

PANORAMIC RANGE

PUSHBUTTONS	1 pole		2 pole	3 pole	4 pole
	Ø12	Ø14	Ø14		
					
Waterproof front face	Y/N		Y/N	N	N
Function	NO, NC or NO/NC		2 x NO/NC	3 x NO/NC	4 x NO/NC
Button	Ø4, Ø5, Ø7, Ø9.4 short or round or rectangular		Ø5, Ø9.4 or rectangular	Ø9	Ø8
Color	Black/Red/Grey/White/Blue		Black/Red/Grey/White/Blue	Black	Red
Terminal	Silver or Gold		Silver or Gold	Gold	Gold
Accessories	Monostable flap Bistable flap Bistable flap with auxiliary contact Electroluminescent ring		Monostable flap Bistable flap Bistable flap with auxiliary contact Electroluminescent ring	Monostable flap Bistable flap Bistable flap with auxiliary contact	Monostable flap Bistable flap Bistable flap with auxiliary contact

THUMBSTICK	Analogue	Analogue + validation
	Ø14	Ø24
		
Waterproof front face	Y	Y
Function	0 → 15 V	0 → 15 V
Button	Convex	Convex
Color	Black	Black
Terminal	Solder	Solder

MULTIWAY	2-way		2-way + validation	4-way	4-way double pole	4-way + validation
	Ø16	Ø18	Ø24	Ø16	Ø24	Ø24
						
Waterproof front face	Y/N	N	Y	Y/N	Y	Y
Function	NO	NO	NO	NO	NO	NO, NO/NC
Button	Rectangular, Concave, Convex	Convex	Cone, Concave, Convex, Castle	Concave, Cone, Convex, Long bat, Medium bat, short bat	Cone	Cone, Concave, Chinese, Castle
Color	Black	Black	Black	Black	Black/Grey	Black
Terminal	Silver or Gold	Silver or Gold	Silver or Gold	Silver, Gold or Tined	Silver	Silver or Gold

TRIGGER	1 position	2 positions
		
Waterproof front face	Y/N	Y/N
Function	NO, NC or NO/NC	2 x NO/NC or 4 x NO/NC
Color	Red/Black/Grey	Red/Black/Grey
Terminal	Silver or Gold	Silver or Gold

TRIM SWITCH	2-way		2-way + validation	4-way + validation
	Ø24	Customized	Ø24	Ø24
				
Waterproof front face	N		N	N
Function	2 x NO/NC + 2 x NO/NC		2 x NO + NO	4 x NO + NO
Button	Chinese	Pyramidal	Round	Round
Color	Black		Black	Black
Terminal	Gold		Silver	Silver

ROCKER	3 positions	3 positions	5 positions
			
Waterproof front face	N	N	N
Function	1x NO/NC + 1x NO/NC	2x NO/NC + 2x NO/NC	1x NO/NC + 1x NO/NC + 1x NO/NC + 1x NO/NC
Button	Rectangular	Gendarme	Rectangular
Color	Black	Black	Black
Terminal	Silver	Silver	Silver

TOGGLE (CONSULT US)	2 positions		3 positions	
	Ø6	Ø12	Ø6	Ø12
				
Waterproof front face	N	N	N	N
Function	1x NO + 1x NC	2 x NO + 2 x NC	2 x NO + 2 x NC	2 x NO + 2 x NC
Color	Black/Chrome	Black/Chrome	Chrome	Black/Chrome
Terminal	Silver	Gold	Silver	Silver or Gold
Accessories	Grey cap			

BUTTON PROTECTION			
Circular	Metallic flap guard	Plastic flap guard	Plastic flap guard with auxiliary contacts
			



ROCKER SWITCH

Electrical configuration	3 positions			3 positions + validation	5 positions
	2 x NO/NC + 2 x NO/NC	2 x NO/NC + 2 x NO/NC	1 x NO/NC + 1 x NO/NC	1 x NO/NC + 1 x NO/NC	1 x NO/NC + 1 x NO/NC
Flat	83450706	♦	83450503	83454201	83450505
Gendarme	♦	83450709	♦	♦	♦

Mechanical characteristics

Operating force per direction	9 N max	4 N max	10 N max	2.5 N	17 N → 25 N
Release force	1.2 N min	0.6 N min	2 N min	2 N min	2 N min
Permissible force at end of travel	50 N	40 N	80 N	80 N	80 N
Mechanical life	100 000 cycles	400 000 cycles	100 000 cycles	50 000 cycles	100 000 cycles

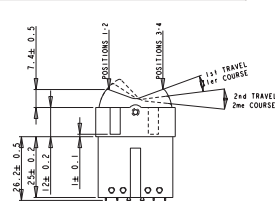
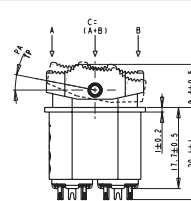
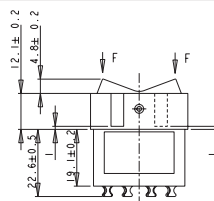
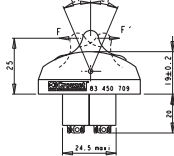
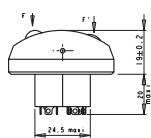
Electrical characteristics

Voltage	5 VDC to 28 VDC	5 VDC to 28 VDC	5 VDC to 28 VDC	5 VDC to 28 VDC	5 VDC to 32 VDC
Current (resistor)	1 mA to 5 A	1 mA to 5 A	1 mA to 5 A	1 mA to 5 A	1 mA to 5 A
Current max @ 30VCC (self)	2 A	2 A	3.5 A	4 A	2 A
Current max @ 115VAC 400Hz (self)	2 A	2 A	2.5 A	1 A	2 A
Contact resistance	25 mOhm	25 mOhm	25 mOhm	25 mOhm	25 mOhm
Electrical life per direction	100 000 cycles	200 000 cycles	100 000 cycles	50 000 cycles	50 000 cycles

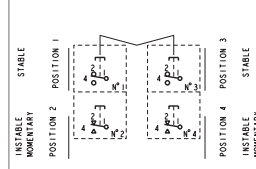
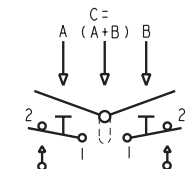
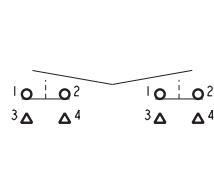
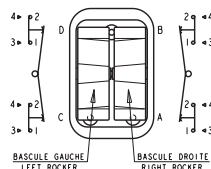
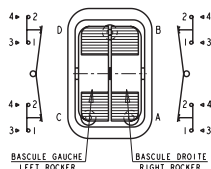
General characteristics

Case	black polyamid 6.6	black polyamid 6.6	black polyamid 6.6	aluminum alloy	black polyamid 6.6
Actuator	black polyamid 6.6	black polyamid 6.6	resin acetate	aluminum alloy	resin acetate
Terminal	solder lugs, silver plated	solder lugs, silver plated	solder lugs, silver plated	solder lugs, silver plated	solder lugs, silver plated
Contact	silver	silver	silver	silver	silver
Operating temperature	-55°C → +85°C	-55°C → +85°C	-55°C → +85°C	-40°C → +70°C	-15°C → +60°C
Storage temperature	-55°C → +85°C	-55°C → +85°C	-55°C → +85°C	-55°C → +85°C	-55°C → +85°C
Weight	35g	35g	18g	12g	29g

Dimensions



Electrical diagram



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