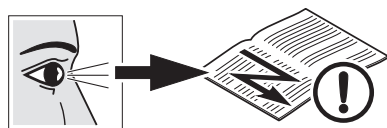
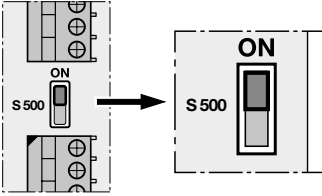


	DE	BK FU Z Schalt- / Verdrahtungsplan
x	EN	BK FU Z Wiring diagramme
	FR	BK FU Z Instructions de paramétrage
	NL	BK FU Z Installatie- / bedradingschema
	ES	BK FU Z Plano de distribución / cableado
	IT	BK FU Z Schema elettrico di cablaggio
	PT	BK FU Z Esquema de circuitos e cabos

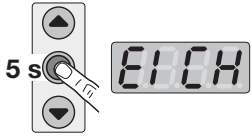


1 Initial start-up with TST PD multi-turn absolute encoder

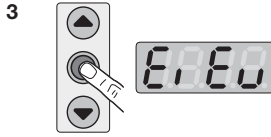
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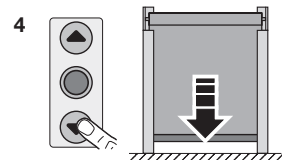
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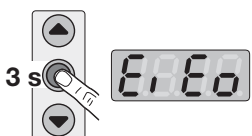
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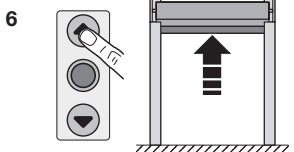
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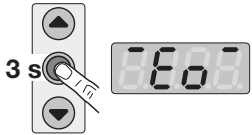
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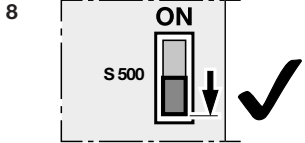
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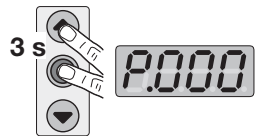


8




2 Fine adjustment of the travel limits


1



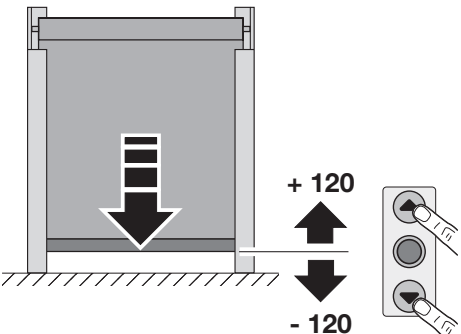
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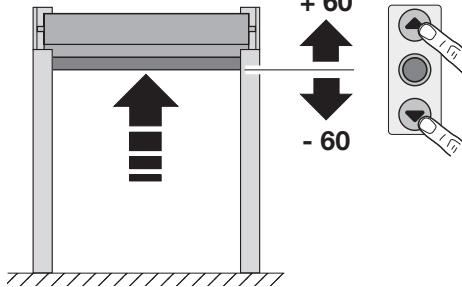
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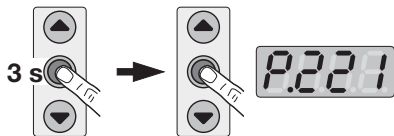
3a



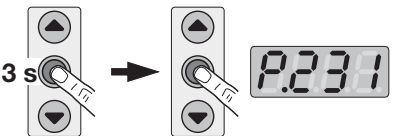
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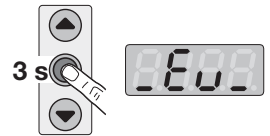
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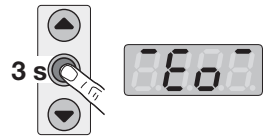
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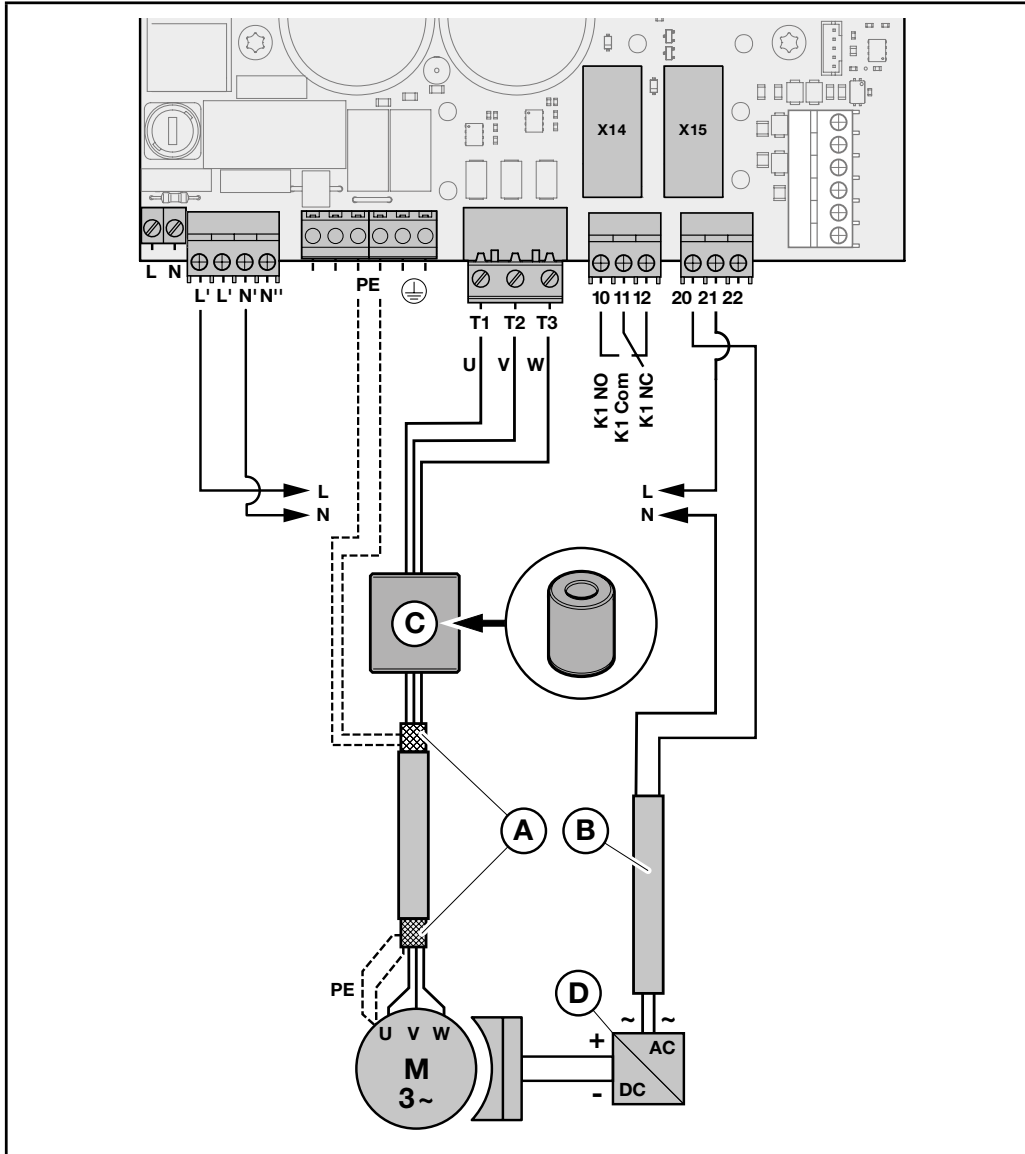
5a



5b



3 Motor connection / outputs



X14	Output relay – Function as ordered – Standard: Door in upper end-of-travel position	B	Connection cable with brake and limit switch connection	Connection example: Brake
X15	Brake relay	C	Ferrite sleeve	
A	Motor cable shielding	D	Brake rectifier	

To ensure fault-free operation of the BK FU Z operator control, use the supplied motor cable. You may only lead the wires of the motor connection through this cable. You must connect the shield of the motor cable on both sides. After shortening the cables, you must reconnect the cable shields. Double-insulate the joints.

BK FU Z

High-speed door

H025-001

EN

main supply	230V - 50/60Hz
connecting lead	min. 3x2,5mm ²
control voltage	24V
year of manufacture	2024ff



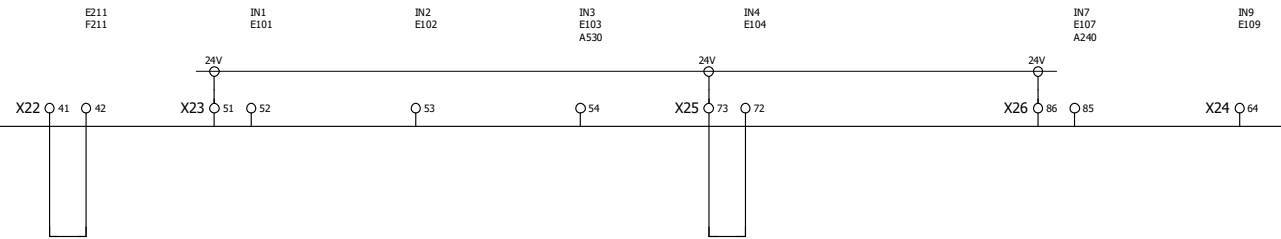
Subject to technical changes!

date	29.11.2024		modification	20.05.2025	title page		H025-001
Bearb.	TOBIAS.WILKE			TW			Blatt
Gepr.	TW				Kom.	HÖRMANN	1
							Gesamt
							14

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14	parts list		09.05.2025	TW

3A1 circuit board



X21A	BK
X21B	OR
X21C	GN
X22	BK
X24A	GN
X24B	GN
X26	BK
X23/X25	RD

Emergency stop 1

impulse down

no photocell 2
for jumper

intermediate stop

option

option

impulse up

impulse operation

reserve

3

5

date	29.11.2024		modification	20.05.2025	impulse device	HÖRMANN	H025-001	
Bearb.	TOBIAS.WILKE		TW					
Gepr.	TW				Kom.			
							Blatt	4
							Gesamt	14

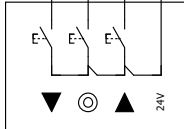
3A1 circuit board

E000/E050/E090

X502

W5S1
Flach_757
4x0,14 mm²
keyboard

5S1

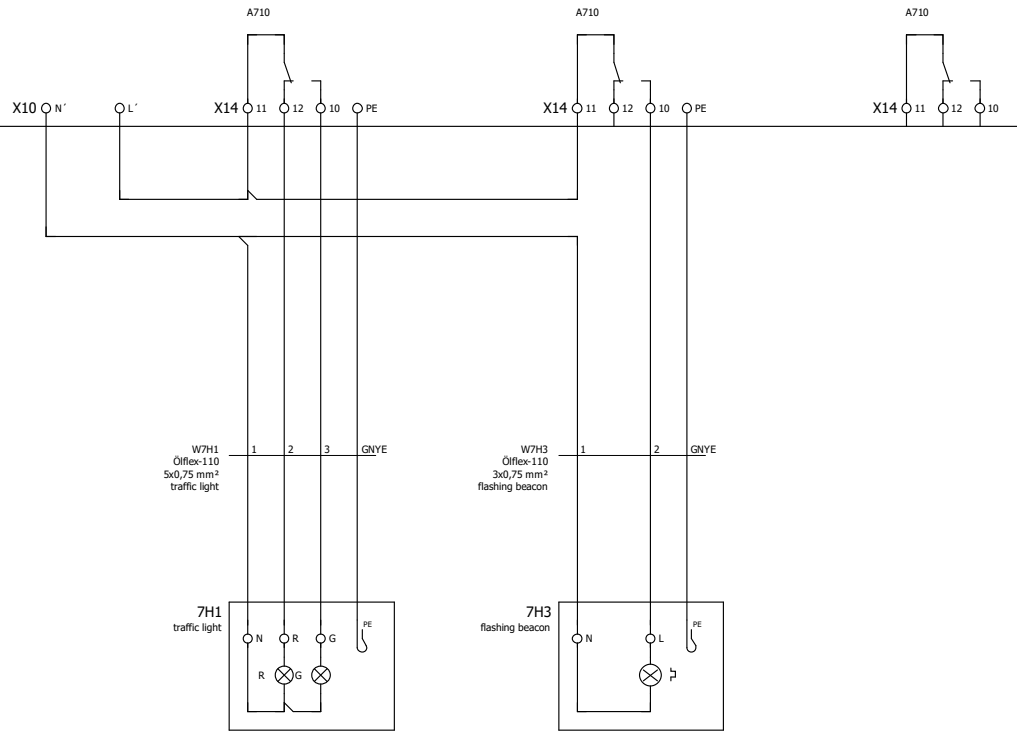


keyboard

4									6
date	29.11.2024		modification	20.05.2025	impulse device				H025-001
Bearb.	TOBIAS.WILKE			TW					Blatt
Gepr.	TW				Kom.				5
									Gesamt
									14



3A1 circuit board



traffic light

flashing beacon

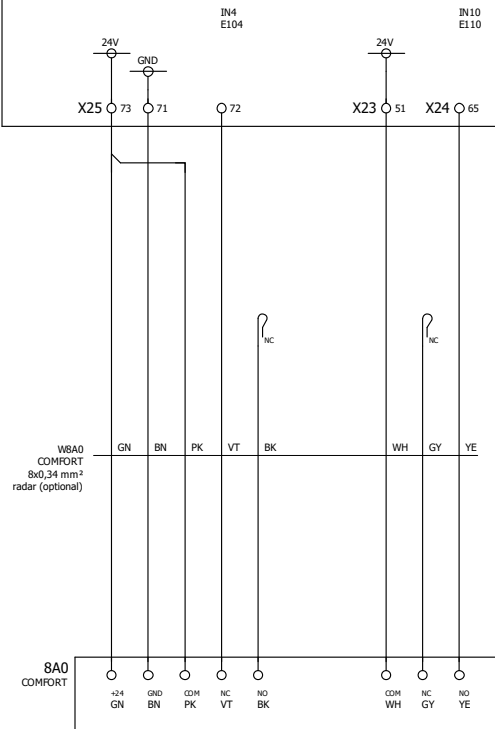
door open signal

option

option

option

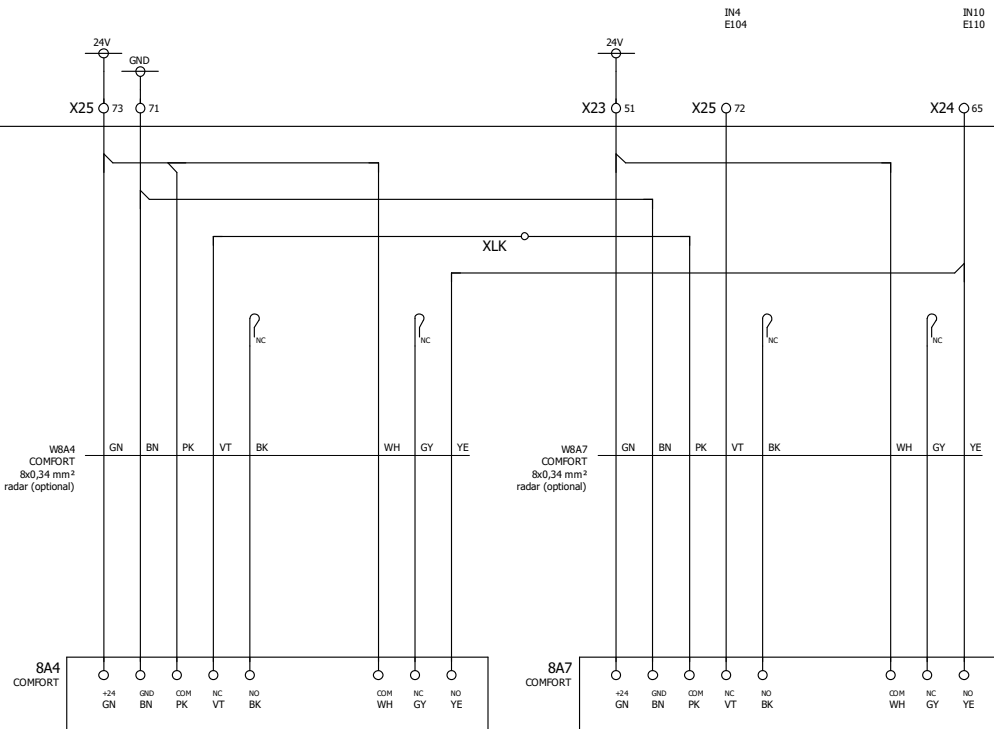
3A1 circuit board



1 x COMFORT

radar

option



2 x COMFORT

radar

option

radar

option

7

9

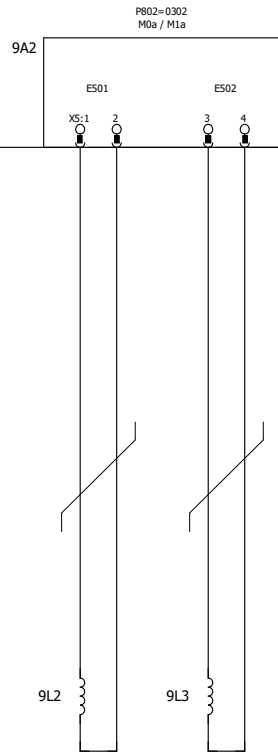
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Bearb.	TOBIAS.WILKE		TW	
Gepr.	TW			Kom.



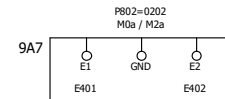
H025-001

Blatt	8
Gesamt	14

3A1 circuit board



induction loops



radio receiver

8

10

date	29.11.2024		modification	20.05.2025	option			H025-001
Bearb.	TOBIAS.WILKE			TW				Blatt 9
Gepr.	TW				Kom.			Gesamt 14

HÖRMANN

0	1	2	3	4	5	6	7	8	9
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9									11	
date	29.11.2024		modification	20.05.2025	blank page					H025-001
Bearb.	TOBIAS.WILKE			TW						Blatt 10
Gepr.	TW				Kom.					Gesamt 14
					HÖRMANN					

cable overview

cable designation	from	to	cable Type	wires	Ø	length	function text
W0	X0	X01	H07RN-F	3	1,5		connecting lead
W1	3A1-X13	3M4	LIYCY-JZ	4	1,5		motor cable
W2	3A1-X10	3M4-3T4	Ölflex-110	5	0,75		control cable
	3A1-X15	3M4					
	3A1-X20						
W3	3A1-X24	6X3	HK-SO-LIYCY	9	0,34		patch panel
	3A1-X26						
	3A1-X25						
	3A1-X20						
W5S1	3A1-X502	5S1	Flach_757	4	0,14		keyboard
W7H1	3A1-X10	7H1	Ölflex-110	5	0,75		traffic light
	3A1-X14						
W7H3	3A1-X10	7H3	Ölflex-110	3	0,75		flashing beacon
	3A1-X14						
W8A0	3A1-X25	8A0	COMFORT	8	0,34		radar (optional)
	3A1-X23						
	3A1-X24						
W8A4	XLK	8A4	COMFORT	8	0,34		radar (optional)
	3A1-X25						
	3A1-X24						
W8A7	XLK	8A7	COMFORT	8	0,34		radar (optional)
	3A1-X25						
	3A1-X23						
	3A1-X24						
WBK1			LiFY-0	4	0,25		impulse device
WBK2			LiFY-0	4	0,25		=

cable overview

cable designation	from	to	cable Type	wires	Ø	length	function text
WBU			LifYY-0	4	0,25		photo grille receiver
WRD			LifYY-0	4	0,25		door monitoring switch
WWH			LifYY-0	4	0,25		photo grille transmitter
WYE			LifYY-0	4	0,25		position encoder Multiturn

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date	29.11.2024		modification	20.05.2025	cable overview	HÖRMANN	H025-001	
Bearb.	TOBIAS.WILKE			TW			Blatt	12
Gepr.	TW				Kom.		Gesamt	14

parts list

NAME WIRING DIAGRAMME LOCATION	AMOUNT	DESIGNATION	MODEL NUMBER ORDER	ARTICLE NUMBER	
3A1 3.0	1	Torsteuerung 1-phasig; 1,2KW ohne Not-Aus / ohne Hauptschalter	BK FUZ 4163.000.00	024349	
3A1-9A2 9.2	1	Induktionsschleifendetektor 1-Kanal	TST SUVEK1	800256 157295	
3A1-9A2 9.2	1	Induktionsschleifendetektor 2-Kanal	TST SUVEK2	800257 157296	
3A1-9A7 9.7	1	Platine Funkempfänger 868MHz BiSecur	HET-E2-868BS	022265 4511819	
8A0 8.0	1	Radar & Präsenzmelder	COMFORT	014862 4990602	
8A0 8.0	1	Radar & Präsenzmelder	COMFORT Mini	800195 4991303	
8A4 8.4	1	Radar & Präsenzmelder	COMFORT	014862 4990602	
8A4 8.4	1	Radar & Präsenzmelder	COMFORT Mini	800195 4991303	
8A7 8.7	1	Radar & Präsenzmelder	COMFORT	014862 4990602	
8A7 8.7	1	Radar & Präsenzmelder	COMFORT Mini	800195 4991303	
6B7 6.7	1	Lichtgitter TypT F 8 Länge 2510mm	SGT(R) 16-251-023-F1-U-02-0.6-T4/SE	024162	
6B7 6.7	1	Lichtgitter TypT F 8 Länge 2330mm	SGT(R) 16-251-023-F1-U-02-0.6-T4/SE	024346	
6B7 6.7	1	Lichtgitter TypT F 8 Länge 2150mm	SGT(R) 16-215-021-F1-U-02-0.6-T4/SE	024347	
6B7 6.7	1	Lichtgitter TypT F 8 Länge 1970mm	SGT(R) 16-197-020-F1-U-02-0.6-T4/SE	024348	
7H1 7.3	1	Ampelgehäuse LED 230VAC rot/grün	637537	800280 637537	
7H1 7.3	1	Ampelgehäuse LED 230VAC Rot	637534	800291 637534	
7H3 7.4	1	Blitzleuchte orange		800261 159066	
7H3 7.4	1	Blitzleuchte rot		800255 159782	

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date	29.11.2024	modification	09.05.2025	parts list	HÖRMANN	H025-001	
Bearb.	TOBIAS.WILKE		TW			Blatt	13
Gepr.	TW			Kom.		Gesamt	14

parts list

NAME WIRING DIAGRAMME LOCATION	AMOUNT	DESIGNATION	MODEL NUMBER ORDER	ARTICLE NUMBER	
3K7 3.7	1	Ferrithülse FUE-1		022835 4982023	
3M4-3T4 3.4	1	Einweg-Gleichrichter	K62/K75	024510 7992625	
5S1 5.1	1	Folientastatur 155,3x119,6mm mit Fenster	805349	014142 306421	
6S0 6.0	1	Pilztaster / Grobhandtaster	PG8M9W10	800222 159764	
6S1 6.1	1	Zugschalter mit Kabel Snap M8, 4-polig, Länge 15000mm		018261 4991969	
TST PD 6.7	1	Positionsgeber Multiturn	TST PD2-RD 6043.000.00	023418 4982215	
6X3 6.3	1	Verteiler 6-fach M8 snap 3 Länge 3500mm	6I/OS8-4P0C-3,5/S5252	024303	
6X3 6.3	1	Verteiler 6-fach M8 snap 3 Länge 6500mm	6I/OS8-4P0C-6,5/S5252	024304	
6X3 6.3	1	Verteiler 6-fach M8 snap 3 Länge 10500mm	6I/OS8-4P0C-10,5/S5252	024305	
6X3 6.3	1	Verteiler 6-fach M8 snap 3 Länge 15500mm	6I/OS8-4P0C-15,5/S5252	024306	
6X3 6.3	1	Verteiler 6-fach M8 snap 3 Länge 20500mm	6I/OS8-4P0C-20,5/S5252	024307	

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Gepr.	TW			Kom.		Gesamt	14