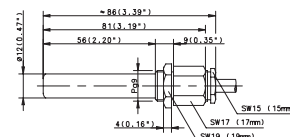
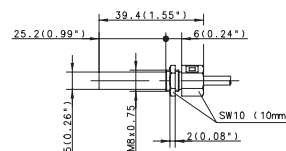
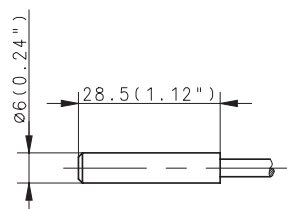


Magnetic Switches (Type Ø 6 mm, Ø 6.5 mm, Ø 12 mm, Ø 13 mm)

Type	Ø 6 mm		Ø 6.5 mm		Ø 12 mm	
Nominal switching distance (San)	19 mm	19 mm	18 mm		6 mm	7 mm
Type of connection	Cable 1 m	Cable 1 m	Cable 2 m		Cable 1 m	Cable 1 m
Reference magnet (Page)	T-62 N/S	T-62 N/S	T-62 N/S		T-62 N/S	T-62 N/S
Special feature						



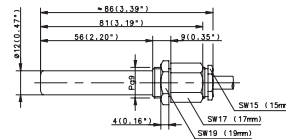
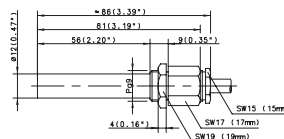
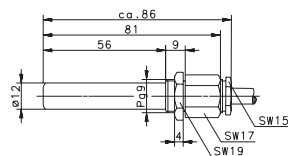
Switching function	NO contact	6311230571	6310246500		6314206246
	Type	MAK-3012-B-1	MAK-4612-A-2		MAA-0612-F-1
	NC contact				
	Type				
	Changeover contact				
Type	Changeover contact	6310330572		6317306315	
	Type	MAK-3013-X-1		MAA-0613-M-1	
	Bistable				
Type	Bistable				
	Type				

Technical data					
Max. switching voltage	100 V	250 V	250 V	250 V	250 V
Switching current (max)	0.25 A	0.5 A	0.5 A	1 A	3 A
Performance class (diagram No.)	5 VA	10 VA	20 VA	80 VA	100 VA
Shock resistance		50 g (11 ms)			

Mechanical data					
Ambient temperature (min/max)	-5°C/+70°C	-5°C/+70°C	-5°C/+70°C	-5°C/+70°C	-5°C/+70°C
Protection class in accordance with IEC 529, EN 60529	IP67	IP67	IP67	IP67	IP67
Enclosure material	PA	PA	PA	Aluminium	Al/CuZn39Pb3
Connection	3 x 0.14 mm²	2 x 0.14 mm	2 x 0.14 mm²	4 x 0.75 mm²	3 x 0.75 mm²

Please refer to Accessories for magnets, mounting brackets, cable couplers and sensor tester.

Type	Ø 12 mm		Ø 12 mm		Ø 12 mm	
Nominal switching distance (San)	7 mm	7 mm	7 mm	7 mm	8 mm	12 mm
Type of connection	Cable 1 m	Cable 3 m	Cable 8 m	Cable 2 m	Cable 1 m	Cable 1 m
Reference magnet (Page)	T-62 N/S	T-62 N/S	T-62 N/S	T-62 N/S	T-62 N/S	T-62 N/S
Special feature			Temperature			



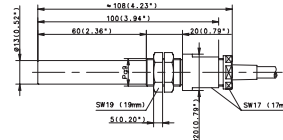
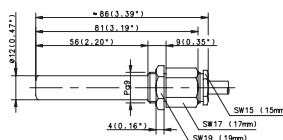
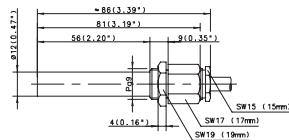
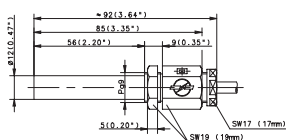
Switching function	NO contact	6312206321	6314216476	6314216585	6314226423	
	Type	MAA-0612-D-1	MAN-1612-F-3	MAN-1612-FT-8	MAK-2612-F-1	
	NC contact					
	Changeover contact					
	Type					
Type	Changeover contact					
	Type					
	Bistable					
Type	Bistable					
	Type					

Technical data						
Max. switching voltage	250 V	250 V	250 V	250 V	250 V	250 V
Switching current (max)	0.5 A	3 A	3 A	3 A	0.5 A	1 A
Performance class (diagram No.)	30 VA	100 VA	100 VA	100 VA	30 VA	60 VA
Shock resistance		50 g (11 ms)				

Mechanical data						
Ambient temperature (min/max)	-5°C/+70°C	-5°C/+70°C	-40°C/+150°C	-5°C/+70°C	-5°C/+70°C	-5°C/+70°C
Protection class in accordance with IEC 529, EN 60529	IP67	IP67	IP67	IP67	IP67	IP67
Enclosure material	Aluminium	Stainless steel 1.4305	Stainless steel 1.4305	PA, red	Al/CuZn39Pb3	Stainless steel 1.4305
Connection	3 x 0.75 mm²	3 x 0.75 mm²	3 x 0.75 mm²	2 x 0.5 mm²	4 x 0.75 mm²	4 x 0.75 mm²

Please refer to Accessories for magnets, mounting brackets, cable couplers and sensor tester.

Ø 12 mm		Ø 12 mm		Ø 12 mm		Ø 13 mm	
12 mm	12 mm	16 mm	18 mm	19 mm	19 mm	9 mm	20 mm
Cable 1 m	Cable 1 m	Cable 4 m	Cable 1m	Cable 1 m	Cable 1 m	Cable 1 m	Cable 1 m
T-62 N/S	T-62 N/S	T-62 N/S	T-62 N/S	T-69 N/S	T-69 N/S	T-62 N/S	T-62 N/S
		Temperature			Temperature		



6316326426 MAK-2613-L-1	6315326425 MAK-2613-K-1	6410206399 MAA-0612-NT-4	6310406554 MAA-0614-P-1	6316306248 MAA-0613-L-1	6316306004 MAA-0613-LT-1	6310136616 MAK-3611-P-1	6310536617 MAK-3615-L-1

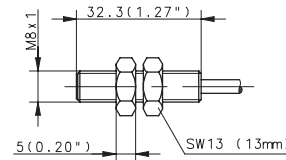
250 V	250 V	250 V	250 V	250 V	250 V	250 V	250 V
1 A	0.5 A	1.5 A	5 A	1 A	1 A	5 A	1 A
60 VA	30 VA	50 VA	250 VA	60 VA	60 VA	250 VA	60 VA

-5°C/+70°C	-5°C/+70°C	-40°C/+150°C	-5°C/+70°C	-5°C/+70°C	-40°C/+150°C	-5°C/+70°C	-5°C/+70°C
IP67	IP67	IP67	IP67	IP67	IP67	IP67	IP67
PA, red	PA, red	Al/CuZn39Pb3	Al/CuZn39Pb3	Al/CuZn39Pb3	Al/CuZn39Pb3	PA, black	PA, black
3 x 0.5 mm ²	3 x 0.5 mm ²	3 x 0.75 mm ²	3 x 0.75 mm ²	4 x 0.75 mm ²	4 x 0.75 mm ²	2 x 0.75 mm ²	3 x 0.75 mm ²



Magnetic Switches (Type Ø 15.5 mm, M8, M12, PG9, 28.6 x 18 mm)

Type	Ø 15.5 mm	M8		M8
Nominal switching distance (San)	6 mm	13 mm	13 mm	18 mm
Type of connection	Connector	Cable 1 m	Connector	Cable 1 m
Reference magnet (Page)	T-62 N/S	T-62 N/S	T-62 N/S	T-62 N/S
Special feature				



Switching function	NO contact	6317304313 MAK-0413-M-S	6310308597 MAN-0813-Y-1	6310308595 MAN-0813-STK	6311208596 MAN-0812-B-1	
	Type					
	NC contact					
	Type					
	Changeover contact					
	Type					
	Bistable					
	Type					

Technical data

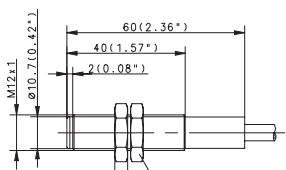
Max. switching voltage	250 V	100 V	30 V	250 V
Switching current (max)	1 A	0.5 A	1 A	0.5 A
Performance class (diagram No.)	80 VA	10 VA	20 VA	10 VA
Shock resistance				

Mechanical data

Ambient temperature (min/max)	-5°C/+70°C	-20°C/+70°C	-5°C/+70°C	-5°C/+70°C
Protection class in accordance with IEC 529, EN 60529	IP65	IP67	IP65	IP67
Enclosure material	PC, grey	Stainless steel 1.4305	Stainless steel 1.4305	Stainless steel 1.4305
Connection	Amphenol	3 x 0.14 mm ²	Ø 6.5 mm	2 x 0.14 mm ²

Please refer to Accessories for magnets, mounting brackets, cable couplers and sensor tester.

Type	M12		M12		M12	
Nominal switching distance (San)	7 mm	7 mm	10 mm	12 mm	15 mm	18 mm
Type of connection	Cable 1 m	Cable 2 m	Cable 1 m	Cable 1 m	Cable 3 m	Cable 1 m
Reference magnet (Page)	T-62 N/S	T-62 N/S	T-62 N/S	T-62 N/S	T-62 N/S	T-68
Special feature						



Switching function	NO contact	6314223268	6314233002			6416228260	6311218294
	Type	MAM-2312-F-1	MAK-3312-F-2			MAK-2812-L-3	MAM-1812-B-1
	NC contact						
	Changeover contact			6316333005	6316318002		
	Type			MAK-3313-L-1	MAM-1813-L-1		
	Bistable						

Technical data

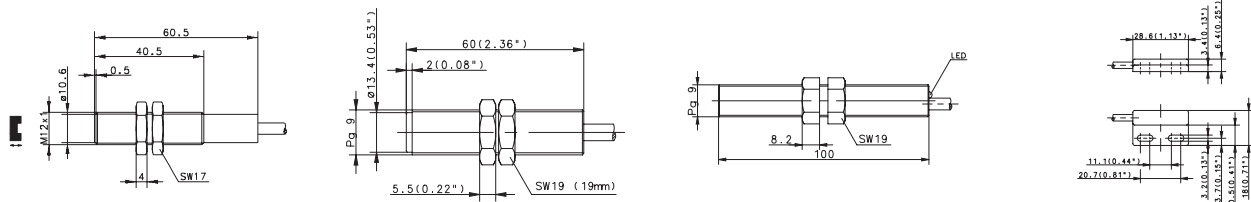
Max. switching voltage	250 V	250 V	250 V	250 V	250 V	250 V
Switching current (max)	3 A	3 A	1 A	1 A	1 A	0.5 A
Performance class (diagram No.)	100 VA	100 VA	60 VA	60 VA	60 VA	10 VA
Shock resistance		50 g (11 ms)				50 g (11 ms)

Mechanical data

Ambient temperature (min/max)	-5°C/+70°C	-25°C/+70°C	-5°C/+70°C	-5°C/+70°C	-5°C/+70°C	-5°C/+70°C
Protection class in accordance with IEC 529, EN 60529	IP67	IP67	IP67	IP67	IP67	IP67
Enclosure material	CuZn39Pb3	PA, red	PA, red	CuZn39Pb3	PA, red	CuZn39Pb3
Connection	2 x 0.5 mm ²	2 x 0.5 mm ²	3 x 0.5 mm ²	3 x 0.5 mm ²	2 x 0.5 mm ²	2 x 0.34 mm ²

Please refer to Accessories for magnets, mounting brackets, cable couplers and sensor tester.

M12		PG9	PG9	28.6x18x6.4 mm	
18 mm	22 mm	17 mm	20 mm	8 mm	8 mm
Cable 2 m	Cable 2 m	Cable 2 m	Cable 2 m	Cable 1 m	Cable 1.5 m
T-62 N/S	T-62 N/S	T-62 N/S	T-62 N/S	TK-11-11	TK-11-11
			D		



6310118626 MAM-1811-2	6410433350 MAK-3314-P-2	6316343544 MAM-4313-L-2	6310431569 MAM-3114-2-LED	6310311615 MAK-1113-1	6410311368 MAK-1113-1,5
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175 V	250 V	250 V	250 V	130 V	130 V
0.25 A	1.5 A	1 A	1 A	0.25 A	0.25 A
5 VA	250 VA	60 VA	120 VA	3 VA	3 VA
50 g (11 ms)					

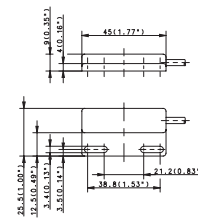
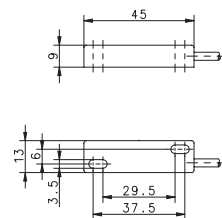
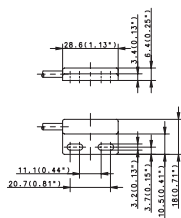
-5°C/+70°C	-25°C/+70°C	-5°C/+80°C	-5°C/+80°C	-5°C/+70°C	-20°C/+70°C
IP67	IP67	IP65	IP65	IP67	IP67
CuZn39Pb3	PA, red	CuZn39Pb3	CuZn39Pb3	PA, black	PA
2 x 0,34 mm ²	2 x 0,5 mm ²	3 x 0,5 mm ²	2 x 0,5 mm ²	3 x 0,14 mm ²	3 x 0,14 mm ²

You will find detailed data sheets to the products under www.bernstein.eu



Magnetic Switches (Type 28.6 x 18, 45 x 13, 45 x 25.5, 68 x 30, 80 x 20)

Type	28.6x18x6.4mm		45x13x9mm		45x25.5x9mm	
Nominal switching distance (San)	10 mm	25 mm	10 mm		5 mm	10 mm
Type of connection	Cable 1 m	Cable 5 m	Cable 2 m		Cable 1 m	Cable 1 m
Reference magnet (Page)	TK-11-11	T-67 N/S	TK-11-01		TK-45	TK-45
Special feature						



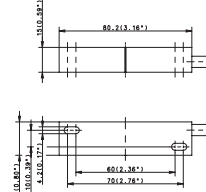
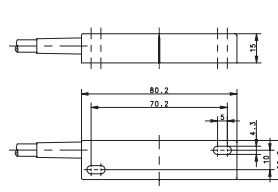
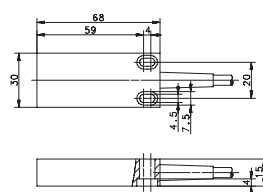
Switching function	NO contact	6311211541		6311201095		6311245539	
	Type	MAK-1112-B-1		MAK-0112-B-2		MAK-4512-B-1	
	NC contact						
	Type						
	Changeover contact						
Type	Changeover contact						
	Type						
	Bistable						
Special feature	Type						
	Type						

Technical data						
Max. switching voltage	250 V	250 V	250 V		250 V	250 V
Switching current (max)	0.5 A	0.5 A	0.5 A		1 A	0.5 A
Performance class (diagram No.)	10 VA	10 VA	10 VA		60 VA	10 VA
Shock resistance					50 g (11 ms)	

Mechanical data						
Ambient temperature (min/max)	-5°C/+70°C	-5°C/+70°C	-5°C/+70°C		-5°C/+70°C	-5°C/+70°C
Protection class in accordance with IEC 529, EN 60529	IP67	IP67	IP67		IP67	IP67
Enclosure material	PA, black	PA, black	PA, black		PA	PA
Connection	2 x 0.14 mm	2 x 0.14 mm	2 x 0.14 mm		2 x 0.34 mm ²	2 x 0.14 mm ²

Please refer to Accessories for magnets, mounting brackets, cable couplers and sensor tester.

Type	68x30x15mm		80x20x15mm		80x20x15mm	
Nominal switching distance (San)	8 mm		18 mm	18 mm	20 mm	10 mm
Type of connection	Cable 1 m		Cable 1 m	Cable 1 m	Cable 3 m	Cable 3 m
Reference magnet (Page)	T-62 N/S		TK-21-02	TK-21-02	T-62 N/S	T-67
Special feature					Temperature	



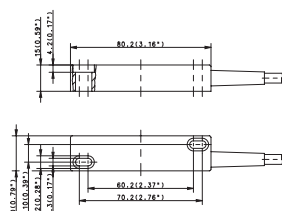
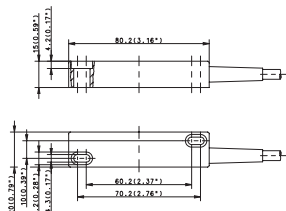
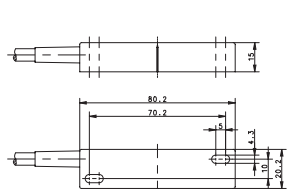
Switching function	NO contact	6316313004		6315302309		6315312196	
	Type	MAK-1313-L-1		MAK-0213-K-1		MAK-1213-K-1	
	NC contact						
	Changeover contact						
	Type						
Type	Changeover contact						
	Type						
	Bistable						
Special feature	Type						
	Type						

Technical data						
Max. switching voltage	250 V	250 V	250 V		250 V	250 V
Switching current (max)	1 A	0.5 A	0.5 A		3 A	5 A
Performance class (diagram No.)	60 VA	30 VA	30 VA		100 VA	250 VA
Shock resistance					10 g (11 ms)	

Mechanical data						
Ambient temperature (min/max)	-5°C/+70°C	-5°C/+70°C	-5°C/+70°C		-40°C/+150°C	-25°C/+70°C
Protection class in accordance with IEC 529, EN 60529	IP67	IP67	IP67		IP67	IP67
Enclosure material	PC, red	PA, black	PA, red		GDAISI12, red	PA, black
Connection	3 x 0.5 mm ²	3 x 0.75 mm ²	3 x 0.75 mm ²		3 x 0.75 mm ²	2 x 0.5 mm ²

Please refer to Accessories for magnets, mounting brackets, cable couplers and sensor tester.

80x20x15 mm		80x20x15 mm		80x20x15 mm		
21 mm	21 mm	21 mm	24 mm	24 mm	25 mm	
Cable 1 m	Cable 1 m	Cable 1 m	Cable 1 m	Cable 1 m	Cable 1 m	
TK-21-02	TK-21-02	TK-21-12	TA-21-02	TK-21-12	T-62 N/S	



6312202316 MAK-0212-L-1	6314202204 MAK-0212-F-1	6314212217 MAK-1212-F-1	6316302206 MAK-0213-L-1	6316312220 MAK-1213-L-1	6410412143 MAK-1214-L-2	
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250 V	250 V	250 V	250 V	250 V	250 V	
0.5 A	3 A	3 A	1 A	1 A	1 A	
30 VA	100 VA	100 VA	60 VA	60 VA	60 VA	

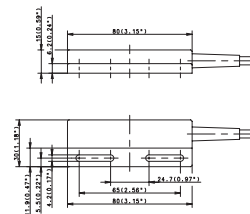
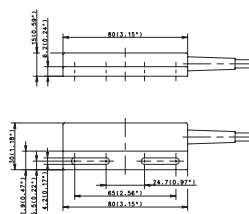
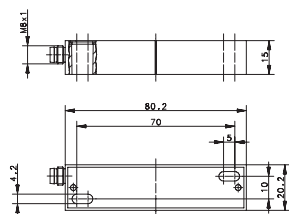
-5°C/+70°C	-5°C/+70°C	-5°C/+70°C	-5°C/+70°C	-5°C/+70°C	-5°C/+70°C	
IP67	IP67	IP67	IP67	IP67	IP67	
PA, black	PA, black	PA, red	PA, black	PA, red	PA, red	
2 x 0.75 mm ²	2 x 0.75 mm ²	2 x 0.5 mm ²	3 x 0.5 mm ²	3 x 0.5 mm ²	2 x 0.5 mm ²	

You will find detailed data sheets to the products under www.bernstein.eu



Magnetic Switches (Type 80 x 20 mm, 80 x 30 mm, 85 x 24 mm, 88 x 25 mm, 100 x 58 mm)

Type	80x20x15 mm		80x30x15 mm		80x30x15 mm	
Nominal switching distance (San)	25 mm	30 mm	8 mm	19 mm	20 mm	22 mm
Type of connection	Connector M8	Cable 1 m	Cable 1 m	Cable 1 m	Cable 1 m	Cable 1 m
Reference magnet (Page)	Ø 10 x 50 Neod	TA-21-02	TK-44	TK-44	T-62 N/S	TK-44
Special feature		Temperature				



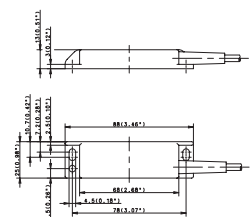
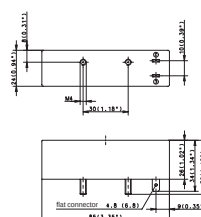
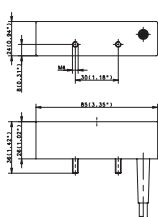
Switching function	NO contact			6314244536	
	Type			MAK-4412-F-1	
	NC contact		6314144542		
	Type		MAK-4411-F-1		
	Changeover contact				
Type		6310302636	6316302389		6317344538
		MAA-0213-STK	MAA-0213-LT-1		MAK-4413-M-1
Type				6310444537	
Bistable				MAK-4414-P-1	
Type					

Technical data						
Max. switching voltage	60 V	250 V	250 V	250 V	250 V	250 V
Switching current (max)	1 A	1 A	3 A	3 A	5 A	1 A
Performance class (diagram No.)	3 VA	60 VA	100 VA	100 VA	250 VA	80 VA
Shock resistance	10 g (11 ms)					

Mechanical data						
Ambient temperature (min/max)	-30°C/+80°C	-40°C/+150°C	-5°C/+70°C	-5°C/+70°C	-5°C/+70°C	-5°C/+70°C
Protection class in accordance with IEC 529, EN 60529	IP65	IP67	IP67	IP67	IP67	IP67
Enclosure material	GDAISi 12, red	GDAISi12, red	PA, black	PA, black	PA, black	PA
Connection	M8 x 1	4 x 0.75 mm ²	2 x 0.5 mm ²	2 x 0.5 mm ²	2 x 0.5 mm ²	3 x 0.5 mm ²

Please refer to Accessories for magnets, mounting brackets, cable couplers and sensor tester.

Type	85x24x26 mm		85x24x26 mm	88x25x13 mm	
Nominal switching distance (San)	15 mm	24 mm	24 mm	22 mm	25 mm
Type of connection	Cable 3 m	Cable 1 m	Flat plug	Cable 1 m	Cable 1 m
Reference magnet (Page)	T-67 N/S	T-69 N/S	T-69 N/S	TK-42	TK-42
Special feature			K4.8		



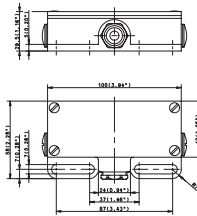
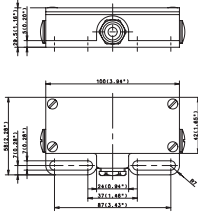
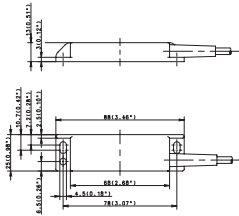
Switching function	NO contact				6314242533
	Type				MAK-4212-F-1
	NC contact				
	Changeover contact				
	Type				
Type		6314432609	6310432598	6317342535	
		MAK-3214-F-3	MAK-3214-P-1	MAK-4213-M-1	
Type			6310432590		
Bistable			MAK-3214-P-STK4.8		
Type					

Technical data					
Max. switching voltage	250 V	250 V	250 V	250 V	250 V
Switching current (max)	3 A	5 A	5 A	1 A	3 A
Performance class (diagram No.)	100 VA	250 VA	250 VA	80 VA	100 VA
Shock resistance					

Mechanical data					
Ambient temperature (min/max)	-25°C/+70°C	-5°C/+70°C	-20°C/+70°C	-5°C/+70°C	-5°C/+70°C
Protection class in accordance with IEC 529, EN 60529	IP67	IP67	IP67	IP67	IP67
Enclosure material	PBT	PA, black	PBT, black	PA, black	PA, black
Connection	2 x 0.5 mm ²	2 x 0.75 mm ²	4.8 mm	3 x 0.5 mm ²	2 x 0.5 mm ²

Please refer to Accessories for magnets, mounting brackets, cable couplers and sensor tester.

88x25x13 mm		100x58x29.5		100x58x29.5	
25 mm	25 mm	10 mm	10 mm	15 mm	
Cable 1 m	Cable 3 m	Screw terminal	Screw terminal	Screw terminal	
T-69 N/S	T-69 N/S	TA-31	TA-31	T-62 N/S	



6310442534 MAK-4214-P-1	6310442622 MAK-4214-P-3	6317303312 MAA-0313-M	6314203232 MAA-0312-F	6319403532 MAA-0314-P		

250 V	250 V	250 V	250 V	250 V	
5 A	5 A	1 A	3 A	5 A	
250 VA	250 VA	80 VA	100 VA	250 VA	

-5°C/+70°C	-5°C/+70°C	-5°C/+70°C	-25°C/+70°C	-25°C/+70°C	
IP67	IP67	IP67	IP65	IP65	
PA, black	PA, black	Aluminium	Aluminium	Aluminium	
2 x 0.5 mm ²	2 x 0.5 mm ²	max. 1.5 mm ²	max. 1.5 mm ²	max. 1.5 mm ²	

