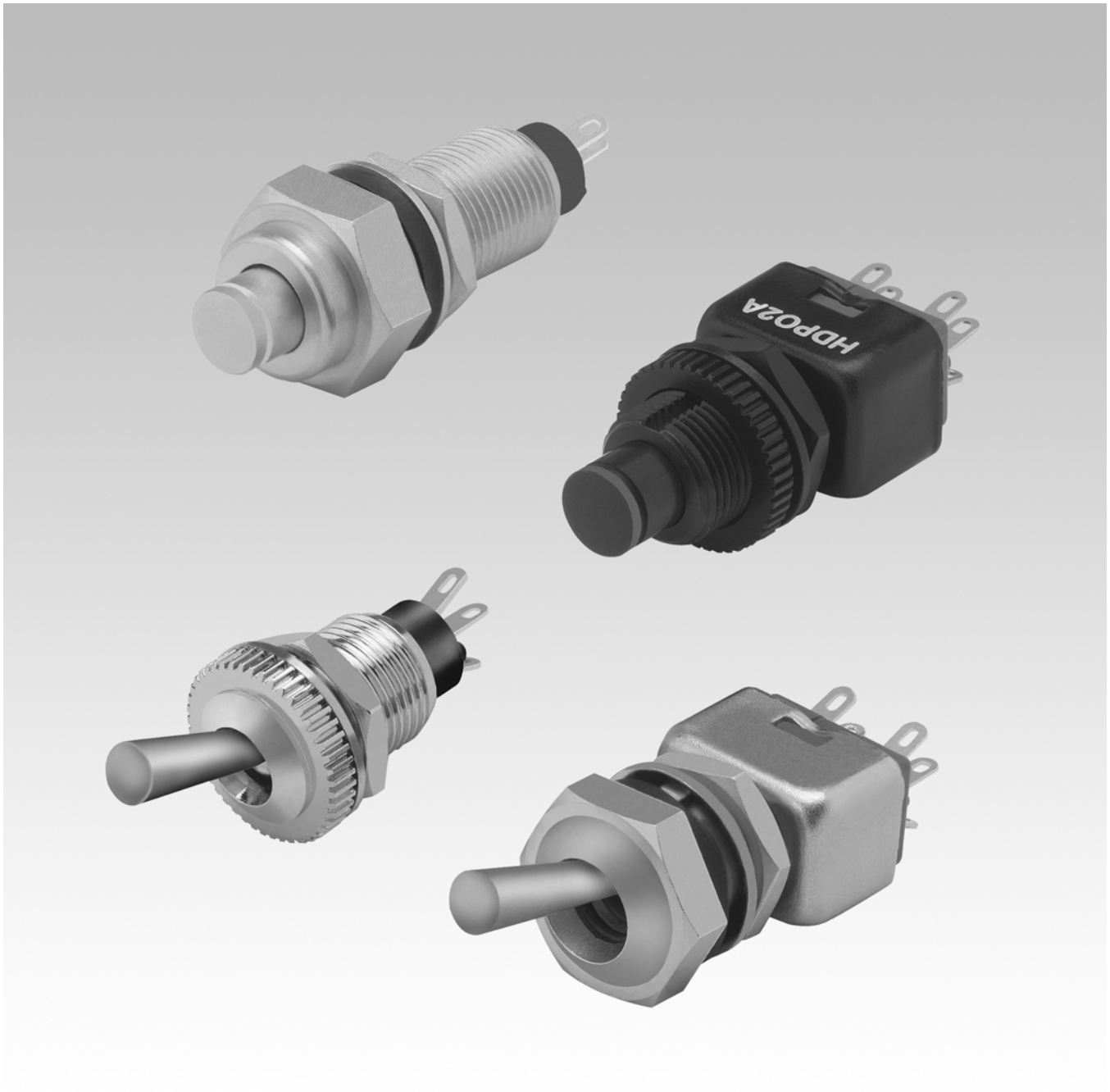

HDP02A

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	Front ring	Contacts	Contact material	Switching action	Terminals	Typ-Nr.	Mounting dimensions	Technical drawing	Circuit drawing	kg
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	0.010

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	Front ring	Terminals	Switching action	Contact material	Contacts	Typ-Nr.	Mounting dimensions	Technical drawing	Circuit drawing	kg
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	0.011
						2 C	**12.17273.22**	2	16	1	0.020
	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	kg
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	kg
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	kg
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	kg
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	kg
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	kg
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	kg
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

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 µA (gold contacts)

Isolation resistance
>100 000 MΩ at 500 VDC

Contact resistance
<10 mΩ

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

Shock resistance
100 g, as per IEC 60512-4

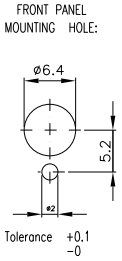
Resistance to vibrations
10 g, 10 ... 2000 Hz, 10 cycles, as per IEC 60512-4

Damp heat
56 days (Gold contact versions only)

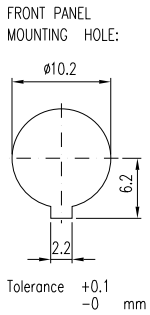
Approvals
RoHS compliant

Mounting dimensions

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

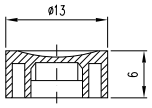


2 Toggle Switch 10 mm dia. page 4 **| Pushbutton 10 mm dia.** page 6

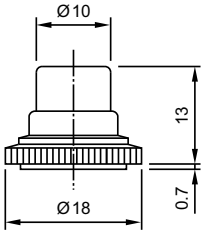


Technical drawing

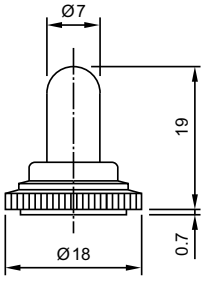
1 Cap for Pushbutton 10 mm dia. page 7



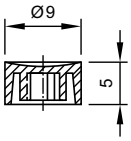
2 Protective cap for pushbutton 10 mm dia. page 7



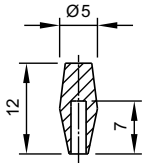
3 Protective cap for toggle switch 10 mm dia. page 8



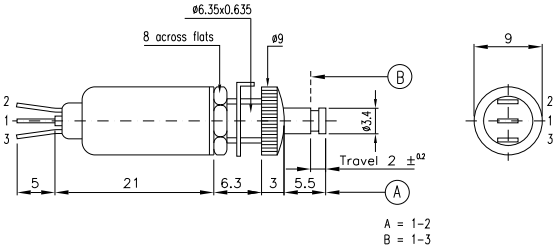
4 Cap for pushbutton 6.35 mm page 7 **| Cap for Pushbutton 10 mm dia.** page 7



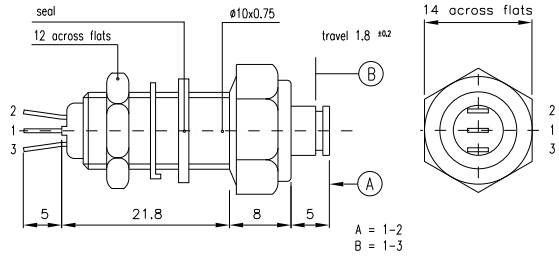
5 Paddel for Toggle Switch 6.35 mm dia. page 7



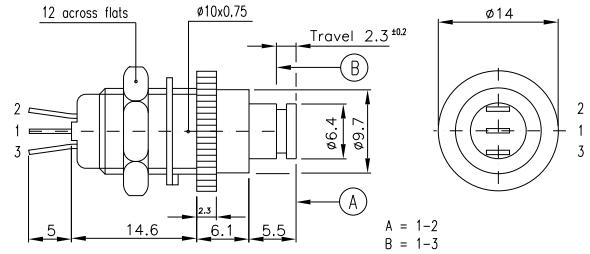
6 Pushbutton 6.35 mm dia. page 5



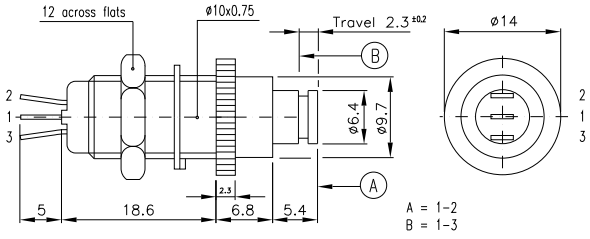
7 Pushbutton 10 mm dia. page 6



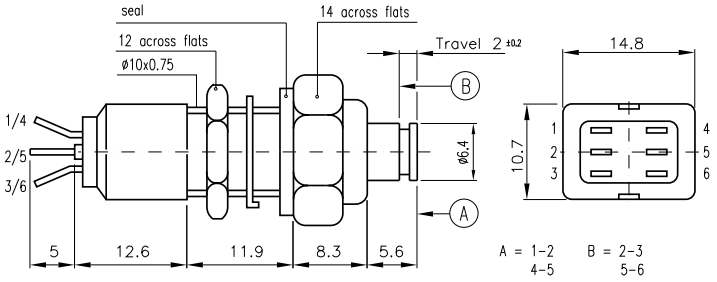
8 Pushbutton 10 mm dia. page 6



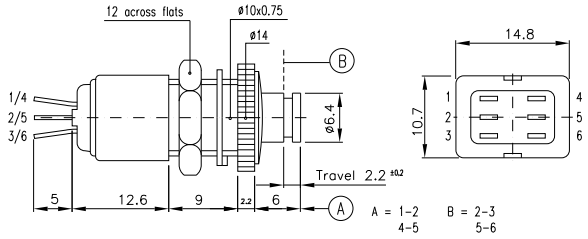
9 Pushbutton 10 mm dia. page 6



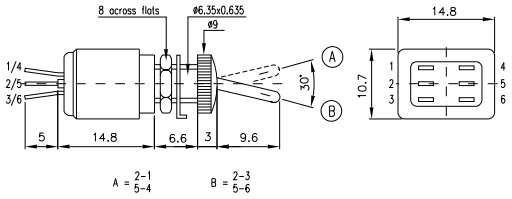
10 Pushbutton 10 mm dia. page 6



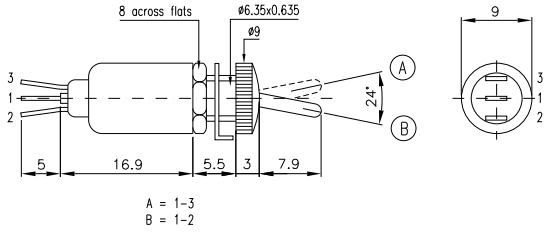
11 Pushbutton 10 mm dia. page 6



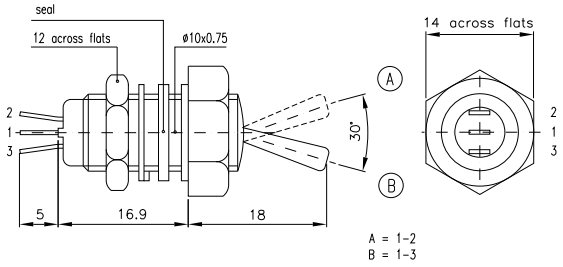
12 Toggle Switch 6.35 mm dia. page 4



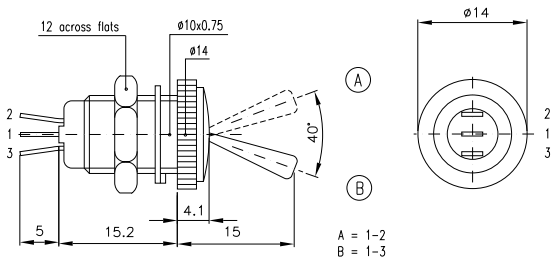
13 Toggle Switch 6.35 mm dia. page 4



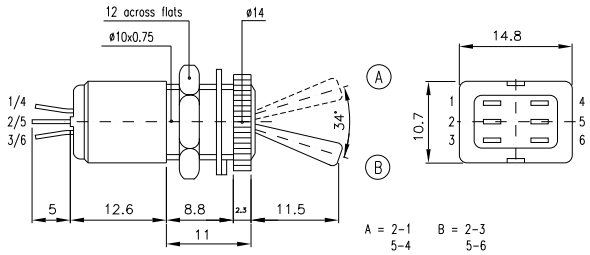
14 Toggle Switch 10 mm dia. page 4



15 Toggle Switch 10 mm dia. page 4

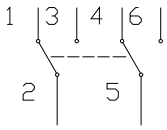


16 Toggle Switch 10 mm dia. page 4

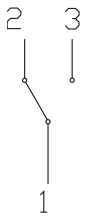


Circuit drawing

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



Index from Typ-Nr.