp. 4 leaves		

Table 1.2.2 Landing Swing Doors with leaves made of steel "car here" indication window

2 Conditions

2.1 The landing-doors must be equipped with one of the following locking devices:

Type	Specification	Number of the EU type-examination certificate	Date of issue	Number of the Notified body (EU type-examination)
TTS 25	Side opening, 2-panel	EU-DL 591	2016-02-09	0036
STS 26	Centre opening, 2-panel	EU-DL 589	2016-02-09	0036
TTS 28	Side opening, 4-panel	EU-DL 588	2016-02-09	0036
TTS 31	Side opening, 3-panel	EU-DL 590	2016-02-09	0036
TTS 28	Centre opening, 6-panel	EU-DL 587	2016-02-09	0036
Zenit	Centre opening, 6-panel	EU-DL 674	2016-12-06	0036
TTS 25 Kompakt	Side opening, 2-panel	EU-DL 1043	2017-11-02	0036
STS 26 Kompakt	Centre opening, 2-panel	EU-DL 1044	2017-11-02	0036
TTS 28 Kompakt	Side opening, 4-panel	EU-DL 1045	2017-11-02	0036
Antriebseinheit System F	Side / Centre opening, 2, 3, 4 or 6-panel	EU-DL 756	2018-03-02	0036
PREMIUS®S4i	Side opening, 4-panel	EU-DL 1036/2	2018-03-01	0036

Table 2.1 Landing door locking devices

2.2 The landing door with flap type door locking device must be equipped with one of the following locking devices:

Type	Specification	Number of the EU type-examination certificate	Date of issue	Number of the Notified body (EU type-examination)
DT 38	Swing door with flap type door locking device	EU-DL 755	2016-02-09	0036
The types DT 37 and DT 39 are equipped with a bolt lock (e.g. Kronenberg)				

Table 2.2 Landing Swing Door locking devices

2.3 The clear door dimensions of landing and car sliding doors resp. car roller doors must be within the scope of number 1.1 to meet the requirements acc. EN 81-20:2014, number 5.3.5.3 of lateral pressure and pendulum shock tests.

2.4 The clear door dimensions of landing dinged doors must be within the scope of number 1.2 to meet the requirements acc. EN 81-20:2014, number 5.3.5.3 of lateral pressure and pendulum shock tests.

2.5 Landing and car sliding doors with panels with "car here" indication window, window frame, glass panels, "Thermolit" panels und panels coated with glass need to have sliding guides with a lip in the sill and counterpressure rollers with flange.

3 Remarks

3.1 The pendulum shock tests showed that a counter pressure roller with flange made of plastic (drawing: 8279 3046 028) may be used instead of the counter pressure roller with a flange made of steel (drawing: 8279 3046 010) on the fast track. There are no counter pressure rollers with flange on the slow tracks, as the panel cannot fall into the shaft in case the upper guides collapse.

3.2 Glass door panels are framed at the upper and bottom side. The slow door panels are equipped with a bar along the complete height to reduce the air gap and therefore the entanglement hazard.

3.3 It has been proven experimentally that steel door panels with a concealed lower sill guides have at least the same strength as steel door panels with 2 sliding guides according to section 1.1. Therefore, the permissible range of dimensions of landing and car doors with concealed lower sill guides can be selected in accordance with point 1.1.

3.4 For landing sliding doors of the installation situation EvoM allows the a visible lateral door frame of max. 150 mm.

3.5 Landing and car sliding doors of types STS 23 and STK 23 are technically identical to the door generation 3 (TTS 25, STS 26, TTS 28, TTS 31 and TTS 32).
Due to this identical construction, landing and car sliding doors of the types STS 23 and STK 23 can be considered as a single-panel version of the types TTS 25 and TTK 25.

3.6 Door panels with 33 mm thickness and full-surface bonding with 5 mm glass can be selected in their dimensions analogous to the glass door panels according to Table 1.1.3.

3.7 Door panels made of steel with a height exceeding 2300 mm have not beenTürblätter aus Stahlblech mit Türhöhen über 2300 mm wurden nicht geprüft, da die mechanische Belastung auf die oberen Rückhalteeinrichtungen geringer wird.

3.8 If sliding guides with a lip are mounted on the sill, the sliding guide gets caught inside the sill during a pendulum shock test.

3.9 Landing sliding doors with attached drive unit, type "Antriebseinheit System F", are identical with the relevant sliding door type TTS 25, STS 26, TTS 28, TTS 31 and TTS 32. The respective dimensions can therefore be selected according to Table 1.1.1

3.10 For vertically moved car doors with a width exceeding 2800 mm a stiffning profile (Aluminium, 20x20x2 mm) will be glued inside the fins.

3.11 For vertically moved car doors with a greater width, the elastic deformation resulting from the test acc. EN81-20, number 5.3.5.3.1 (300 N on a cross section of 5 cm²) may be a bit more 15 mm (max. 30 mm).
These elastic deformation is not critical as the distance of the fins to the edge of the car is 50 mm based on the specified mounting.

3.12 This type-examination certificate is based on the following harmonized standards:
- EN 81-20:2014, Abschnitt 5.3.5.3
- EN 81-50:2014, Abschnitt 5.14

3.13 Newer versions of the EU type-examination certificates, mentioned under number 2.1 and 2.2, are also permitted.

3.14 This type-examination is based on the state of the art, which is documented by the valid harmonised standards. Changes or amendments of these standards or an advancement of the state of the art may create the need of a revision of these certified assessment.

3.15 The conditions and remarks of the EU type-examinations of the locking devices, mentioned under number 2.1 and 2.2, are still valid and must be kept.

ZERTIFIKAT ◆ CERTIFICATE ◆ 認証証書 ◆ СЕРТИФИКАТ ◆ CERTIFICADO ◆ CERTIFICAT

Industrie Service

Type examination certificate

about the assessment of a locking device for car doors of compliance with the Basis of examination

Certificate number:	G 630/1
Applicant / Certificate holder:	Meiller Aufzugtüren GmbH Ambossstr. 4 80997 München – Germany
Date of submission:	2018-02-22
Manufacturer:	Meiller Aufzugtüren GmbH Ambossstr. 4 80997 München – Germany
Product:	Locking device with hook bolt for several horizontally moving, power-operated sliding car doors
Types:	STK 23 (K-1-R/L) TTK 25 (K-2-R/L) STK 26 (K-2-Z) TTK 28 (K-4-Z) TTK 31 (K-3-R/L) TTK 32 (K-6-Z)
Test laboratory:	TÜV SÜD Industrie Service GmbH Abteilung Aufzüge und Sicherheitsbauteile Gottlieb-Daimler-Str. 7 70794 Filderstadt – Germany
Basis of examination:	– EN 81-20:2014 (D) – EN 81-50:2014 (D)
Result:	The locking device for car doors complies with the requirements of the basis of examination as long as the scope of application, requirements and remarks of the annex to this type examination certificate are kept.
Documents:	For identification and information about the principal construction and function of the assessed product, the examination drawing no. 8278 3010 006 dated 2015-10-22 (5 pages) with last change "87730" with certification stamp dated 2018-06-04 needs to be enclosed to this type examination certificate and its annex.
Date of issue:	2018-06-04

Test Laboratory "lifts and cranes"

Peter Reizbach

TÜV®

Annex to the type examination certificate
no. G 630/1 dated 2018-06-04

Industrie Service

1 Scope of application

1.1 Locking device with hook bolt for various horizontally-moving, power operated, side opening, 1-, 2- or 3-panel, as well as centre opening 2-, 4-, or 6-panel car (telescopic) sliding doors.

1.2 Permitted door dimensions:

Type	Clear door width [mm]	Clear door height [mm]
STK 23	600 ≤ DW ≤ 1000	2000 ≤ DH ≤ 2500
TTK 25	600 ≤ DW ≤ 1800	2000 ≤ DH ≤ 4500
STK 26	600 ≤ DW ≤ 1800	2000 ≤ DH ≤ 4500
TTK 28	700 ≤ DW ≤ 3500	2000 ≤ DH ≤ 4500
TTK 31	600 ≤ DW ≤ 2500	2000 ≤ DH ≤ 4500
TTK 32	1050 ≤ DW ≤ 4500	2000 ≤ DH ≤ 4500

1.3 Permitted ratios of door width/door height (DW/DH ratios):

Type	Counterpressure roller made of plastic (fast carriage)	Counterpressure roller made of steel (fast carriage)	Reinforcements on all door panels and the fast carriages
STK 23	generally possible	generally possible	each fast carriage
TTK 25	≥ 0.18	≥ 0.11	< 0.23
STK 26	≥ 0.18	≥ 0.15	< 0.23
TTK 28	≥ 0.35	≥ 0.29	< 0.45
TTK 31	≥ 0.27	≥ 0.16	< 0.34
TTK 32	≥ 0.525	≥ 0.44	< 0.675

1.4 Nominal values of electrical safety devices (lock contact):

Type	Alternating Current	Direct Current
Schmersal AZ 06	230 V / 2 A	200 V / 2 A
Schmersal AZ 08	230 V / 2 A	200 V / 2 A
Schmersal AZ 061 / 062 / 063	230 V / 2 A	200 V / 2 A
Kronenberg HZ	230 V / 2 A	200 V / 2 A
Astra AS 03	230 V / 2 A	200 V / 2 A
Bernstein SEL1-A1Z P	230 V / 2 A	200 V / 2 A
Steute ES 14 AZ	230 V / 2 A	200 V / 0.25 A
Steute Ex 14 AZ	230 V / 2 A	200 V / 0.25 A
Bernstein I88-A1Z KS	230 V / 2 A	200 V / 0.5 A
Schmersal AZ 15-zo	230 V / 2 A	200 V / 0.5 A

2 Conditions

2.1 The Approval drawing no. 8278 3010 006 dated 2015-10-22 (5 pages) with last changes "87730" dated 01.02.2018 with certification stamp dated 2018-06-04 must be observed as well as the written instructions and dimensions.

The following conditions must be observed in particular:

- Engagement depth of the hook bolt in operating state ≥ 10 mm
- Engagement depth of the hook bolt when the lock contact opens ≥ 7 mm

- fixation of the locking device / notch of the bolt / counterbolt / door contact support after assembling through a steel plate (folded around the corresponding base plate)
- The screwed connections must not be allowed to work themselves loose

2.2 For the locking device, other design types, installation positions, actuating devices, or additional control devices listed in the approval drawings must not be used.

2.3 The closing position of centre opening car (telescopic) sliding doors shall be monitored by a separate electric safety device (door switch). This certificate does not cover the testing of this electric safety device.

2.4 The locking device must just open via the door drive when the rollers of the hook bolt of the landing door locking device are present.

2.5 Opening the car door from inside the car must be possible by hand in the unlocking zone when the lift car is stationary and when the door drive is switched off.

2.6 For identification and information about the principal construction and function of the assessed product, the examination drawing no. 8278 3010 006 dated 2015-10-22 (5 pages) with last changes "87730" dated 01.02.2018 with certification stamp dated 2018-06-04 needs to be enclosed to this type examination certificate and its annex.

3 Notes

3.1 This type examination does not cover evaluation of this and other measures against dragging of children's hands into lift cab sliding doors with glass panels and the necessary gaps between the door panels and frames.

3.2 The measures and their impact on the limitation of the closing and moving force of the horizontal sliding landing doors are not part of the type examination of the locking device.

3.3 Judgement of behaviour of the car doors in case of fire and explosion prevention and protection is not an integrant part of the type examination certificate of the locking device.

3.4 Adherence to the conditions for the IP protective categories in accordance with DIN EN 60529 for protection against foreign bodies and penetration of water for electrical operating devices is not part of the type examination for the locking mechanism.

3.5 At the car door, there shall be a label with the information necessary for the component's identification with the name of the manufacturer, type examination number and type of car door.

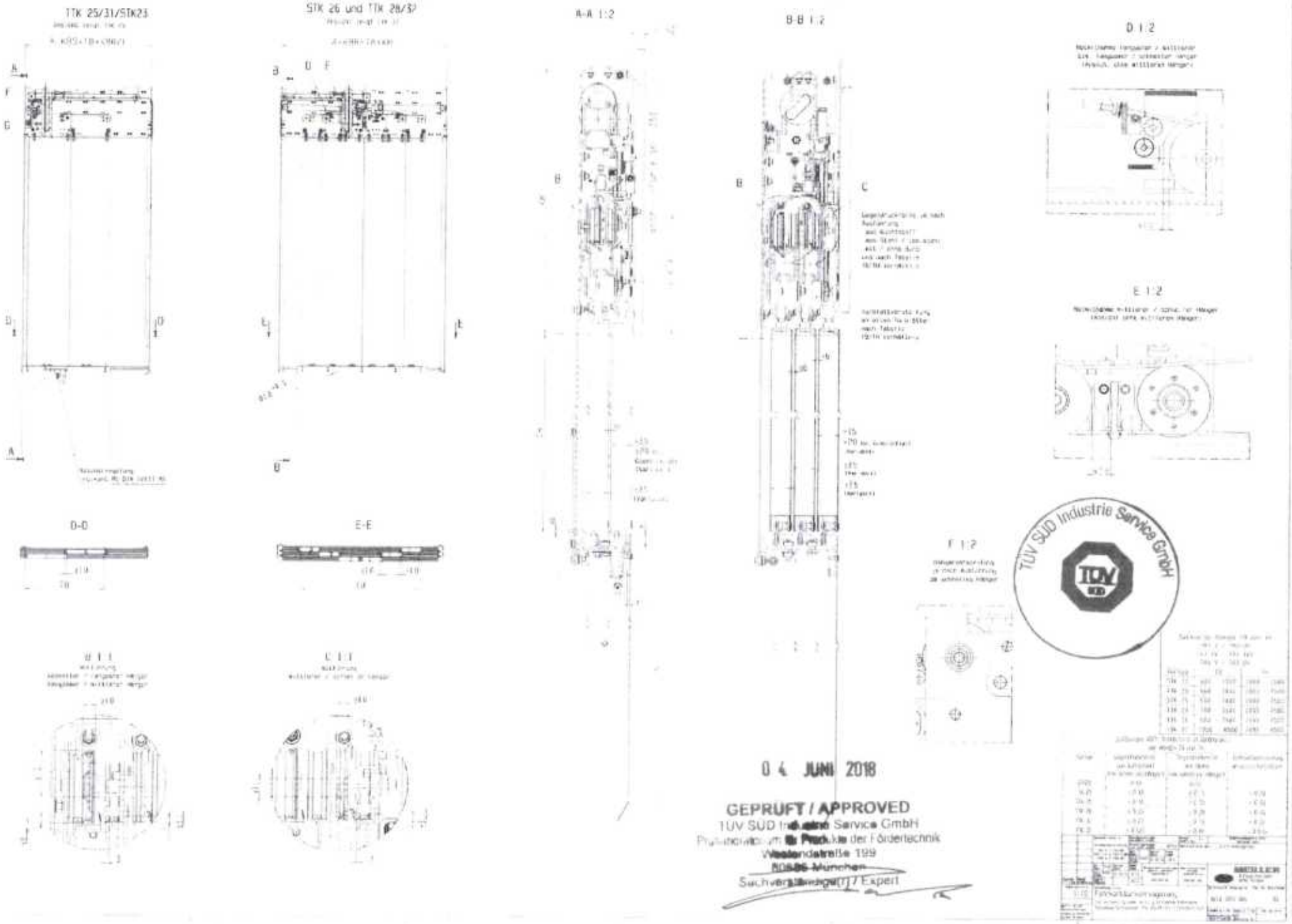
3.6 In dependence on annex IX of the lifts directive 2014/33/EU, this locking device is subject to the agreement about random checks between our certification body and the manufacturer.

3.7 This type-examination certificate does not correspond to an EU type-examination certificate in accordance with Annex IV, part A (EU-type examination certificate for safety components in accordance with Annex III) of Directive 2014/33/EC for legal purposes.

3.8 This type-examination certificate must only be used together with the corresponding annex.

3.9 In addition to the type examination of the locking device, the mechanical strength of various designs of sliding doors have been evaluated in accordance with EN 81-20:2014. (Reference is made to the type-examination certificate G 626/1 resp. its revisions)

3.10 This type examination certificate is based on the state of the art, which is documented via currently valid harmonized standards. Revision may be necessary in case of changes or additions to these standards or in case of future development to the state of the art.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STK 26 und TTK 28/37
A-A 1:2
B-B 1:2
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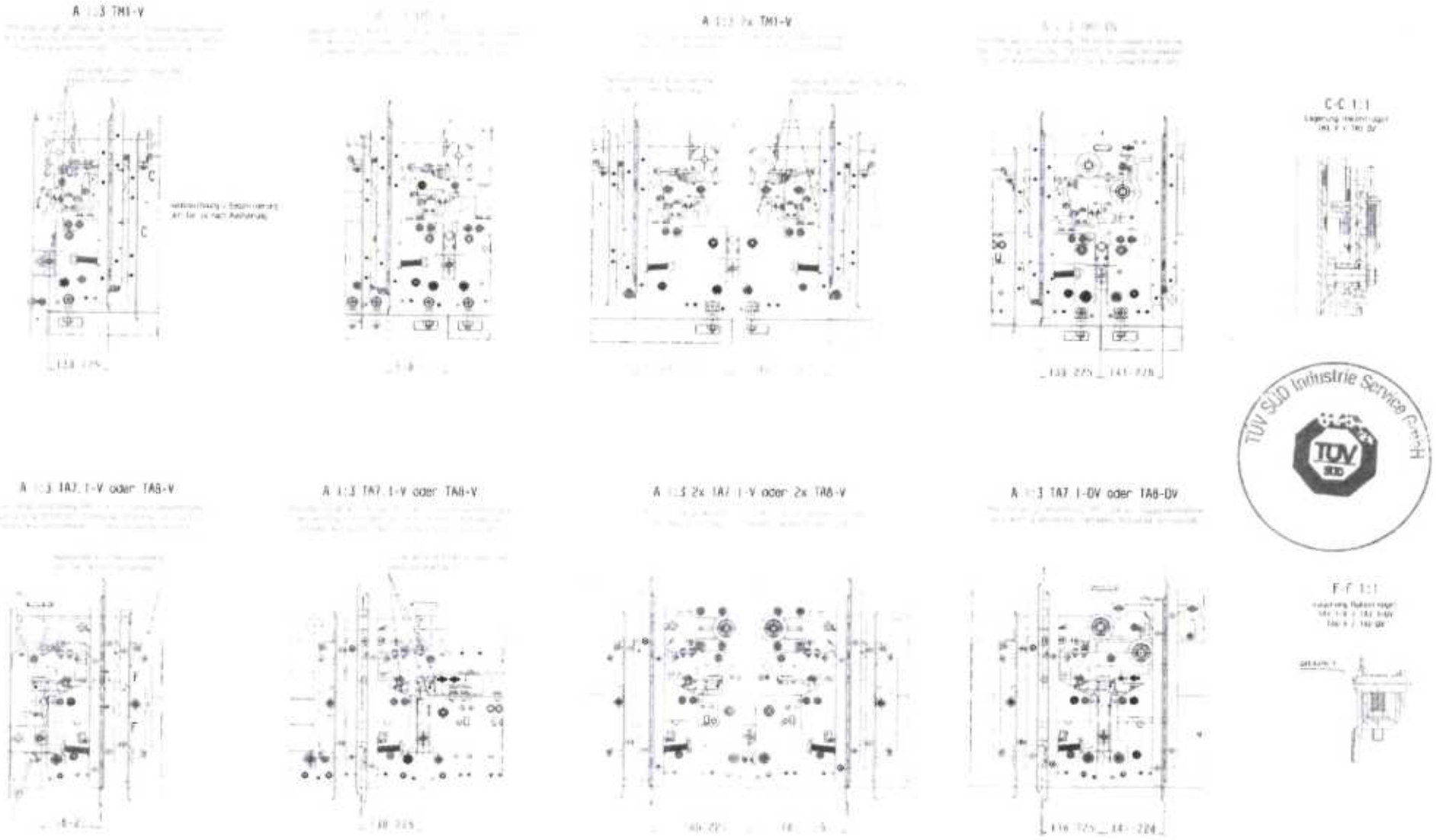
E 1:2
D-D
E-E
F 1:2
TÜV SÜD Industrie Service GmbH
04 JUNI 2018
GEPRÜFT / APPROVED
TÜV SÜD Industrie Service GmbH
Sachverständiger / Expert



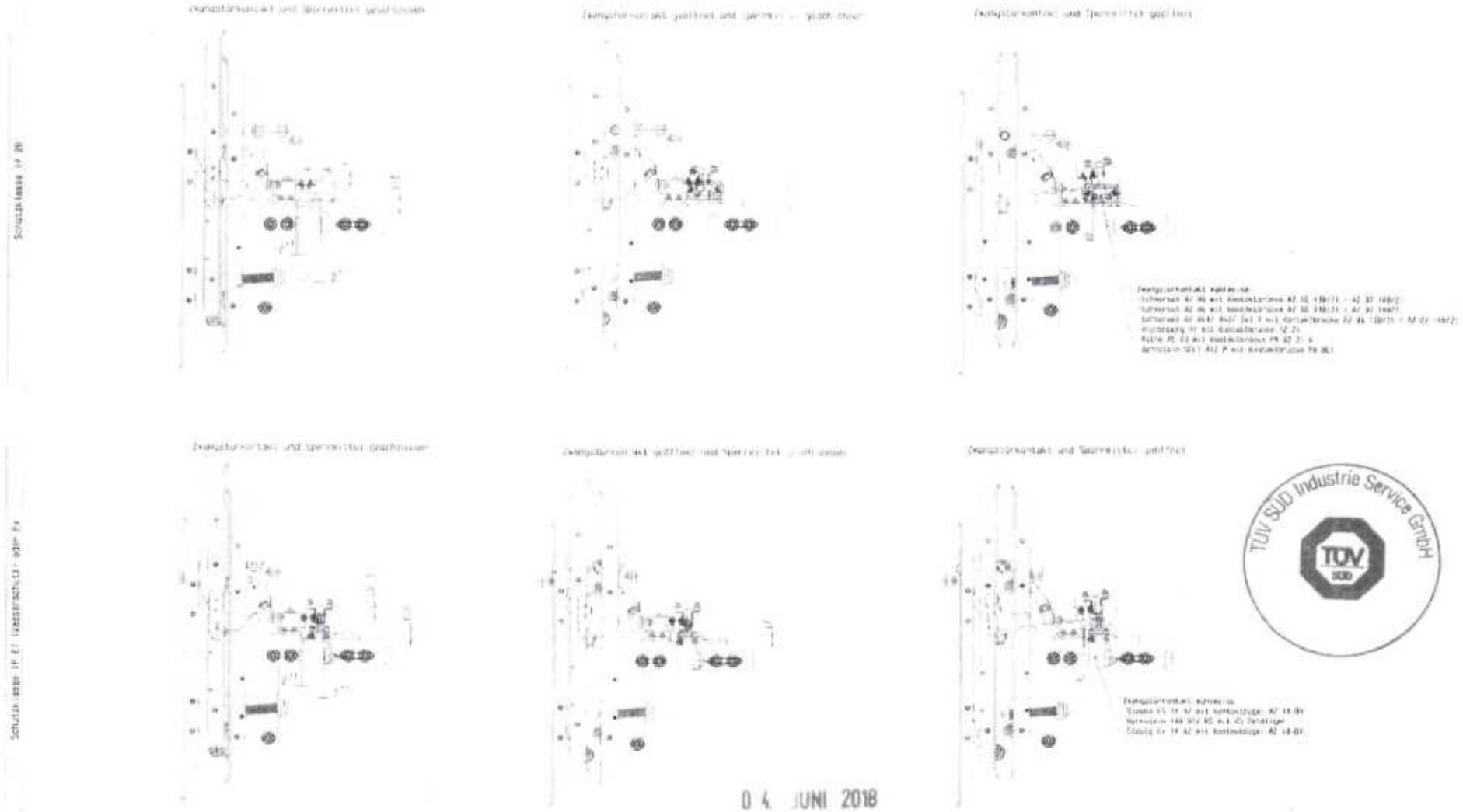
TÜV SÜD Industrie Service GmbH

04. JUNI 2018

GEPRÜFT / APPROVED
TÜV SÜD Industrie Service GmbH
Prüfliberation mit Produkte der Fördertechnik
Westendstraße 199
80686 München
Sachverständige(r) / Expert

MEILLER

Sperrmittel und Kontakteingriff bei TM1-V / TM1-BV



TÜV SÜD Industrie Service GmbH

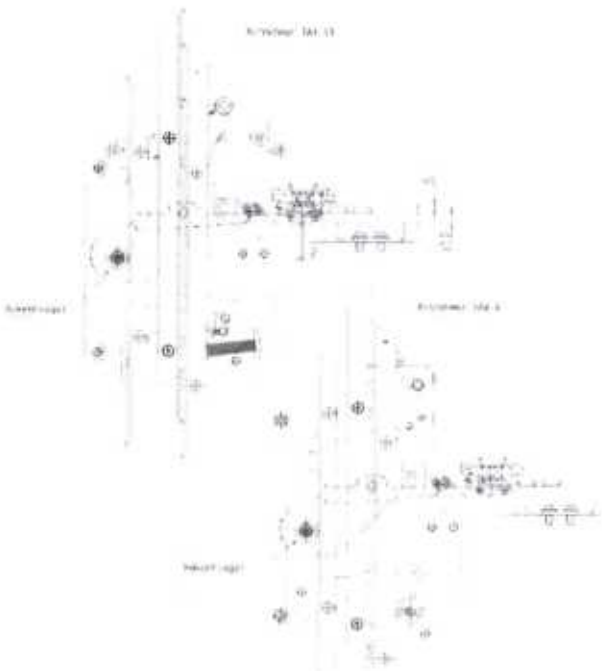
04. JUNI 2018

GEPRÜFT / APPROVED
TÜV SÜD Industrie Service GmbH
Prüflaboratorium für Produkte der Fördertechnik
Westendstraße 199
80686 München
Sachverständige(r) / Expert

Sperrmittel und Kontakteingriff bei TA7 1-V / TA7 1-DV und TA8-V / TA8-DV

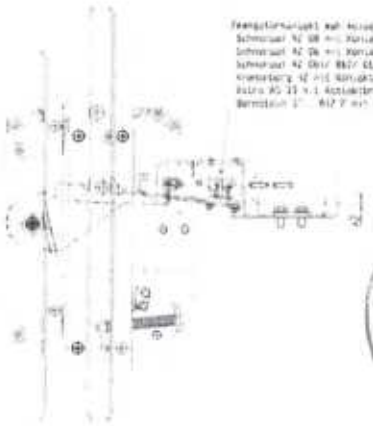
Schutzklasse IP 20

Zwangstürkontakt und Sperrmittel geschlossen



Zwangstürkontakt geöffnet und Sperrmittel geschlossen

Zwangstürkontakt und Sperrmittel geöffnet



Zwangstürkontakt auf Kulisse

Schmorsaal AZ 08 mit Kontaktbrücke AZ 08 (08/21) / AZ 37 (43/21)

Schmorsaal AZ 06 mit Kontaktbrücke AZ 06 (08/21) / AZ 37 (43/21)

Schmorsaal AZ 06 (Ü 06/ 06) mit Kontaktbrücke AZ 06 (08/21) / AZ 37 (43/21)

Kronenberg AZ mit Kontaktbrücke PZ 21

Kulisse AS 23 mit Kontaktbrücke PZ 27 / 6

Bernstein 1 ... AZ 7 mit Kontaktbrücke PZ 08

Hakenriegel TA7 1-V / TA7 1-DV / TA8-V / TA8-DV

TÜV SÜD Industrie Service GmbH

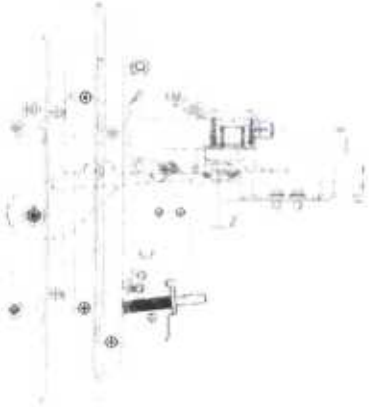
TÜV SÜD

04. JUNI 2018

GEPRÜFT / APPROVED
TÜV SÜD Industrie Service GmbH
Prüflaboratorium für Produkte der Fördertechnik
Westendstraße 199
[illegible] München
Sachverständige(r) / Expert

Schutzklasse IP 67 (Wasserschutz)

Zwangstürkontakt und Sperrmittel geschlossen



Zwangstürkontakt geöffnet und Sperrmittel geschlossen

Zwangstürkontakt und Sperrmittel geöffnet

Zwangstürkontakt

Schmorsaal AZ 15 mit Kontaktbrücke AZ 15 (11/3)

MEILLER

Sperrmittel und Kontaktleiste bei TA7-V / TA7-DV und TA8-V / TA8-DV

Elektroinstallation bei TM1-V / TM1-DV und TA7-V / TA7-DV und TA8-V / TA8-DV (Erdungsklemme)

Schutzklasse (IP 67 Wasserschutz) oder Ex

TÜV SÜD Industrie Service GmbH

04. JUNI 2018

GEPRÜFT / APPROVED
TÜV SÜD Industrie Service GmbH
Prüfabteilung für Produkte der Fördertechnik
Westendstraße 199
80686 München
Sachverständige(r) / Expert

ZERTIFIKAT ◆ CERTIFICATE ◆ 認証証書 ◆ СЕРТИФИКАТ ◆ CERTIFICADO ◆ CERTIFICAT

Industrie Service

Type-examination certificate

Certificate no.:	E58-040/1
Notified body:	TÜV SÜD Industrie Service GmbH Westendstr. 199 80686 München – Germany
Applicant/ Certificate holder:	Meiller Aufzugtüren GmbH Ambossstr. 4 80997 München – Germany
Date of application:	2018-04-16
Manufacturer of the test sample:	Meiller Aufzugtüren GmbH Ambossstr. 4 80997 München – Germany
Product:	Various sliding lift landing doors with the classification E30, E60, E90 and E120 EW30, EW60 and EW 90 as well as EI60 according to EN 81-58:2018
Type:	STS 23 (S-1-R/L), TTS 25 (S-2-R/L), STS 26 (S-2-Z), TTS 28 (S-4-Z), TTS 31 (S-3-R/L) and TTS 32 (S-6-Z)
Test laboratory:	TÜV SÜD Industrie Service GmbH Zentralbereich Fördertechnik Abteilung Aufzüge und Sicherheitsbauteile Gottlieb-Daimler-Str. 7 70794 Filderstadt – Germany
Date and number of the test report:	2018-07-09 E58-040/1
Basis of examination:	EN 81-58:2018
Result:	For the intended use the subject of examination conforms to the requirements of the basis of examination if the respective scope of application as well as the conditions and remarks stated in the annex to this type-examination certificate are kept.
Validity:	This certificate is valid in conjunction with the test certificate issued after each production control until the date mentioned in it.
Date of issue:	2018-07-09

Certification Body "lifts and cranes"

Bernd Gründling

TÜV SÜD Industrie Service GmbH Certification Body

Note:
TÜV SÜD Industrie Service GmbH is also notified according to the Lift Directive 2014/33/EU, Identification number 0036

TÜV®

Annex to the type-examination certificate
no. E58-040/1 dated 2018-07-09

Industrie Service

1 Scope of application

Various sliding lift landing doors of the door generation 3 tested according EN 81-58:2018.

Landing door	Clear door height [mm]	Clear door width [mm]	Class acc. EN 81-58, clause 17
STS 23 (S-1-R/L)			
Steel door panel Double-skin	max. 2300	700 – 1000	E120, EW60
TTS 25 (S-2-R/L)			
Steel door panel Single-skin with insulation	max. 2645	700 – 1700	E120, EW60, EI60
Steel door panel Double-skin	max. 3500 [1,3]	700 – 1700 [3]	E120
	max. 2645 [3]	700 – 1560 [3]	E120, EW90
Steel door panel Double-skin Portal version	max. 2500 [3]	700 – 1600 [3]	E120, EW30
Steel door panel Double-skin with vision panel	max. 2445	700 – 1500	E90
Framed glass door panel MGT 99	max. 2200	1050 – 1400	E60
	max. 2530	600 – 1040	E90
STS 26 (S-2-Z)			
Steel door panel Single-skin with insulation	max. 2645	700 – 1700	E120, EW60, EI60
Steel door panel Double-skin	max. 3500 [1,3]	700 – 1700 [3]	E120
	max. 2645 [3]	700 – 1560 [3]	E120, EW90
Steel door panel Double-skin Portal version	max. 2500	700 – 1400	E120, EW30
Steel door panel Double-skin with vision panel	max. 2445	700 – 1500	E90
Framed glass door panel MGT 99	max. 2500	600 – 1500	E30
	max. 2415	600 – 1430	E120
	max. 2100	600 – 1100	E120, EW30

Annex to the type-examination certificate no. E58-040/1 dated 2018-07-09

Industrie Service

Landing door	Clear door height [mm]	Clear door width [mm]	Class acc. EN 81-58, clause 17
TTS 28 (S-4-Z)			
Steel door panel Single-skin with insulation	max. 2645	700 – 3000	E120, EW60, EI60
Steel door panel Double-skin	max. 3500 [1,4]	700 – 3000 [4]	E120
	max. 2645 [4]	700 – 3120 [4]	E120, EW90
Steel door panel Double-skin Portal version	max. 2500 [4]	700 – 1800 [4]	E120, EW30
Steel door panel Double-skin with vision panel	max. 2445	1000 – 2800	E90
Framed glass door panel MGT 99	max. 2530	1100 – 2080	E90
TTS 31 (S-3-R/L)			
Steel door panel Single-skin with insulation	max. 2645	700 – 2000	E120, EW60, EI60
Steel door panel Double-skin	max. 3500 [1]	700 – 2000	E120
	max. 2645	700 – 2340	E120, EW90
Steel door panel Double-skin Portal version	max. 2500	700 – 1800	E120, EW30
Steel door panel Double-skin with vision panel	max. 2445	750 – 1800	E90
Framed glass door panel MGT 99	max. 2530	700 – 1560	E90

Landing door	Clear door height [mm]	Clear door width [mm]	Class acc. EN 81-58, clause 17
TTS 32 (S-6-Z)			
Steel door panel Single-skin with insulation	max. 2645	1050 – 3500	E120, EW60, EI60
Steel door panel Double-skin	max. 3500 [1]	1050 – 3500	E120, EW30 [2]
Steel door panel Double-skin with vision panel	max. 2445	1500 – 3300	E90
Framed glass door panel MGT 99	max. 2530	1700 – 3120	E90

Table 1 Classification acc. EN 81-58:2018, clause 17

1 For door heights of more than 2645 mm it must be provided with an intumescent seal (insulating layer former) within the vertical and horizontal interlocks.

2 The EW30 criteria no longer applies to doors with wall openings greater than 2400 mm height x 2200 mm width.

3 For the door type "Kompakt" the max. clear door height of 2300 mm and the max. clear door width of 1400 mm may not exceed.

4 For the door type "Kompakt" the max. clear door height of 2300 mm and the max. clear door width of 2400 mm may not exceed.

2 Conditions

2.1 The construction of the landing doors must correspond to the report, assessments and range reports of the verified samples. This structural conformity of the landing doors must be confirmed by a declaration from the manufacturer.

2.2 The landing doors shall be fixed according to the assembly instructions of the manufacturer and in conformity with the fixing of the test samples.

2.3 The dimensions of the frames for niche installation (EvoN) must be within the following range:

- Frame width = 60 – 200 mm (for EI60: 60 – 100 mm);
- Frame height = 50 – 220 mm (for EI60: 50 – 100 mm);
- Frame depth = 23 – 126 mm (for STS 26: 23 – 100 mm)

2.4 The dimensions of the frames for shaft installation (EvoS) must be within the following range:

- Frame width = 60 – 200 mm (for EI60: 120 mm);
- Frame height = Lintel height;
- Frame depth = 23 – 126 mm (for STS 26: 23 – 100 mm)

2.5 The size of the gaps and overlapping must correspond to the details of the assembly instructions of the manufacturer.

2.6 For sliding sliding doors in portal version (full facade front portal), the dimensions must be selected within the following ranges:

- Frame height (ZH) = Lintel height (KH) = max. 660 mm;
- Frame width closing side (ZBS) = Frame width Right/Left (ZBR/L) = 60 – 1290 mm;
- Clear door width (A) and Clear door hight (H) = max. 3000 mm
  (Für EW30: Clear door width (A) = max. 2300 mm and Clear door hight (H) = max. 2600 mm)