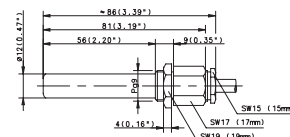
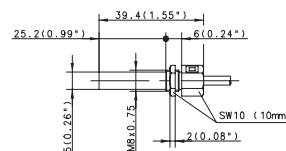
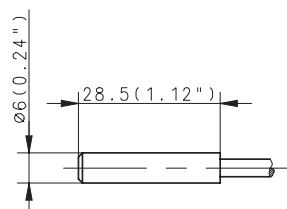


Magnetic Switches (Type Ø 6 mm, Ø 6.5 mm, Ø 12 mm, Ø 13 mm)

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						



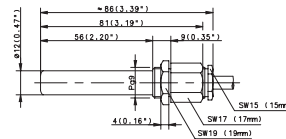
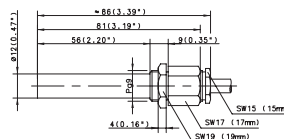
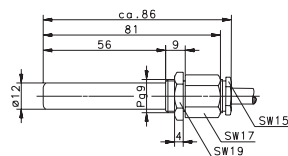
Switching function	NO contact	6311230571	6310246500		6314206246
	Type	MAK-3012-B-1	MAK-4612-A-2		MAA-0612-F-1
	NC contact				
	Type				
	Changeover contact	6310330572		6317306315	
Type		MAK-3013-X-1		MAA-0613-M-1	
Type					
Type					
Type					

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			



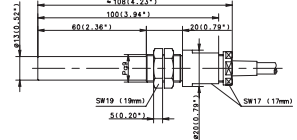
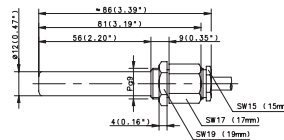
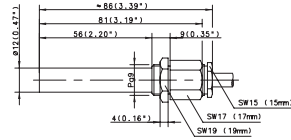
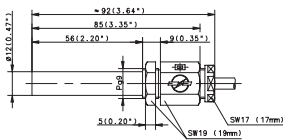
Switching function	NO contact	6312206321	6314216476	6314216585	6314226423	
	Type	MAA-0612-D-1	MAN-1612-F-3	MAN-1612-FT-8	MAK-2612-F-1	
	NC contact					
	Changeover contact					
	Type					
Type						
Type						
Type						
Type						

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 1 m	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

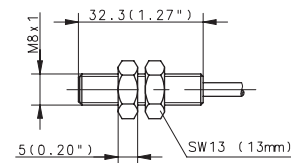
250 V	250 V	250 V	250 V	250 V	250 V	250 V	250 V
1 A	0.5 A	1.5 A	5 A	1 A	1 A	5 A	1 A
60 VA	30 VA	50 VA	250 VA	60 VA	60 VA	250 VA	60 VA

-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				



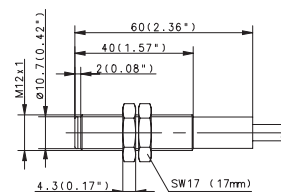
Switching function	NO contact Type					6311208596 MAN-0812-B-1	
	NC contact Type						
	Changeover contact Type	6317304313 MAK-0413-M-S		6310308597 MAN-0813-Y-1	6310308595 MAN-0813-STK		
	Bistable Type						

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						



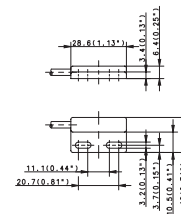
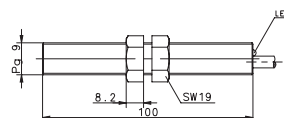
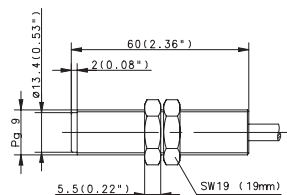
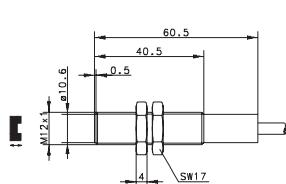
Switching function	NO contact	6314223268	6314233002			6416228260	6311218294
	Type	MAM-2312-F-1	MAK-3312-F-2			MAK-2812-L-3	MAM-1812-B-1
	NC contact						
	Changeover contact			6316333005	6316318002		
	Type			MAK-3313-L-1	MAM-1813-L-1		
	Bistable						

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	28.6x18x6.4mm	
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		6316343544 MAM-4313-L-2		6310431569 MAM-3114-2-LED		6310311615 MAK-1113-1	6410311368 MAK-1113-1,5
	6410433350 MAK-3314-P-2						

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)					

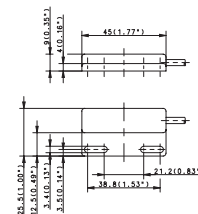
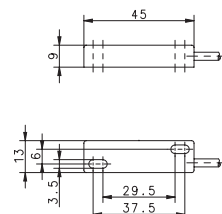
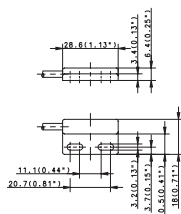
-5°C/+70°C	-25°C/+70°C	-5°C/+80°C	-5°C/+80°C	-5°C/+70°C	-20°C/+70°C
IP67	IP67	IP65	IP65	IP67	IP67
CuZn39Pb3	PA, red	CuZn39Pb3	CuZn39Pb3	PA, black	PA
2 x 0.34 mm ²	2 x 0.5 mm ²	3 x 0.5 mm ²	2 x 0.5 mm ²	3 x 0.14 mm ²	3 x 0.14 mm ²

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						



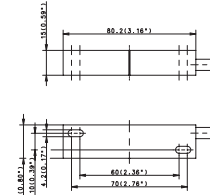
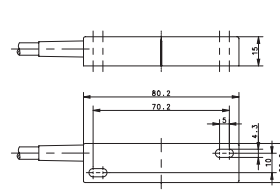
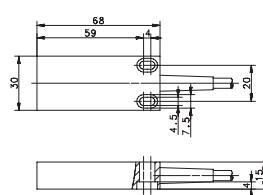
Switching function	NO contact	6311211541	6311201095		6311245539
	Type	MAK-1112-B-1	MAK-0112-B-2		MAK-4512-B-1
	NC contact				
	Type				
	Changeover contact				
Type	Changeover contact				
	Type				
	Bistable				
Type	Bistable	6311411603		6316345540	
	Type	MAK-1114-B-5		MAK-4513-L-1	

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 mm²	2 x 0.14 mm²

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	



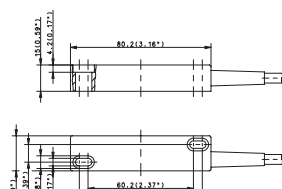
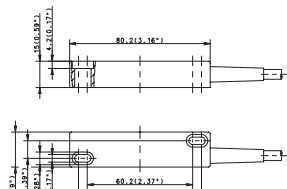
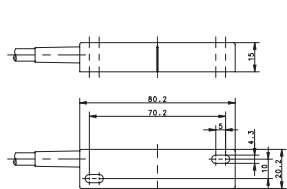
Switching function	NO contact	6316313004	6315302309	6315312196	6314402566	6419402397
	Type	MAK-1313-L-1	MAK-0213-K-1	MAK-1213-K-1	MAA-0214-FT-3	MAK-0214-P-3
	NC contact					
	Changeover contact					
	Type					
Type	Changeover contact					
	Type					
	Bistable					

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 mm²	3 x 0.75 mm²	3 x 0.75 mm²		3 x 0.75 mm²	2 x 0.5 mm²

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	

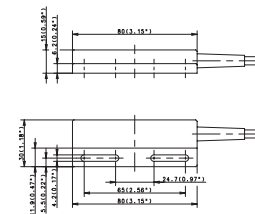
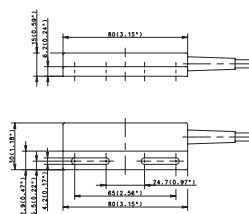
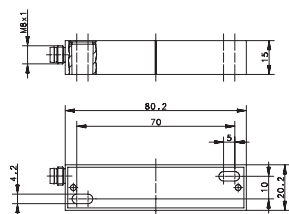
-5°C/+70°C	-5°C/+70°C	-5°C/+70°C	-5°C/+70°C	-5°C/+70°C	-5°C/+70°C	
IP67	IP67	IP67	IP67	IP67	IP67	
PA, black	PA, black	PA, red	PA, black	PA, red	PA, red	
2 x 0.75 mm ²	2 x 0.75 mm ²	2 x 0.5 mm ²	3 x 0.5 mm ²	3 x 0.5 mm ²	2 x 0.5 mm ²	

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				



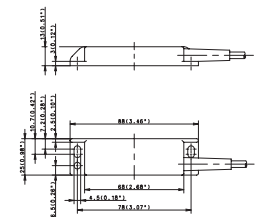
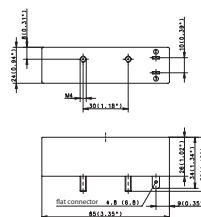
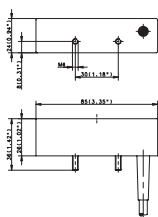
Switching function	NO contact			6314244536 MAK-4412-F-1	
	Type				
	NC contact				
	Type				
	Changeover contact				
Type	Changeover contact				
	Type				
	Bistable				
	Type				
		6310302636 MAA-0213-STK	6316302389 MAA-0213-LT-1	6314144542 MAK-4411-F-1	6317344538 MAK-4413-M-1
				6310444537 MAK-4414-P-1	

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		



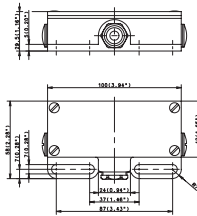
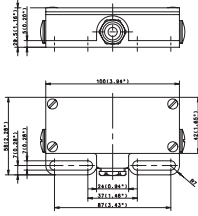
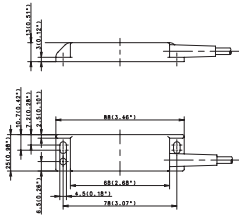
Switching function	NO contact			6314242533 MAK-4212-F-1	
	Type				
	NC contact				
	Changeover contact				
	Type				
Type	Changeover contact				
	Type				
	Bistable				
	Type				
		6314432609 MAK-3214-F-3	6310432598 MAK-3214-P-1	6310432590 MAK-3214-P-STK4.8	6317342535 MAK-4213-M-1

Technical data						
Max. switching voltage	250 V	250 V	250 V	250 V	250 V	250 V
Switching current (max)	3 A	5 A	5 A	1 A	3 A	3 A
Performance class (diagram No.)	100 VA	250 VA	250 VA	80 VA	100 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	-5°C/+70°C
Protection class in accordance with IEC 529, EN 60529	IP67	IP67	IP67	IP67	IP67	IP67
Enclosure material	PBT	PA, black	PBT, black	PA, 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	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	



Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Altech:

[631.6315.001](#) [641.7312.307](#) [641.7343.270](#) [641.9412.313](#) [641.9499.401](#) [641.5106.001](#) [641.5123.187](#)
[641.5318.578](#) [641.5341.265](#) [641.6329.362](#) [641.6342.600](#) [641.4206.323](#) [641.4212.404](#) [641.4216.402](#) [641.4216.525](#)
[641.4226.449](#) [641.4233.412](#) [641.0433.350](#) [641.1201.408](#) [641.1201.474](#) [641.1208.571](#) [641.1211.384](#)
[641.1299.385](#) [641.0206.399](#) [641.0246.365](#) [641.0248.411](#) [641.0311.368](#) [641.0406.324](#) [641.0432.447](#) [641.0202.478](#)
[641.0206.073](#)