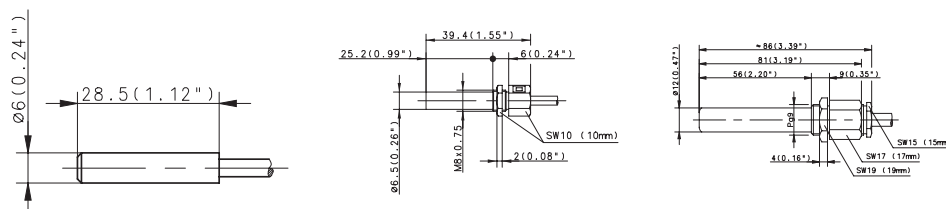


# Magnetic Switches (Type Ø 6 mm, Ø 6.5 mm, Ø 12 mm, Ø 13 mm)

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						



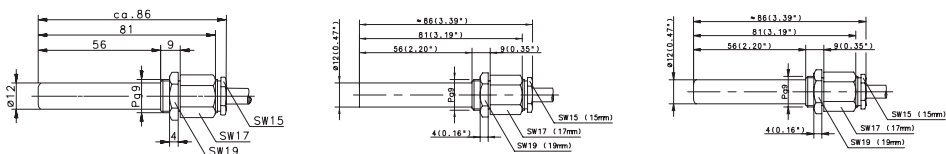
Switching function	NO contact	6311230571	6310246500		6314206246
	Type	MAK-3012-B-1	MAK-4612-A-2		MAA-0612-F-1
NC contact	Type				
	Changeover contact	6310330572		6317306315	
Type	MAK-3013-X-1			MAA-0613-M-1	
	Bistable				
Type					

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	
Protection class in accordance with IEC 529, EN 60529	IP67		IP67		IP67	
Enclosure material	PA		PA		Aluminium	
Connection	3 x 0.14 mm <sup>2</sup>		2 x 0.14 mm		4 x 0.75 mm <sup>2</sup>	

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			



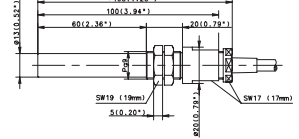
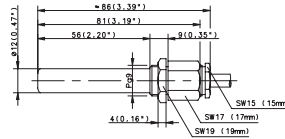
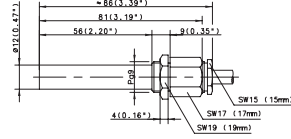
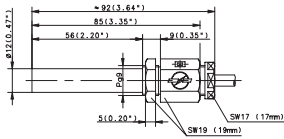
Switching function	NO contact	6312206321	6314216476	6314216585	6314226423	
	Type	MAA-0612-D-1	MAN-1612-F-3	MAN-1612-FT-8	MAK-2612-F-1	
NC contact	Type					
	Changeover contact					6315306314
Type	MAA-0613-K-1				MAA-0613-K-1	6316316259
	Bistable					MAN-1613-L-1

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		-5°C/+70°C	
Protection class in accordance with IEC 529, EN 60529	IP67		IP67		IP67	
Enclosure material	Aluminium		Stainless steel 1.4305		Aluminium	
Connection	3 x 0.75 mm <sup>2</sup>		3 x 0.75 mm <sup>2</sup>		4 x 0.75 mm <sup>2</sup>	

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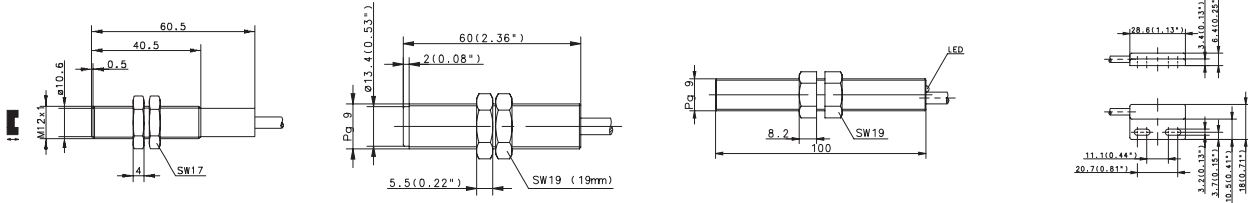
250 V	250 V	250 V	250 V	250 V	250 V	250 V	250 V
1 A	0.5 A	1.5 A	5 A	1 A	1 A	5 A	1 A
60 VA	30 VA	50 VA	250 VA	60 VA	60 VA	250 VA	60 VA

-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 <sup>2</sup>	3 x 0.5 mm <sup>2</sup>	3 x 0.75 mm <sup>2</sup>	3 x 0.75 mm <sup>2</sup>	4 x 0.75 mm <sup>2</sup>	4 x 0.75 mm <sup>2</sup>	2 x 0.75 mm <sup>2</sup>	3 x 0.75 mm <sup>2</sup>





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



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)					

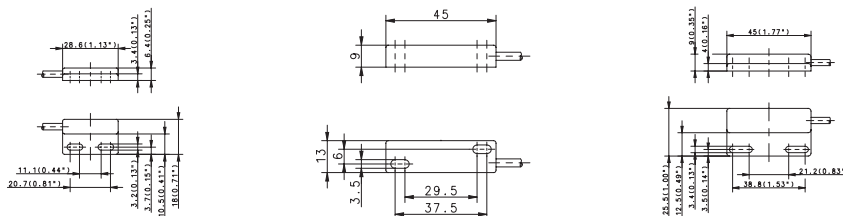
-5°C/+70°C	-25°C/+70°C	-5°C/+80°C	-5°C/+80°C	-5°C/+70°C	-20°C/+70°C
IP67	IP67	IP65	IP65	IP67	IP67
CuZn39Pb3	PA, red	CuZn39Pb3	CuZn39Pb3	PA, black	PA
2 x 0.34 mm <sup>2</sup>	2 x 0.5 mm <sup>2</sup>	3 x 0.5 mm <sup>2</sup>	2 x 0.5 mm <sup>2</sup>	3 x 0.14 mm <sup>2</sup>	3 x 0.14 mm <sup>2</sup>

You will find detailed data sheets to the products under [www.bernstein.eu](http://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						



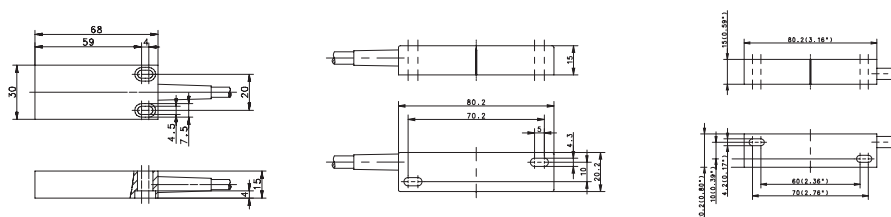
Switching function	NO contact	6311211541		6311201095		6311245539
	Type	MAK-1112-B-1		MAK-0112-B-2		MAK-4512-B-1
NC contact	Type					
	Changeover contact					
Type					6316345540	
	Bistable		6311411603		MAK-4513-L-1	
Type		MAK-1114-B-5				

Technical data						
Max. switching voltage	250 V	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	0.5 A
Performance class (diagram No.)	10 VA	10 VA	10 VA	60 VA	10 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	
Protection class in accordance with IEC 529, EN 60529	IP67		IP67		IP67	
Enclosure material	PA, black		PA, black		PA	
Connection	2 x 0.14 mm		2 x 0.14 mm		2 x 0.14 mm <sup>2</sup>	

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

Type	68x30x15 mm		80x20x15 mm		80x20x15 mm	
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



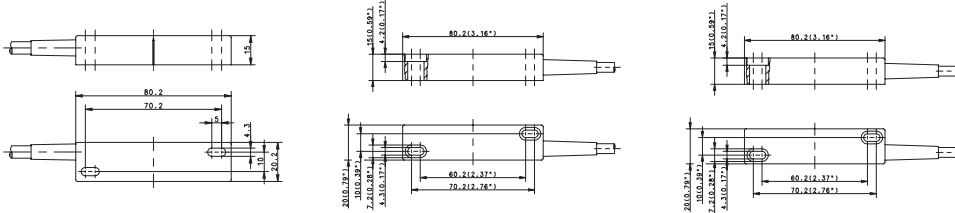
Switching function	NO contact	6316313004		6315302309	6315312196	6314402566	6419402397
	Type	MAK-1313-L-1		MAK-0213-K-1	MAK-1213-K-1	MAA-0214-FT-3	MAK-0214-P-3
NC contact	Type						
	Changeover contact						
Type							
	Bistable						

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

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

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	

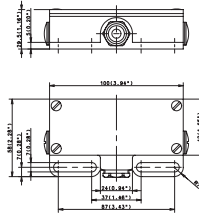
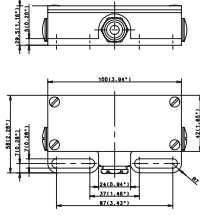
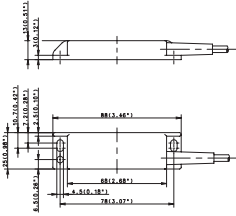
-5°C/+70°C	-5°C/+70°C	-5°C/+70°C	-5°C/+70°C	-5°C/+70°C	-5°C/+70°C	
IP67	IP67	IP67	IP67	IP67	IP67	
PA, black	PA, black	PA, red	PA, black	PA, red	PA, red	
2 x 0.75 mm <sup>2</sup>	2 x 0.75 mm <sup>2</sup>	2 x 0.5 mm <sup>2</sup>	3 x 0.5 mm <sup>2</sup>	3 x 0.5 mm <sup>2</sup>	2 x 0.5 mm <sup>2</sup>	

You will find detailed data sheets to the products under [www.bernstein.eu](http://www.bernstein.eu)





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	



			6314203232 MAA-0312-F		
6310442534 MAK-4214-P-1	6310442622 MAK-4214-P-3	6317303312 MAA-0313-M		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 <sup>2</sup>	2 x 0.5 mm <sup>2</sup>	max. 1.5 mm <sup>2</sup>	max. 1.5 mm <sup>2</sup>	max. 1.5 mm <sup>2</sup>	

