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Product Information

General notes

Recommended for outdoor applications for military and avionics equipment, telecommunications, medical equipment, power supplies. The professional toggle and pushbutton switches are in one or two pole version available. The switches are IP 67 front sealed or IP 65 with fitted silicone cap.

Toggle and pushbuttons switches of the DJET series are available in two sizes and fit in front panel mounting hole 10 mm dia. or 6.35 mm dia.

Mounting

The switches are mounted by pushing them through the mounting hole in the front panel. They are fixed with a fixing nut.

*We reserve the right to modify technical data
All dimensions in mm*

Toggle Switch 6.35 mm dia.



	Front protection		Contacts	Contact material	Switching action	Terminals	Typ-Nr.	Mounting dimensions	Technical drawing	Circuit drawing	E-3
	-	Front ring									
Toggle Switch 6.35 mm dia.	-	Metal chrome	1 C	Au	MA-MA	S	11.17352.21	1	13	2	0.005
				Ag	MA-MA	S	01.17301.21	1	13	2	0.005
				2 C	Ag	MA-MA	S	02.17312.21	1	12	1

Front protection: - = without

Contacts: C = Changeover

Contact material: Au = Gold, Ag = Silver

Switching action: MA = Maintained action

Terminals: S = Soldering terminal

Mounting dimensions from page 10, Technical drawing from page 10, Circuit drawing from page 13

Toggle Switch 10 mm dia.



	Front protection		Terminals	Switching action	Contact material	Contacts	Typ-Nr.	Mounting dimensions	Technical drawing	Circuit drawing	E-3				
	-	Front ring													
Toggle Switch 10 mm dia.	IP 67	Metal mat-black	S	MA-MA	Au	1 C	11.17201.30	2	14	2	0.011				
						Metal mat-chrome	S	MA-MA	Au	1 C	11.17201.22	2	14	2	0.011
										Ag	1 C	11.17271.22	2	14	2
	keine	Metal chrome	S	MA-MA	Au	1 C	11.17051.21	2	15	2	0.010				
						2 C	12.17063.21	2	16	1	0.020				
						Ag	1 C	01.17001.21	2	15	2	0.010			
							2 C	02.17013.21	2	16	1	0.020			

Front protection:

Terminals: S = Soldering terminal

Switching action: MA = Maintained action

Contact material: Au = Gold, Ag = Silver


Contacts: C = Changeover


Mounting dimensions from page 10, Technical drawing from page 10, Circuit drawing from page 13

Pushbutton 6.35 mm dia.



Essential Accessories:

 Cap for pushbutton 6.35 mm page 7

	Front protection	Front ring	Terminals	Switching action	Contact material	Contacts	Typ-Nr.	Mounting dimensions	Technical drawing	Circuit drawing	
Pushbutton 6.35 mm dia.	-	Metal chrome	S	MA-M	Au	1 C	17.17851.21	1	6	2	0.007
					Ag	1 C	17.17801.21	1	6	2	0.007
		Metal mat-black	S	MA-M	Au	1 C	17.17851.30	1	6	2	0.007

Front protection: - = without

Terminals: S = Soldering terminal

Switching action: MA = Maintained action, M = Momentary action

Contact material: Au = Gold, Ag = Silver

Contacts: C = Changeover

Mounting dimensions from page 10, Technical drawing from page 10, Circuit drawing from page 13

Pushbutton 10 mm dia.



Essential Accessories:

 Cap for Pushbutton 10 mm dia. page 7

	Front protection	Front ring	Terminals	Switching action	Contact material	Contacts	Typ-Nr.	Mounting dimensions	Technical drawing	Circuit drawing	
Pushbutton 10 mm dia.	IP 67	Metal chrome	S	MA-M	Au	2 C	18.17253.22	2	10	1	0.020
					Ag	2 C	18.17283.22	2	10	1	0.020
		Metal mat-black	S	MA-M	Au	1 C	17.17252.30	2	7	2	0.010
						2 C	18.17253.30	2	10	1	0.020
		Metal mat-chrome	S	MA-M	Au	1 C	17.17252.22	2	7	2	0.010
					Ag	1 C	17.17282.22	2	7	2	0.010
	-	Metal chrome	S	MA-M	Au	1 C	17.17552.21	2	8	2	0.010
						2 C	18.17563.21	2	11	1	0.020
					Ag	2 C	18.17513.21	2	11	1	0.020
		Metal mat-black	S	MA-M	Au	1 C	17.17551.30	2	9	2	0.010
							17.17552.30	2	8	2	0.010

Front protection: - = without

Terminals: S = Soldering terminal

Switching action: MA = Maintained action, M = Momentary action

Contact material: Au = Gold, Ag = Silver

Contacts: C = Changeover

Mounting dimensions from page 10, Technical drawing from page 10, Circuit drawing from page 13

Front

Cap for pushbutton 6.35 mm

	Cap	Typ-Nr.	Technical drawing	
Cap for pushbutton 6.35 mm	Plastic black	20.17804.01	4	0.001
	Plastic green	20.17804.03	4	0.001
	Plastic red	20.17804.02	4	0.001

Technical drawing from page 10



Paddel for Toggle Switch 6.35 mm dia.

	Paddle	Typ-Nr.	Technical drawing	
Paddel for Toggle Switch 6.35 mm dia.	Plastic black	20.17354.01	5	0.001

Technical drawing from page 10



Cap for Pushbutton 10 mm dia.

	Cap	Typ-Nr.	Technical drawing		
Cap for Pushbutton 10 mm dia. 13 mm dia.	Plastic black	20.17254.01	1	0.001	
	9 mm dia.	Plastic black	20.17504.01	4	0.001
		Plastic red	20.17504.02	4	0.001

Technical drawing from page 10




Protective cap for pushbutton 10 mm dia.

	Front ring	Typ-Nr.	Technical drawing	
Protective cap for pushbutton 10 mm dia. with black silicone cap	Metal chrome	20.17292.21	2	0.004

Technical drawing from page 10



Protective cap for toggle switch 10 mm dia.

	Front ring	Typ-Nr.	Technical drawing	
Protective cap for toggle switch 10 mm dia. with black silicone cap	Metal chrome	20.17291.21	3	0.004 



Technical drawing from page 10

Toggle and Pushbutton Switch

Switching system

Positive snap-action

Material

Material of contact

Gold contacts: Gold/gold plated brass contacts

Silver contacts: Solid silver/silver-plated contacts

Shock resistance

100 g, as per IEC 60512-4

Resistance to vibrations

10 g, 10 ... 2000 Hz, 10 cycles, as per IEC 60512-4

Damp heat

56 days (Gold contact versions only)

Approvals

RoHS compliant

Mechanical characteristics

Front panel thickness

Min. 1.2 mm

Terminals

Gold contacts: Gold plated brass

Silver contacts: Silver plated brass

Tightening torque

Rear nut 125 Ncm

Do not tighten by means of top nut!

Electrical characteristics

Operating voltage/-current

10 V, 50 mA minimum (silver contacts)

10 mV, 100 μ A (gold contacts)

Isolation resistance

>100 000 M Ω at 500 VDC

Contact resistance

<10 m Ω

Electrical life

100 000 operations

Switch rating

Resistive circuit

Voltage	220 VAC	110 VAC	48 VDC	24 VDC	12 VDC
Current	1.5 A	2.5 A	1 A	2.25 A	4.5 A

Inductive circuit

50 % of above values

Electric strength

1000 V_{rms}, 50 Hz between terminals on the same pole

2000 V_{rms}, 50 Hz between all terminals connected together and ground

2000 V_{rms}, 50 Hz between terminals of adjacent poles

Environmental conditions

Storage temperature

-40 °C ... +85 °C

Operating temperature

-40 °C ... +85 °C

Protection degree

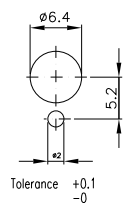
IP 67 (sealed 10 mm dia. version only)

IP 65 with protective cap

Mounting dimensions

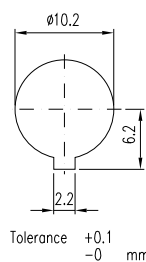
1 Toggle Switch 6.35 mm dia. page 4 | Pushbutton 6.35 mm dia. page 5

FRONT PANEL
MOUNTING HOLE:



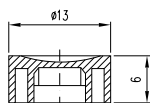
2 Toggle Switch 10 mm dia. page 4 | Pushbutton 10 mm dia. page 6

FRONT PANEL
MOUNTING HOLE:

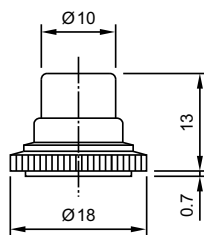


Technical drawing

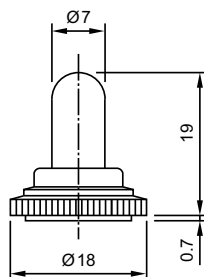
1 Cap for Pushbutton 10 mm dia. page 7



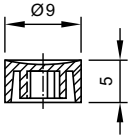
2 Protective cap for pushbutton 10 mm dia. page 7



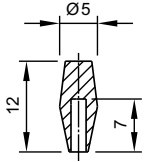
3 Protective cap for toggle switch 10 mm dia. page 8



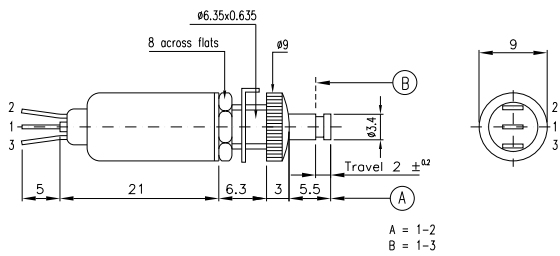
4 Cap for pushbutton 6.35 mm page 7 | Cap for Pushbutton 10 mm dia. page 7



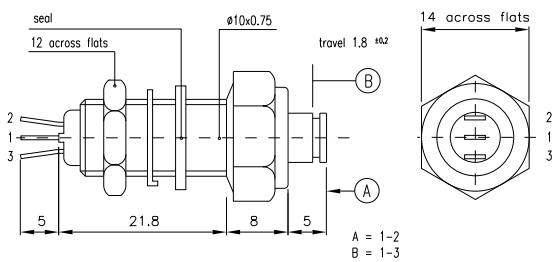
5 Paddel for Toggle Switch 6.35 mm dia. page 7



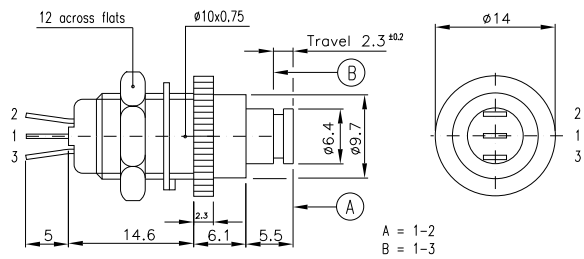
6 Pushbutton 6.35 mm dia. page 5



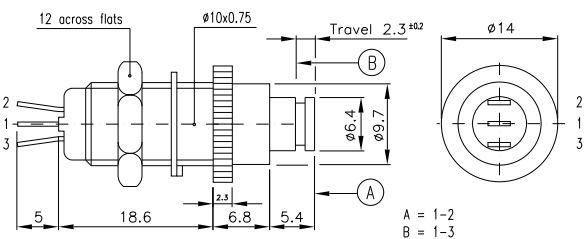
7 Pushbutton 10 mm dia. page 6



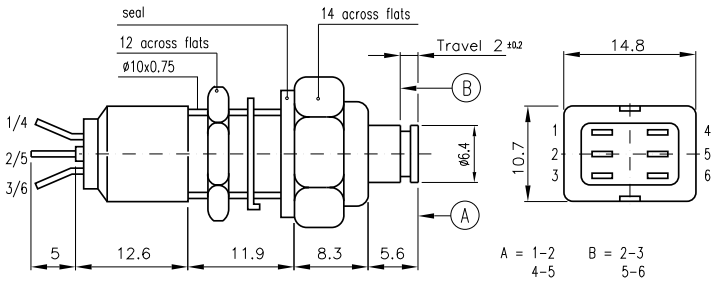
8 Pushbutton 10 mm dia. page 6



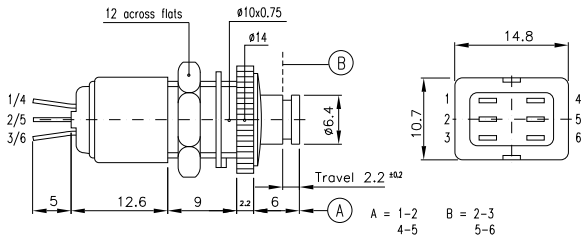
9 Pushbutton 10 mm dia. page 6



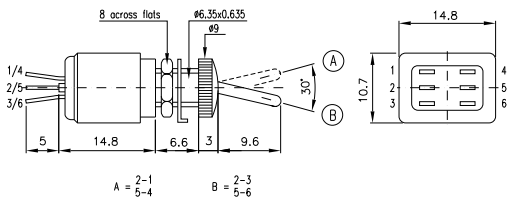
10 Pushbutton 10 mm dia. page 6



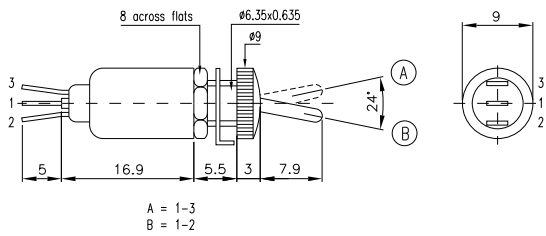
11 Pushbutton 10 mm dia. page 6



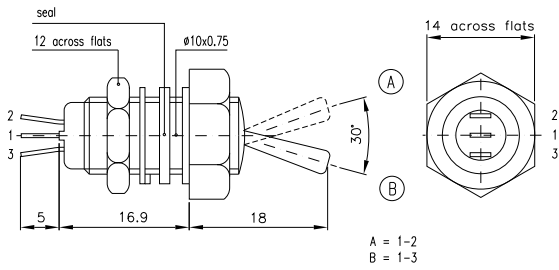
12 Toggle Switch 6.35 mm dia. page 4



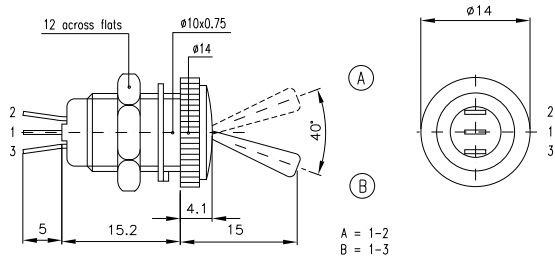
13 Toggle Switch 6.35 mm dia. page 4



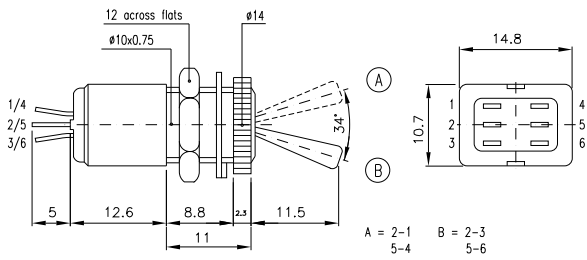
14 Toggle Switch 10 mm dia. page 4



15 Toggle Switch 10 mm dia. page 4

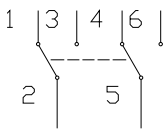


16 Toggle Switch 10 mm dia. page 4

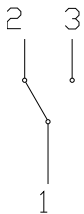


Circuit drawing

1 Toggle Switch 6.35 mm dia. page 4 | Toggle Switch 10 mm dia. page 4 | Pushbutton 10 mm dia. page 6



2 Toggle Switch 6.35 mm dia. page 4 | Toggle Switch 10 mm dia. page 4 | Pushbutton 6.35 mm dia. page 5 | Pushbutton 10 mm dia. page 6



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11.17201.22	4				
11.17201.30	4				
11.17271.22	4				
11.17352.21	4				
12.17063.21	4				
12.17273.22	4				
17.17252.22	6				
17.17252.30	6				
17.17282.22	6				
17.17551.30	6				
17.17552.21	6				
17.17552.30	6				
17.17801.21	5				
17.17851.21	5				
17.17851.30	5				
18.17253.22	6				
18.17253.30	6				
18.17283.22	6				
18.17513.21	6				
18.17563.21	6				
20.17254.01	7				
20.17291.21	8				
20.17292.21	7				
20.17354.01	7				
20.17504.01	7				
20.17504.02	7				
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