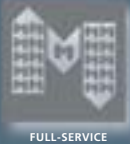


Spare part price list Dynamic

Operator systems for industrial doors



FULL-SERVICE



OPERATOR SYSTEMS
FOR GARAGE DOORS



OPERATOR SYSTEMS
FOR SECTIONAL DOORS



OPERATOR SYSTEMS
FOR SLIDING GATES



OPERATOR SYSTEMS
FOR HINGED GATES



OPERATOR SYSTEMS
FOR ROLLER SHUTTERS



PARC BARRIER
SYSTEMS



ELECTRONIC
CONTROL UNITS



PRODUCT SERVICE



ACCESSORIES

Marantec

Door operators > automatically the best choice

Terms of payment:

All prices are in Euro, ex works ex VAT
Freight, postage and costs for packaging will be added to the price.

This list supersedes and invalidates
all previous dealer price lists.

Dynamic 111 - 228

Dynamic 300 - 301

WA 100 / ITO 100

Operator systems for sectional doors

1

Dynamic 3

WA 200

Operator systems for sectional doors

2

Dynamic 400 - 404

Operator systems for roller shutter doors

3








Control units and accessories

4

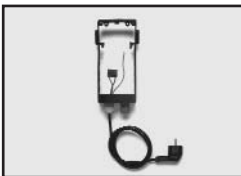


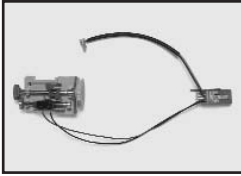
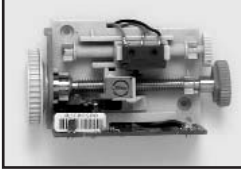
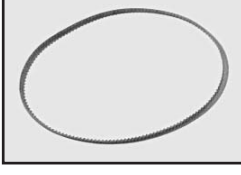

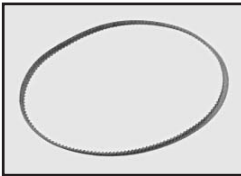
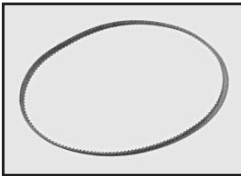
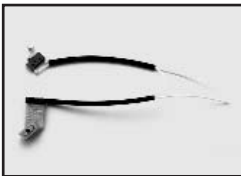
Closing edge safety devices

5

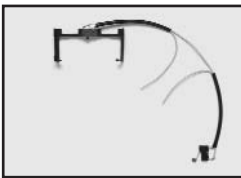




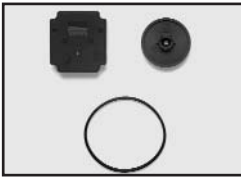

Spare part price list Dynamic 111-228 / Dynamic 300-301 / WA 100 / ITO 100

Description							
Dynamic	111-118 END	221-228 END	121-128 REF	211-218 REF	300-301 REF		
Control unit Control	110	22-23	40-41/44-45 144-145 (N) 120-123	14-15 (N)	40-41/44-45 144-145 (N) 120-123		
WA 100	Limit switch	Limit switch	REF	REF	ITO 100 REF		
Control unit A/B	100	40	60 (N) 300	45 (N)	60 (N) 300		
Article						Article no.	Price each
 Cover spindle limit switch complete clear housing	x		x		x	150 165	€ 12,00
 Housing for spindle limit switch	x		x			564 059	€ 3,00
 Housing for spindle limit switch for controlled quick release	x		x			150 989	€ 21,00
 Control unit 'dead-man's mode' operator systems		x		x		8 003 389	€ 9,00
 Housing cover integrated control unit		x		x		8 003 137	€ 9,00
 Additional cover integrated control unit		x		x		8 003 358	€ 18,00
 Additional cover with CEE-plug 400 V		x		x		153 976	€ 27,00

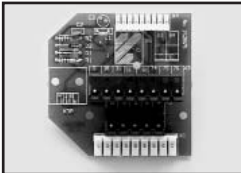
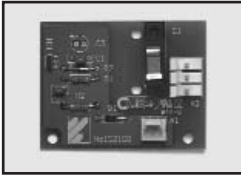
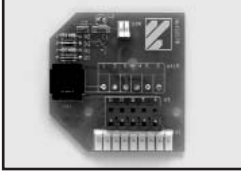


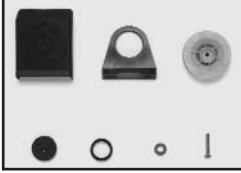
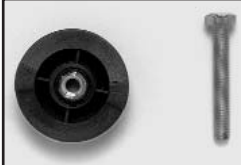
Spare part price list Dynamic 111-228 / Dynamic 300-301 / WA 100 / ITO 100

Description							
Dynamic	111-118 END	221-228 END	121-128 REF	211-218 REF	300-301 REF		
Control unit Control	110	22-23	40-41/44-45 144-145 (N) 120-123	14-15 (N)	40-41/44-45 144-145 (N) 120-123		
WA 100	Limit switch	Limit switch	REF	REF	ITO 100 REF		
Control unit A/B	100	40	60 (N) 300	45 (N)	60 (N) 300		
Article						Article no.	Price each
 Additional cover with plug 230 V		x		x		153 978	€ 22,00
 Spindle limit switch with reverse function for limit switch operator / control unit	x		x			150 029	€ 66,00
 Spindle limit switch reference point direction standard			x	x	x	152 515	€ 32,00
 Spindle limit switch reference point direction left			x	x	x	8 051 652	€ 32,00
 Cable set with reference point switch				x		8 052 683	€ 30,00
 Spindle limit switch with integrated control unit direction standard		x				152 514	€ 72,00
 Spindle limit switch with integrated control unit direction left		x				8 051 768	€ 72,00
 Drive belt for spindle limit switch T 2,5/380 /4 mm	x		x	x	x	563 454	€ 11,00
 Drive belt for spindle limit switch T 2,5/420/ 4 mm		x				8 003 675	€ 11,00
 Micro limit switch till 06/2001 emergency chain/ maintenance release and emergency chain/ controlled quick release	x		x			152 506	€ 21,00

Spare part price list Dynamic 111-228 / Dynamic 300-301 / WA 100 / ITO 100




Description								
Dynamic	111-118 END	221-228 END	121-128 REF	211-218 REF	300-301 REF			
Control unit Control	110	22-23	40-41/44-45 144-145 (N) 120-123	14-15 (N)	40-41/44-45 144-145 (N) 120-123			
WA 100	Limit switch	Limit switch	REF	REF	ITO 100 REF			
Control unit A/B	100	40	60 (N) 300	45 (N)	60 (N) 300			
Article						Article no.	Price each	
 Micro limit switch emergency chain/ maintenance release and emergency chain/ controlled quick release			x			8 054 938	€ 21,00	
 Micro limit switch quick release	x		x			152 504	€ 15,00	
 Micro limit switch till 06/2001 emergency chain re-positioning		x	x			152 505	€ 20,00	
 Micro limit switch from 07/2001 emergency chain re-positioning		x	x	x		8 054 937	€ 20,00	
 Cable insert complete	x		x		x	150 432	€ 16,00	
 Retrofit kit speed sensor	x		x			152 138	€ 62,00	
 Circuit board RPM with hall sensor from 9.8.1993	x		x			152 075	€ 49,00	

Spare part price list Dynamic 111-228 / Dynamic 300-301 / WA 100 / ITO 100

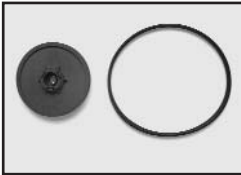

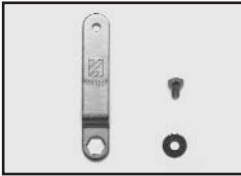


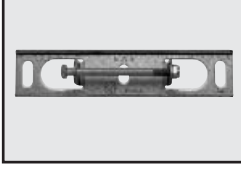

Description								
Dynamic	111-118 END	221-228 END	121-128 REF	211-218 REF	300-301 REF			
Control unit Control	110	22-23	40-41/44-45 144-145 (N) 120-123	14-15 (N)	40-41/44-45 144-145 (N) 120-123			
WA 100	Limit switch	Limit switch	REF	REF	ITO 100 REF			
Control unit A/B	100	40	60 (N) 300	45 (N)	60 (N) 300			
Article							Article no.	Price each
 Circuit board RPM 1/2 open function with hall sensor from 9.8.1993	x		x				152 124	€ 57,00
 Circuit board RPM reference point				x			152 168	€ 67,00
 Circuit board RPM reference point			x		x		152 370	€ 54,00
 Disengaging device quick release / controlled quick release	x		x				72 230	€ 20,00
 Emergency chain device w/o re-positionung device pre-assembled cpl. till 06/2001 only in connection with 66 835	x	x	x				152 488	€ 20,00
 Retrofit kit for gear motors till 06/2001 only in connection with 152 488	x	x	x				66 835	€ 15,00
 Transmission emergency chain	x	x	x	x			150 993	€ 4,00

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Spare part price list Dynamic 111-228 / Dynamic 300-301 / WA 100 / ITO 100


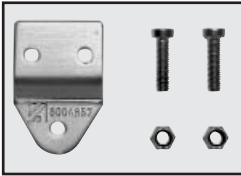
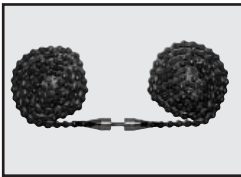


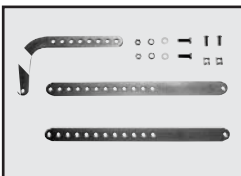
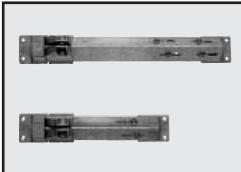
Description								
Dynamic	111-118 END	221-228 END	121-128 REF	211-218 REF	300-301 REF			
Control unit Control	110	22-23	40-41/44-45 144-145 (N) 120-123	14-15 (N)	40-41/44-45 144-145 (N) 120-123			
WA 100	Limit switch	Limit switch	REF	REF	ITO 100 REF			
Control unit A/B	100	40	60 (N) 300	45 (N)	60 (N) 300			
Article							Article no.	Price each
 Emergency chain device with re-positioning device from 07/2001		x	x	x			8 054 940	€ 35,00
 Connection part emergency chain for re-positioning device pre-assembled		x	x	x			8 054 936	€ 10,00
 Sprocket emergency chain w. insert	x	x	x	x			562 456	€ 7,00
 Chain guard emergency chain	x	x	x	x			562 537	€ 6,00
 Chain guide emergency chain	x	x	x	x			150 164	€ 6,00
 Brake ventilation complete	x	x	x	x			150 433	€ 10,00
 V-notch ripped belt 4 P J 381 4 P J 432	x	x	x	x			150 781	€ 20,00
					x		8 004 029	€ 27,00

Spare part price list Dynamic 111-228 / Dynamic 300-301 / WA 100 / ITO 100

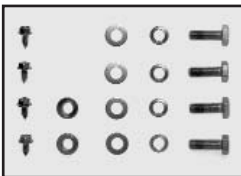






Description								
Dynamic	111-118 END	221-228 END	121-128 REF	211-218 REF	300-301 REF			
Control unit Control	110	22-23	40-41/44-45 144-145 (N) 120-123	14-15 (N)	40-41/44-45 144-145 (N) 120-123			
WA 100	Limit switch	Limit switch	REF	REF	ITO 100 REF			
Control unit A/B	100	40	60 (N) 300	45 (N)	60 (N) 300			
Article							Article no.	Price each
 Retrofit kit pulley ring magnet 16 RPM 19 RPM 24 RPM 45 RPM								
			x	x	x		69 122	€ 18,00
			x	x	x		46 048	€ 21,00
			x	x	x		46 049	€ 25,00
						x	46 765	€ 30,00
 Accessory set emergency chain/ quick release	x	x	x	x			8 052 917	€ 8,00
 Lever quick release		x		x			8 003 249	€ 4,00
 Maintenance release kit			x				152 323	€ 19,00
 Maintenance release kit		x		x			154 768	€ 13,00
 Lintel connection plate complete					x		46 115	€ 10,00
 Deflection roller unit complete					x		46 123	€ 18,00

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Spare part price list Dynamic 111-228 / Dynamic 300-301 / WA 100 / ITO 100

Description							
Dynamic	111-118 END	221-228 END	121-128 REF	211-218 REF	300-301 REF		
Control unit Control	110	22-23	40-41/44-45 144-145 (N) 120-123	14-15 (N)	40-41/44-45 144-145 (N) 120-123		
WA 100	Limit switch	Limit switch	REF	REF	ITO 100 REF		
Control unit A/B	100	40	60 (N) 300	45 (N)	60 (N) 300		
Article						Article no.	Price each
 Carriage						x 45 379	€ 49,00
 Screwing plate complete						x 46 124	€ 10,00
 Drive chain complete rail 1 rail 2 rail 3						x 8 055 018	€ 88,00
						x 8 055 019	€ 104,00
						x 8 055 020	€ 132,00
 Sprocket unit complete						x 46 128	€ 45,00
 Drive shaft assembly complete						x 45 374	€ 42,00
 Door link complete						x 46 129	€ 39,00
 Mounting support long short						x 151 180	€ 21,00
						x 151 179	€ 16,00

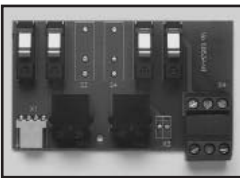
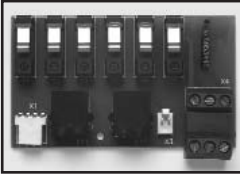
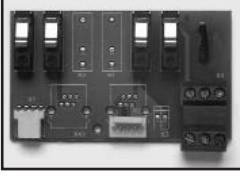
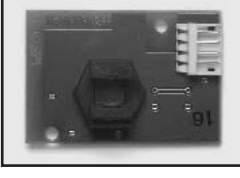

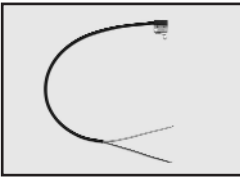

Spare part price list Dynamic 111-228 / Dynamic 300-301 / WA 100 / ITO 100

Description							
Dynamic	111-118 END	221-228 END	121-128 REF	211-218 REF	300-301 REF		
Control unit Control	110	22-23	40-41/44-45 144-145 (N) 120-123	14-15 (N)	40-41/44-45 144-145 (N) 120-123		
WA 100	Limit switch	Limit switch	REF	REF	ITO 100 REF		
Control unit A/B	100	40	60 (N) 300	45 (N)	60 (N) 300		
Article						Article no.	Price each
 Screw set support plate motor					x	45 375	€ 16,00
 Chain connector					x	8 004 727	€ 16,00
 Motor WA 100 0,18/25,0 19-70, 400 V emergency chain/ maintenance release IP 65 R			x A 60 N			8 054 797	€ 413,00
 Motor WA 100 0,18/25,0 24-55, 400 V emergency chain/ maintenance release IP 65 R			x A 60 N			8 054 805	€ 413,00
 Motor WA 100 0,14/25,0 24-35, 230 V emergency chain/ maintenance release IP 65 R			x B 60 N			8 054 857	€ 389,00
 Motor WA 100 0,14/25,0 24-35, 230 V emergency chain/ maintenance release IP 65 R				x B 45 N		8 054 573	€ 460,00
 Motor ITO 100-45 400 V, IP 65					x A 60 N/300	45 509	€ 328,00








Delivery of further WA 100 types upon request.

valid from 01. August 2005



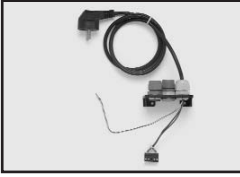
Spare part price list Dynamic 3 / WA 200

Description								
Dynamic	3-1xx END	3-22x END	3-1xx	3-21x REF	3-11x FU REF			
Control unit Control	External control	22-23	74-75 END 144-145 (N) REF	24-25 (N)	145 FU/ 145 FU-S 144-145 (N)			
WA 200					WA 200			
Control unit B					60 FU			
Article						Article no.	Price each	
	Circuit board final position system plug				x (only FU-S)	8 053 448	€ 67,00	
	Circuit board final position FU system plug				(not FU-S)	8 053 667	€ 80,00	
	Circuit board final position Control 22/23		x			8 053 449	€ 67,00	
	Circuit board for RPM Dynamic 3			x	x	8 050 624	€ 51,00	
	Circuit board connection external control	x				61 449	€ 32,00	
	Micro switch emergency chain	x	x	x	x	8 051 208	€ 6,00	
	Emergency chain complete incl. counter pinion motor	x	x	x	x	8 053 589	€ 61,00	

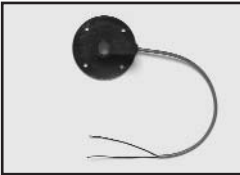
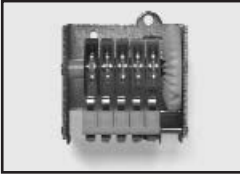
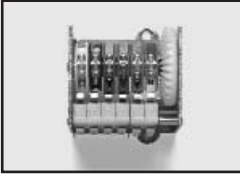

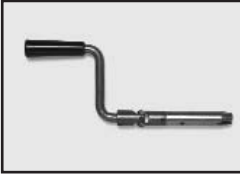
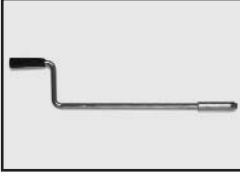
Spare part price list Dynamic 3 / WA 200

Description							
Dynamic	3-1xx END	3-22x END	3-1xx	3-21x REF	3-11x FU REF		
Control unit Control	External control	22-23	74-75 END 144-145 (N) REF	24-25 (N)	145 FU/ 145 FU-S 144-145 (N)		
WA 200					WA 200		
Control unit B					60 FU		
Article						Article no.	Price each
 Cover notched limit switch emergency chain	x		x			63 048	€ 15,00
 Cover notched limit switch emergency chain/ maintenance release	x		x			62 349	€ 15,00
 Cover notched limit switch quick release	x		x			8 054 227	€ 15,00
 Control unit cover pre-assembled emergency chain		x		x	x	8 053 637	€ 15,00
 Control unit cover pre-assembled emergency chain/ maintenance release		x		x	x	8 053 638	€ 15,00
 Control unit cover pre-assembled quick release / controlled quick release		x		x	x	62 324	€ 15,00
 Cable cover	x		x			8 051 733	€ 6,00

Spare part price list Dynamic 3 / WA 200

Description								
Dynamic	3-1xx END	3-22x END	3-1xx	3-21x REF	3-11x FU REF			
Control unit Control	External control	22-23	74-75 END 144-145 (N) REF	24-25 (N)	145 FU/ 145 FU-S 144-145 (N)			
WA 200					WA 200			
Control unit B					60 FU			
Article						Article no.	Price each	
 <p>Cover quick release</p>	x	x	x	x	x	8 050 382	€ 6,00	
 <p>Mains connection supply line CEE 5-pin 400 V with support plate</p>		x		x		8 053 542	€ 27,00	
 <p>Mains connection safety supply line 230 V with support plate</p>		x		x		8 053 541	€ 22,00	

Spare part price list Dynamic 400 - 404

Description								
Dynamic	400	401	402	403	404			
Control unit Control	70	70	70	70	70 ex. contactors			
MT 1 - 3		MT 1	MT 2	MT 3				
Control unit A	70 Vario	70 Vario	70 Vario	70 Vario	A 70 Vario ex. contactors			
Article						Article no.	Price each	
 Crank safety limit switch	x	x	x	x	x	153 295	€ 25,00	
 Limit switch terminal 5 limit switches	x	x	x	x	x	153 291	€ 90,00	
 Limit switch terminal 6 limit switches	x	x	x	x	x	74 191	€ 90,00	
 Emergency crank standard	x	x	x	x	x	153 301	€ 32,00	
 Emergency crank with cardan joint	x	x	x	x	x	153 302	€ 49,00	
 Emergency crank extended to 400 mm	x	x	x	x	x	153 303	€ 49,00	

Spare part price list control units and accessories

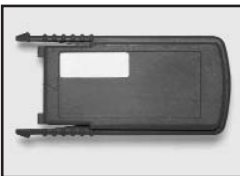



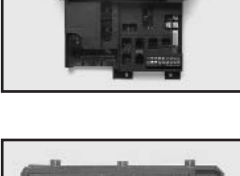

Description								
Dynamic	111-228	300-301	Dynamic 3	400-404				
	WA 100	ITO 100		MT 1-3	WA 200			
Article							Article no.	Price each
	Control unit Control 14-N 400 V	D. 211-218				71 440	€ 160,00	
	Control unit Control 15-N 230 V	D. 211-218				71 439	€ 118,00	
	Control unit A 45-N 400 V 7 segment indication	WA 100				60 870	€ 160,00	
	Control unit B 45-N 230 V 7 segment indication	WA 100				8 054 425	€ 118,00	
	Circuit board control unit Control 22 / A 40 400 V	D. 221-228 WA 100				152 744	€ 185,00	
	Circuit board control unit Control 23 / B 40 230 V	D. 221-228 WA 100				154 235	€ 131,00	
	Control unit Control 24-N 400 V			D. 3-21x		71 782	€ 213,00	

Spare part price list control units and accessories







Description								
Dynamic	111-228	300-301	Dynamic 3	400-404				
	WA 100	ITO 100		MT 1-3	WA 200			
Article							Article no.	Price each
	Control unit Control 25-N 230 V			D. 3-21x			71 783 € 174,00	
	Control unit Control 40 / A 60 400 V	D. 121-128 WA 100	D. 300 ITO 100				153 057 € 234,00	
	Control 41 / B 60 230 V	D. 121-128 WA 100	D. 301 ITO 100				153 067 € 185,00	
	Control unit Control 144-N 400 V (replacement for C. 44)	D. 121-128	D. 300	D. 3-10x			69 321 € 202,00	
	Control 145-N 230 V (replacement for C. 45)	D. 121-128	D. 301	D. 3-10x			69 322 € 149,00	
	Control 145-FU 230 V			D.3-11x-FU			8 055 623 € 149,00	
	Control 145-FU-S 230 V			D.3-11x-FU-S			69 168 € 149,00	
	Control unit A 60-N 400 V	x WA 100	x ITO 100				8 054 341 € 202,00	
	B 60-N 230 V	x WA 100	x ITO 100				8 054 338 € 149,00	
	B 60-FU 230 V 7 segment indication				x WA 200		8 054 343 € 149,00	
	Control unit Control 120 / 121 A 300 400 V	D. 121-128 WA 100	D. 300 ITO 100				153 052 € 320,00	
	Control 122 / 123 B 300 230 V	D. 121-128 WA 100	D. 301 ITO 100				153 062 € 274,00	

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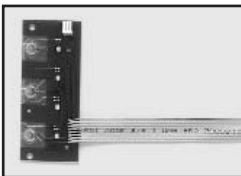



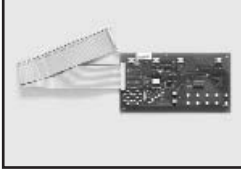
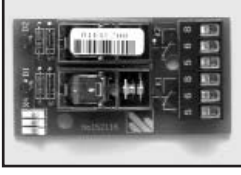
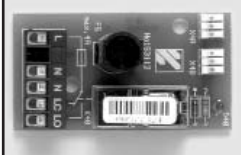
Spare part price list control units and accessories

Description								
Dynamic	111-228	300-301	Dynamic 3	400-404				
	WA 100	ITO 100		MT 1-3	WA 200			
Article							Article no.	Price each
	Chip card with special function Control 120-123 A / B 300	x	x				153 133 € 143,00	
	Control unit Control 70 400 V base unit for roller shutter doors				x A 70 Vario		47 641 € 175,00	
	Extension module closing edge safety device for Control 70 'press-and-release' direction door 'Close'				x A 70 Vario		48 077 € 49,00	
	closing edge safety device for Control 70 'press-and-release' direction door 'Close' and roll up safety device				x A 70 Vario		48 079 € 49,00	
	Control unit Control 74 400 V Control 75 230 V	x D. 12x END		x D.3-10x END			8 053 440 € 156,00 8 053 441 € 135,00	
	Extension module closing edge safety device for Control 74 / 75	x D. 12x END		x D.3-10x END			8 055 242 € 49,00	



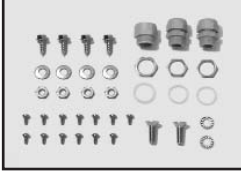
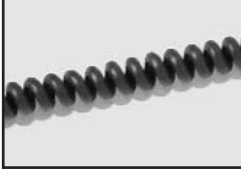
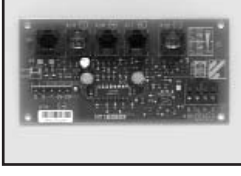
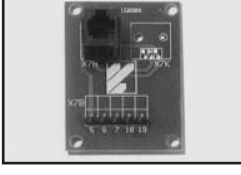

Spare part price list control units and accessories

Description													
Dynamic							111-228	300-301	Dynamic 3	400-404			
							WA 100	ITO 100		MT 1-3	WA 200		
Article												Article no.	Price each
	Cover for housing												
	Control 40, cpl.	x	x	x							152 377	€ 88,00	
	Control 41, cpl.	x	x	x							152 378	€ 88,00	
	Control 44, cpl.	x	x	x							48 067	€ 88,00	
	Control 45, cpl.	x	x	x							48 068	€ 88,00	
	Control 70, cpl.								x		46 681	€ 88,00	
	Control 74, cpl.	x		x							8 053 484	€ 88,00	
	Control 75, cpl.	x		x							8 053 485	€ 88,00	
	Control 75-FU, cpl.			x							8 053 486	€ 88,00	
	Control 144, cpl.	x	x	x							63 700	€ 88,00	
	Control 145, cpl.	x	x	x							63 701	€ 88,00	
	Control 145-FU, cpl.			x							63 702	€ 88,00	
	Control 144-N, cpl.			x							72 414	€ 88,00	
	Control 145-N, cpl.			x							72 415	€ 88,00	
Control 145-FU-S, cpl.			x							74 044	€ 88,00		
	Cover for housing												
	Control 120, cpl.	x	x								153 051	€ 188,00	
	Control 121, cpl.	x	x								153 053	€ 188,00	
	Control 122, cpl.	x	x								153 056	€ 188,00	
Control 123, cpl.	x	x								153 058	€ 188,00		
	Cover for housing												
	A 60-N MAR, cpl.	x	x								69 219	€ 88,00	
	B 60-N MAR, cpl.	x	x								69 220	€ 88,00	
	B 60-FU MAR, cpl.								x		69 221	€ 88,00	
	Keypad foil												
	A / B 60	x	x					x	x		562 189	€ 17,00	
	Keypad foil												
	Control 40-145-FU-S	x	x	x				x			8 001 331	€ 17,00	
	Keypad foil												
	Command 612 EFA 03	x		x							8 003 969	€ 8,00	






Spare part price list control units and accessories

Description								
Dynamic	111-228	300-301	Dynamic 3	400-404				
	WA 100	ITO 100		MT 1-3	WA 200			
Article							Article no.	Price each
 Keyboard circuit board Control 40-45 Control 70-75-FU Control 144-145-FU-S A / B 60-N B 60-FU	x	x	x	x	x		152 818	€ 24,00
 Keyboard circuit board Command 612 EFA 03	x		x				153 681	€ 21,00
 Key switch unit	x	x	x	x	x		153 042	€ 21,50
 Replacement key Nr. 533	x	x	x	x	x		8 004 253	€ 4,60
 Circuit board CPU Control 120-123 A / B 300	x	x					153 981	€ 137,00
 Circuit board relay output Control 40-145-FU-S Control 120-123 A / B 60-300	x	x	x	x	x		152 116	€ 32,00
 Circuit board signal light relay Control 40-145-FU-S Control 120-123 A / B 60-300	x	x	x	x	x		153 112	€ 43,00

Spare part price list closing edge safety devices

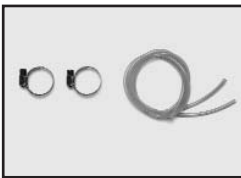




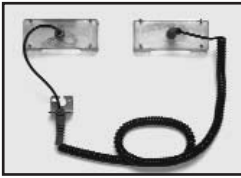

Description													
Dynamic							111-228	300-301	Dynamic 3	400-404			
							WA 100	ITO 100		MT 1-3	WA 200		
Article												Article no.	Price each
	Empty housing Closing edge safety device incl. cover till 05/1998	x	x			x					564 485	€ 25,00	
	Mounting plate Closing edge safety device till 05/1998	x	x			x					562 354	€ 6,00	
	Screwing set closing edge safety device	x	x			x					150 985	€ 30,00	
	Coiled cable 5x0,25 mm 600 mm	x	x	x		x			x		8 051 023	€ 23,00	
	5x0,25 mm 1.000 mm	x	x	x		x			x		8 051 126	€ 36,00	
	Circuit board optosensor till 05/1998	x	x						x		45 211	€ 79,00	
	Circuit board coiled cable connection till 05/1998	x	x						x		150 909	€ 21,00	
	Circuit board cable slack connector till 05/1998	x	x								151 743	€ 32,00	

Spare part price list closing edge safety devices

Description								
Dynamic	111-228	300-301	Dynamic 3	400-404				
	WA 100	ITO 100		MT 1-3	WA 200			
Article							Article no.	Price each
 Flat cable connecting screw 4-core cable till 05/1998 6-core cable till 05/1998	x	x					151 609	€ 4,00
	x	x					151 611	€ 4,00
 Short circuit plug	x	x	x	x	x		8 002 392	€ 1,00
 Bending protector PG 11 round pre-assembled till 05/1998	x	x	x	x			153 779	€ 6,00
 Cable screwing PG 11 till 05/1998	x	x			x		152 281	€ 5,00
 System cable 4-poles two sided system plug length:	4.000 mm	x	x	x		x	8 002 334	€ 6,00
	4.500 mm	x	x	x		x	8 002 335	€ 7,00
	5.000 mm	x	x	x		x	8 002 336	€ 8,00
	5.500 mm	x	x	x		x	8 002 337	€ 10,00
	6.000 mm	x	x	x		x	8 002 338	€ 11,00
	7.500 mm	x	x	x		x	8 002 339	€ 12,00
	8.500 mm	x	x	x		x	8 002 340	€ 13,00
9.500 mm	x	x	x		x	8 002 544	€ 15,00	

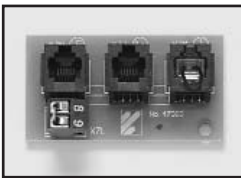
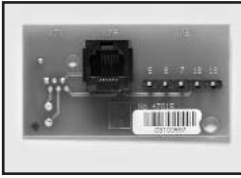
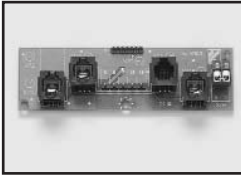
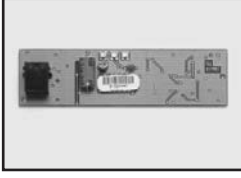

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Spare part price list closing edge safety devices


Description												
Dynamic							111-228	300-301	Dynamic 3	400-404		
							WA 100	ITO 100		MT 1-3	WA 200	
Article							Article no.	Price each				
	Start up set closing edge safety device IP 65 (Steel clamps, air hose)	x	x	x	x	x	8 055 280	€ 4,00				
	Connecting housing 2. door leaf incl. circuit board cable slack device connector from 06/1998	x	x	x		x	47 385	€ 40,00				
	Housing bottom part closing edge safety device from 06/1998	x	x	x	x	x	8 050 226	€ 20,00				
	Housing cover from 06/1998	x	x	x		x	8 005 451	€ 10,00				
	Housing cover incl. strain relief from 06/1998	x	x	x	x	x	8 005 452	€ 13,00				
	Retrofit kit closing edge safety device / connector unit cable slack device FF 440-600	x	x	x		x	61 523	€ 35,00				
	Mounting plate closing edge safety device from 06/1998	x	x	x	x	x	45 999	€ 6,00				

5

Spare part price list closing edge safety devices

Description							
Dynamic	111-228	300-301	Dynamic 3	400-404			
	WA 100	ITO 100		MT 1-3	WA 200		
Article						Article no.	Price each
 Circuit board cable slack device connector from 06/1998	x	x	x		x	47 365	€ 34,00
 Circuit board coiled cable connection from 06/1998	x	x	x	x	x	47 015	€ 21,00
 Base circuit board closing edge safety device from 06/1998	x	x	x		x	47 613	€ 33,00
 Logic circuit board closing edge safety device from 06/1998	x	x	x	x	x	64 817	€ 45,00
 Double housing closing edge safety device coiled cable door leaf pre-assembled		x	x	x	x	8 051 794	€ 75,00
Double housing closing edge safety device door leaf 2. side pre-assembled		x	x	x	x	8 051 795	€ 65,00
Double housing closing edge safety device coiled cable frame pre-assembled		x	x	x	x	8 051 793	€ 65,00

Spare part price list closing edge safety devices

Description							
Dynamic	111-228	300-301	Dynamic 3	400-404			
	WA 100	ITO 100		MT 1-3	WA 200		
Article						Article no.	Price each
 Retrofit kit DW-contact only for Control 70-75 Control 144-145-FU-S		x	x	x	x	8 053 273	€ 36,00

Sales Conditions and Terms of Delivery (valid from 01. July 2001)

A. General standard terms and conditions

I. Conclusions

1. Our offers are without engagement. All conclusions and changes thereof are only binding after written confirmation.
2. These conditions are also applicable to future delivery and/or services. We contradict to divergent conditions of the customer.
3. With products being manufactured separately on order, the contract is considered to be concluded after our written confirmation, even if there still have to be given clarifications which may have an influence on delivery period and price.
4. We reserve to ourselves sole ownership and copyright to all documents (pictures, drawings, descriptions, etc.) belonging to the offer; a transmission of these documents to third parties – even in extracts – is only admissible after prior written consent.
5. The given information in our informative documents is subject to alterations.
6. We are entitled to partial deliveries.

II. Prices

1. Prices are ex works or ex stock plus the correspondent applicable value added tax (also for interest on defaulted payment). Freight and packaging in Euro. We only grant you a discount for payment in cash. This discount does also require the punctual fulfilment of all of the buyer's duties, also of those of earlier sales. We do not grant a discount on wage-invoice-costs.
2. We are entitled to charge you subsequently for all increases in costs occurred after conclusion of the contract (costs for material, wage, energy, legal regulations, etc.)

III. Payments

1. At a price below Euro 5,000.00, payment has to be effected within 30 days from date of invoice. At a price of more than Euro 5,000.00, one third has to be paid with receipt of the written confirmation of the order, another third after receipt of the information of the readiness to deliver, the last third 30 days after date of invoice, these payments have each to be effected in cash notwithstanding the right of the customer's complaint under exclusion of a contested counterclaim and the right to refuse performance as independently from the execution of possibly effected assembly services as well. The price for assembly indicated in the invoice has to be paid immediately after termination of assembly.
2. Bills of exchange are only accepted for payment and due to special agreement. Credit notes on bills of exchange and cheques are only given under the reservation of receipt less all expenses with value date of the day, on which we can dispose of the equivalent.
3. We charge you with interests according to the corresponding bank discount rates for short-term credits in case of any overrun of time for payment, at least however we charge you with interests of an amount of 3 % over the corresponding discount rate of the Deutsche Bundesbank.
4. Our claims are due at once - independently from the life span of bills of exchange that have been taken in or have been credited – if the terms of payment are not respected by the customer or if we get to know information being suitable to diminish the customer's creditworthiness. Regardless of other legal rights we are also entitled, to carry out outstanding deliveries and/or services against payment in advance or safety services. We may also - without cancellation of the contract - prohibit further sale or further processing of the merchandise delivered, revoke automatic debit transfer according to figure IV. 5. and claim return of the merchandise on the buyer's costs or claim property of the merchandise without the buyer having a right of withholding or similar right. We are entitled to sell the merchandise returned by ourselves for counting against our receivables.
5. If we can we can claim for compensation because of non-fulfilment, our claim for compensation will at least be 20% of the price.

IV. Securities

1. All merchandise delivered (conditional commodity) will remain our property until all claims - especially the balance claim -, which we are entitled to against the customer out of any legal reason, will have been fulfilled. This regulation is also applicable if payments on especially marked claims are effected.
2. Handling and processing of the conditional commodity is effected for us as manufacturer according to § 950 BGB (Bürgerliches Gesetzbuch) without any engagement from our side; the merchandise processed is considered to be conditional commodity.
When processing, combining or blending/mixing conditional commodity by the customer, we are entitled to joint ownership on the new product in the proportion of the value of the conditional commodity to the value of the other applied merchandise. If our ownership lapses by combination or blend/mixture, the customer transfers to us already now the right of ownership on the new product in the amount of the value of the conditional commodity. The customer does not claim any fee. The rights of joint ownership which we are entitled to are to be considered as conditional commodity.
3. The customer is only allowed to sell conditional commodity in common trade and only if he is not in delay of payment, but with the proviso that the claims out of the resale are passed to us. The installation in real estate or in plants connected with buildings or the use in order to fulfil other works or works delivery contracts is equivalent to resale. If our customer concludes with his recipient of delivery an open account agreement, that does not let the claims for a resale immediately be contradictory to the contract, the claim resulting from the open account agreement in favour of the customer is already now considered to be transferred to us.
4. The claims of the customer resulting from the resale of our conditional commodity, wherein also the fulfilment of a works or works delivery contract is concluded, are already now transferred to us. If the conditional commodity is resold together with other products not delivered by us, the transfer of the claim resulting from the resale only amounts to the values mentioned in our invoice of the corresponding conditional commodity sold. When reselling merchandise which we have a right of joint ownership of, the transfer is in the amount of the joint ownership share. The transferred claims serve in the same degree as security as the conditional commodity.
5. The customer is entitled to call in claims resulting from a resale until the revocation admissible at any time. We will only use our right of revocation in the cases indicated in paragraph III. 4. The customer is not entitled to transfer the claims to third parties. On our demand, the customer is obliged to inform his buyers immediately of the transfer and to give us the necessary information and documentation for calling the claims in.
6. As far as there are claims of the customer against insurance or other third parties due to damage, deterioration, loss or sinking of the conditional commodity or due to other reasons, these claims are also transferred to us with all their subsidiary rights.
7. If we assert the reservation of title, this is considered as cancellation of contract only, if we express it in written form. The customer's right of possessing the conditional commodity lapses, if he does not fulfil his obligations of this or another contract. We are then entitled without extending the original term or without advice of cancellation, to take the conditional commodity in possession by ourselves and to utilize it without prejudice to the payment or other obligations of the customer towards us through selling it by private contract or by auctioning it off in the best possible way. The utilization revenue is charged to the customer after deduction of costs on his liabilities. Any possible surplus is paid out to him.
8. Any rights resulting from this reservation of ownership and all special forms fixed in these conditions are considered to be up to the moment of complete non-liability also contingent liabilities.
9. If the value of the securities of the secured claims passes continuously more than 20 %, we are obliged to unblock securities in so far upon our choice on the customer's demand.
10. We are always entitled to enter the business and plant rooms of the customer for establishing the existence of merchandise under reservation of ownership.

V. Place of performance, place of jurisdiction, applicable law, language of contract

1. Place of performance/fulfilment for both contracting parties is the site of our works of delivery.
2. Place of jurisdiction for both contracting parties is Bielefeld.
3. The law of the Federal Republic of Germany shall be applied. The standard laws on international sale of movable objects is not applicable.
4. The German version is binding in written documents.

B. Execution of deliveries and performances

I. Acts of God and other hindrances

1. Events considered to be Acts of God authorize us to prolong delivery or performance for the time of hindrance plus an adequate period, or to withdraw in total or in parts from the contract due to the not yet fulfilled part. Equivalent to Acts of God are strike, lockout, mobilization, war, blockade, ban on exports and imports, lack of commodity and fuel, fire, roadblocks, disruptions in plant or transports and other circumstances, which we do not have to stand in for, no matter if they occur to us, to our in-supplier, or to one of your sub-deliverers.
2. If the customer has a right of withdrawal regarding the cases mentioned under '1.', the withdrawal can only be declared for the not yet fulfilled part of the contract; he is, however, obliged to replace the expenses accrued to us for the not yet fulfilled part of the contract against permitting the use of the processed and virgin materials.
3. The declaration of an in-supplier or sub-deliverer is a sufficient proof, that we are hindered to supply.

II. Periods of delivery and performance

1. Periods and deadlines are without engagement.
2. Periods begin with date of confirmation of the order, however not before complete clarification of all details and the transmission of possibly necessary declarations from authorities or others by the customer; deadlines are prolonged correspondingly. Periods and deadlines refer to the date of announcement of readiness to deliver ex works or ex stock.
3. Periods are prolonged – without prejudice to our rights of possible delay of the customer – for the period, while the customer does not fulfil his obligations out of this or another conclusion, in respect of our total planning.
4. In case of delay our customer is entitled to hand in his withdrawal after expiration of an adequately fixed extension of the original term of a fifth of the stipulated delivery period and/or performances, at least however ten working days.

III. Dispatch and passage of risk

1. We determine the forwarding agent or carrier. We choose transport-, protection- and dispatch means as way and manner of dispatch as well. The General German Forwarding Conditions (Allgemeine Deutsche Spediteurbedingungen) are applicable for us as well.
2. Merchandise ready for dispatch on schedule have to be called off immediately. Otherwise we are allowed to stock them in our estimation on cost and risk of the customer and invoice them as delivered. The same is valid for the cases indicated below 'B.1'. At a charge-free delivery, the customer has to discharge the means of transport at once. Waiting periods are to be chargeable to the customer.
3. With transfer of the merchandise to the forwarding agent or carrier, at least when leaving our works, even if the merchandise is delivered with one of our heavy goods vehicle, the risk is passed over - even at a delivery free of charge – in every case – confiscation inclusive – to the customer. For further performance, especially assembly performances, the risk is passed over to the customer with progressing performance.
4. The customer is responsible for unloading and transport to the application or stocking site, he has to bear insofar costs and risk of discharging or stacking or stocking or re-transport in case of delay.

IV. Warranty

- We warrant – according to the approved rules of technology – faultless material and work. We are liable for possible imperfections of delivery or performance – lacking of assured qualities inclusive – to the exclusion of further claims as follows:
1. The warranty period for application parts and electronic equipment is 24 months, for drive systems for commercial use 12 months, calculated from the time of risk passage.
 2. Faults have to be complained in due course – recognizable faults within 5 days from arrival of the goods at their place of destination, otherwise possible claims will lapse.
 3. We are obliged to rectify faults on elements of our choice or to deliver them anew, which may be interfered on their serviceability within the period of warranty due to a circumstance lying in the passage or risk, or to reimburse the reduced value. Replaced elements become our property.
 4. If we do not fulfil our warranties, the customer has only a right of reduction of purchase price to the exclusion of further claims after mounting and insofar as the backing out is connected with unreasonable expense; otherwise he has a right of withdrawal, if the referral to the right of reduction of purchase price is unreasonable.
 5. The warranty does not extend to
 - a) faults resulting from natural depreciation, defective mounting and assembly work by third parties, faulty setting into operation, faulty or thoughtless treatment, improper use, as a consequence of outer influences (for instance magnetic fields) as well as non-respect of the operating instructions,
 - b) faults being caused by changes or repairs made without our prior consent by the customer or third parties,
 - c) delivered elements being subject to super-elevated natural abrasion due to their material or use, for instance sealings, plastics stocks.
 6. The customer has to give us an adequate occasion and an adequate period of time to carry out warranty actions; otherwise possible claims will lapse. If the contractual object is used in spite of the defect, the warranty is restricted only to the original defect.
 7. The warranty is 6 months for the replacement and/or rectification, at least however the original warranty period.
 8. We are allowed to refuse the removal of faults as long as the customer does not fulfil his obligations in an adequate extent.
 9. Warranty claims will lapse after one month after our refusal or rejection of our proposed solution, calculated from the date of our letter.
 10. In negotiations on formal complaints, we do not renounce on the objection, that a complaint has not been made in time or sufficiently. Persons charged with the verification of a customer's complaint are not entitled to approve faults with effect against ourselves.
 11. Other claims are - as far as admissible – excluded; this applies especially for claims for compensation of damages, that did not arise on the contractual object itself.
 12. The above-mentioned provisions will also be applied for the delivery of other non-contractual merchandise.

C. 1. Liability

Our liability refers exclusively to the agreements made in the paragraphs above. All other claims not expressly granted therein (compensation for damages) – no matter out of which legal reason – are, as far as admissible – excluded, as long as not solely restricted to the compensation of damages on the delivered object and on the whole limited to 65% of the delivery and performance value, and they will become time-barred six months from date of passage of risk.

II. Partial invalidity

In case conditional parts are invalid – due to legal provisions and especially due to the law for regulation of the law of the General Terms and Conditions (Allgemeine Geschäftsbedingungen – AGB-Gesetz), we agree that invalid conditional parts affected insofar will be replaced by the legally admissible regulation. This applies especially for contracts with non-traders.

III. No support of third parties, interdict of assignment

This contract does not found rights for third parties. An assignment of claims and rights out of this contract by the customer requires our written consent.

IV. Right of admission for control personnel

The customer is obliged to take care of the admission of control personnel which is charged to verify grade-labelled products.

Assembly conditions (are applied in connection with our Sales Conditions and Terms of Delivery).

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