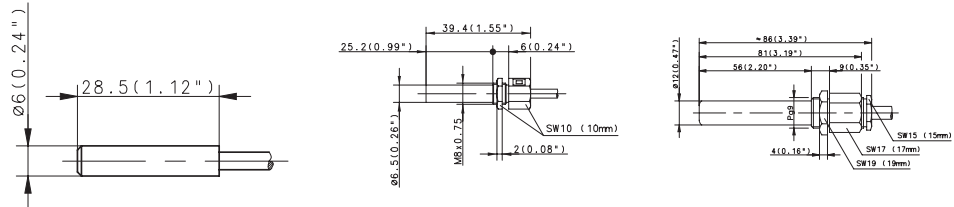


Magnetic Switches (Type Ø 6 mm, Ø 6.5 mm, Ø 12 mm, Ø 13 mm)

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						



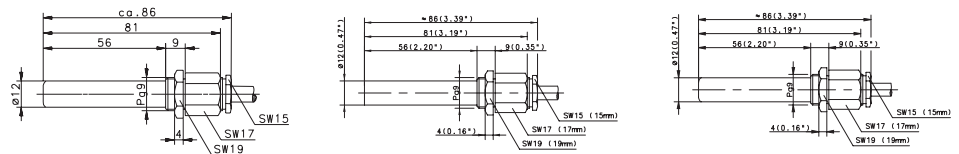
Switching function	NO contact	6311230571	6310246500		6314206246
	Type	MAK-3012-B-1	MAK-4612-A-2		MAA-0612-F-1
NC contact	Type				
	Changeover contact	6310330572			6317306315
Type	Changeover contact	MAK-3013-X-1			MAA-0613-M-1
	Bistable				
Type	Bistable				

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 ²		2 x 0.14 mm ²		4 x 0.75 mm ²	

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			



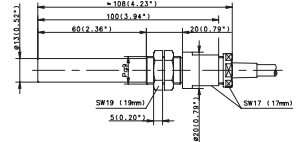
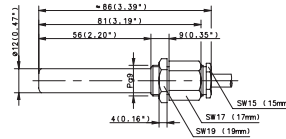
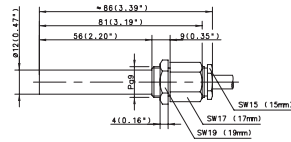
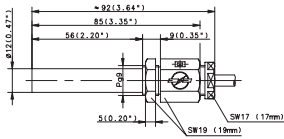
Switching function	NO contact	6312206321	6314216476	6314216585	6314226423	
	Type	MAA-0612-D-1	MAN-1612-F-3	MAN-1612-FT-8	MAK-2612-F-1	
NC contact	Type					
	Changeover contact					6315306314
Type	Changeover contact					MAA-0613-K-1
	Bistable					6316316259
	Bistable					MAN-1613-L-1

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 ²		3 x 0.75 mm ²		4 x 0.75 mm ²	

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
----------------------------	----------------------------	-----------------------------	----------------------------	----------------------------	-----------------------------	----------------------------	----------------------------

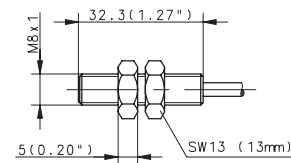
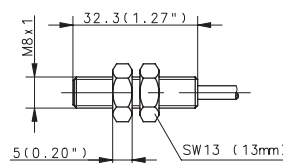
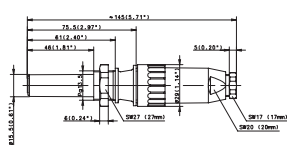
250 V	250 V	250 V	250 V	250 V	250 V	250 V	250 V
1 A	0.5 A	1.5 A	5 A	1 A	1 A	5 A	1 A
60 VA	30 VA	50 VA	250 VA	60 VA	60 VA	250 VA	60 VA

-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	18 mm
Type of connection	Connector	Cable 1 m	Connector
Reference magnet (Page)	T-62 N/S	T-62 N/S	T-62 N/S
Special feature			



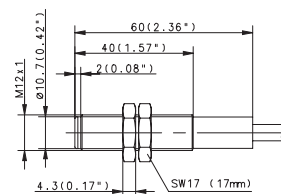
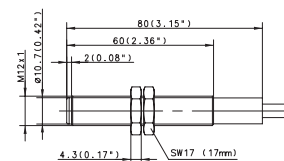
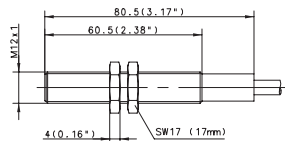
Switching function	NO contact Type NC contact Type Changeover contact Type Bistable Type	6317304313 MAK-0413-M-S	6310308597 MAN-0813-Y-1	6310308595 MAN-0813-STK	6311208596 MAN-0812-B-1
--------------------	--	----------------------------	----------------------------	----------------------------	----------------------------

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
Type of connection	Cable 1 m	Cable 2 m	Cable 1 m
Reference magnet (Page)	T-62 N/S	T-62 N/S	T-62 N/S
Special feature			



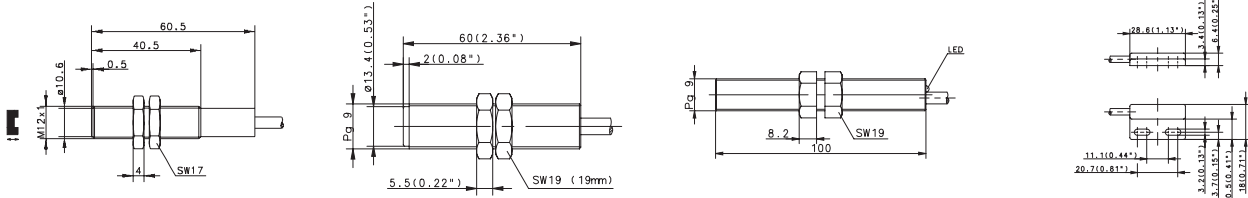
Switching function	NO contact Type NC contact Changeover contact Type Bistable	6314223268 MAM-2312-F-1	6314233002 MAK-3312-F-2	6316333005 MAK-3313-L-1	6316318002 MAM-1813-L-1	6416228260 MAK-2812-L-3	6311218294 MAM-1812-B-1
--------------------	--	----------------------------	----------------------------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

Technical data				
Max. switching voltage	250 V	250 V	250 V	250 V
Switching current (max)	3 A	3 A	1 A	1 A
Performance class (diagram No.)	100 VA	100 VA	60 VA	60 VA
Shock resistance		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
Protection class in accordance with IEC 529, EN 60529	IP67	IP67	IP67	IP67
Enclosure material	CuZn39Pb3	PA, red	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

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

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
--------------------------	----------------------------	----------------------------	------------------------------	--------------------------	----------------------------

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)					

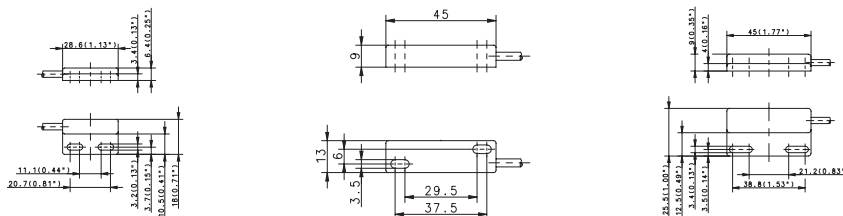
-5°C/+70°C	-25°C/+70°C	-5°C/+80°C	-5°C/+80°C	-5°C/+70°C	-20°C/+70°C
IP67	IP67	IP65	IP65	IP67	IP67
CuZn39Pb3	PA, red	CuZn39Pb3	CuZn39Pb3	PA, black	PA
2 x 0.34 mm ²	2 x 0.5 mm ²	3 x 0.5 mm ²	2 x 0.5 mm ²	3 x 0.14 mm ²	3 x 0.14 mm ²

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						



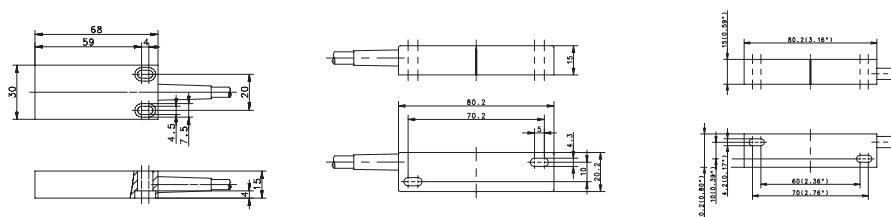
Switching function	NO contact	6311211541		6311201095		6311245539
	Type	MAK-1112-B-1		MAK-0112-B-2		MAK-4512-B-1
NC contact	Type					
	Changeover contact					
Type					6316345540	
	Bistable		6311411603		MAK-4513-L-1	
Type		MAK-1114-B-5				

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	-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	PA, black	PA, black	PA, black	PA	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	2 x 0.14 mm ²

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



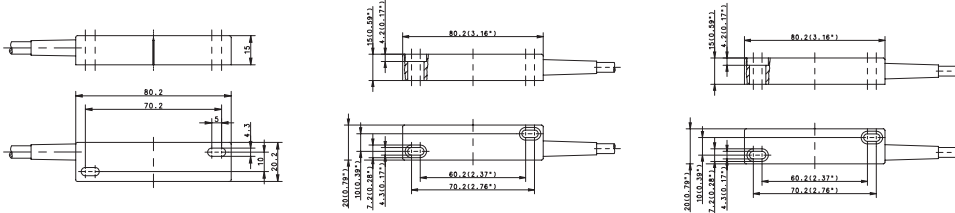
Switching function	NO contact	6316313004		6315302309	6315312196	6314402566	6419402397
	Type	MAK-1313-L-1		MAK-0213-K-1	MAK-1213-K-1	MAA-0214-FT-3	MAK-0214-P-3
NC contact	Type						
	Changeover contact						
Type							
	Bistable						

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	0.5 A	3 A	5 A
Performance class (diagram No.)	60 VA	30 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	-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	IP67
Enclosure material	PC, red	PA, black	PA, red	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	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	
----------------------------	----------------------------	----------------------------	----------------------------	----------------------------	----------------------------	--

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	

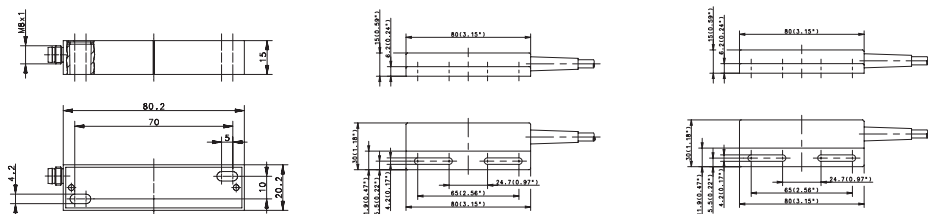
-5°C/+70°C	-5°C/+70°C	-5°C/+70°C	-5°C/+70°C	-5°C/+70°C	-5°C/+70°C	
IP67	IP67	IP67	IP67	IP67	IP67	
PA, black	PA, black	PA, red	PA, black	PA, red	PA, red	
2 x 0.75 mm ²	2 x 0.75 mm ²	2 x 0.5 mm ²	3 x 0.5 mm ²	3 x 0.5 mm ²	2 x 0.5 mm ²	

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				



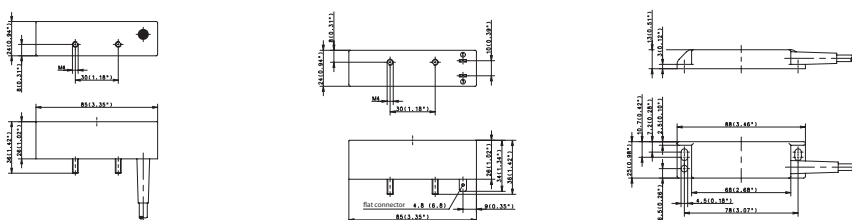
Switching function	80x20x15 mm		80x30x15 mm		80x30x15 mm	
	NO contact Type	NC contact Type	Changeover contact Type	Bistable Type	NO contact Type	NC contact Type
	6310302636 MAA-0213-STK	6316302389 MAA-0213-LT-1	6314144542 MAK-4411-F-1	6314244536 MAK-4412-F-1	6310444537 MAK-4414-P-1	6317344538 MAK-4413-M-1

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			



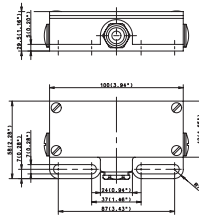
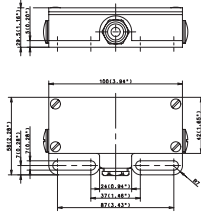
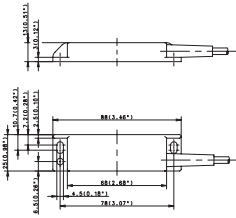
Switching function	85x24x26 mm		85x24x26 mm		88x25x13 mm	
	NO contact Type	NC contact Type	Changeover contact Type	Bistable Type	NO contact Type	NC contact Type
	6314432609 MAK-3214-F-3	6310432598 MAK-3214-P-1	6310432590 MAK-3214-P-STK4.8		6317342535 MAK-4213-M-1	6314242533 MAK-4212-F-1

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	



			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 ²	2 x 0.5 mm ²	max. 1.5 mm ²	max. 1.5 mm ²	max. 1.5 mm ²	

