


# PANORAMIC RANGE



PUSHBUTTONS	1 pole		2 pole	3 pole	4 pole
	Ø12	Ø14	Ø14		
					
<b>Waterproof front face</b>	Y/N		Y/N	N	N
<b>Function</b>	NO, NC or NO/NC		2 x NO/NC	3 x NO/NC	4 x NO/NC
<b>Button</b>	Ø4, Ø5, Ø7, Ø9.4 short or round or rectangular		Ø5, Ø9.4 or rectangular	Ø9	Ø8
<b>Color</b>	Black/Red/Grey/White/Blue		Black/Red/Grey/White/Blue	Black	Red
<b>Terminal</b>	Silver or Gold		Silver or Gold	Gold	Gold
<b>Accessories</b>	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
		
<b>Waterproof front face</b>	Y	Y
<b>Function</b>	0 → 15 V	0 → 15 V
<b>Button</b>	Convex	Convex
<b>Color</b>	Black	Black
<b>Terminal</b>	Solder	Solder

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

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

# MULTIWAY

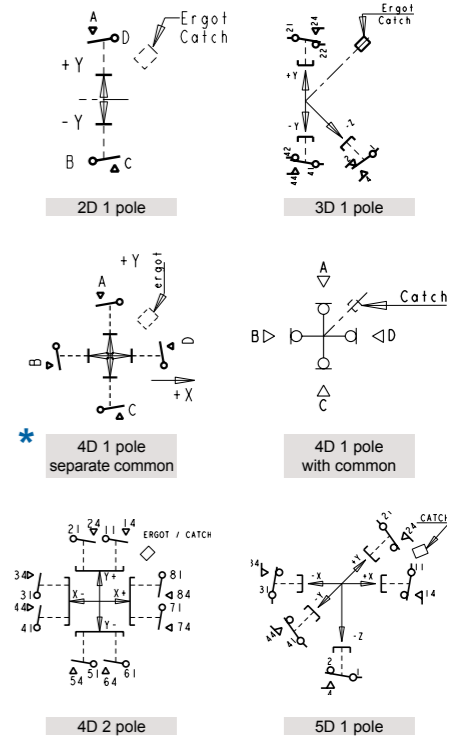
			Color	Electrical Configuration	Chinese	Chinese small	Chinese large	Rocker	Convex streak	Convex cross	Concave	Castle	Bat	Square	Convex + insert	QuickFix®	
2D	1 pole Ø 16	non waterproof	black	NO	♦	♦	♦	83452504	83452515	♦	♦	♦	♦	♦	83452531	♦	
		waterproof front face	black	NO	♦	♦	♦	83452518	83452519	♦	♦	♦	♦	♦	♦	♦	♦
			grey	NO				83452510									
3D	1 pole Ø 24	waterproof front face	black	NO	83452709	♦	♦	♦	83452721 83452722	♦	83452718	♦	♦	♦	♦	♦	
4D	1 pole Ø 16	non waterproof	black	NO	83452501 83452502 83452506 83452533	♦	♦	♦	♦	83452538	83452505 83452514	♦	♦	83452520	♦	♦	
					waterproof front face	black	NO	83452516 83452521 83452524 83452525 83452529 83452534 83452572	83452570	83452576	♦	♦	♦	83452523 83452526 83452530 83452543 83452575	♦	83452535 83452540 83452578	83452527 83452539
		blue	NO	♦				♦	♦	♦	83452542	♦	♦	♦	♦	♦	♦
		grey	NO	♦	♦	♦	♦	83452511	♦	♦	♦	♦	♦	♦	♦	♦	♦
4D	2 pole Ø 24	waterproof front face	black	NO	83452513	♦	♦	♦	♦	♦	♦	♦	♦	83452528	♦	♦	
			grey	NO	83452509	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦	♦
5D	1 pole Ø 24	waterproof front face	black	NO	83452701 83452706	♦	♦	♦	♦	♦	83452711 83452719	83452708	♦	♦	♦	♦	
				NO/NC	83452702 83452707 83452717	♦	♦	♦	♦	♦	83452712	83452720	♦	♦	♦	♦	♦

CONTACT US FOR ANY MISSING REFERENCE

Low level - Gold plated

	2D		3D		4D		4D		5D	
	1 pole Ø 16		1 pole Ø 24		1 pole Ø 16		2 pole Ø 24		1 pole Ø 24	
	non waterproof	waterproof front face	waterproof front face		non waterproof	waterproof front face	waterproof front face		waterproof front face	
<b>Mechanical characteristics</b>										
Operating force	3.5 N		3 N		3.5 N		6 N		3 N	
Release force	0.6 N		0.6 N		0.6 N		1 N		0.6 N	
Permissible force at end of travel	70 N max		70 N max		70 N max		70 N max		70 N max	
Button strengthness pulling action	25 N max		25 N max		25 N max		80 N max		25 N max	
Button strengthness pushing action	100 N max		100 N max		100 N max		100 N max		100 N max	
Angle measured from axis to full travel	12°		12°		12°		12°		12°	
Mechanical life	100 000 up to 500 000 cycles		100 000 cycles		100 000 up to 500 000 cycles		100 000 cycles		100 000 cycles	
<b>Electrical characteristics</b>										
Output common	Separate or common		Separate		Separate or common		Separate		Separate	
Voltage	5 VCC to 115 VAC 400 Hz		5 VCC to 115 VAC 400 Hz		5 VCC to 115 VAC 400 Hz		5 VCC to 115 VAC 400 Hz		5 VCC to 115 VAC 400 Hz	
Current (resistive load)	0.5 mA to 2 A		0.5 mA to 2 A		0.5 mA to 2 A		0.5 mA to 2 A		0.5 mA to 2 A	
Current (Inductive load)	1 A		1 A		1 A		1 A		1 A	
Contact resistance	25 mOhm		25 mOhm		25 mOhm		25 mOhm		25 mOhm	
Contact	silver or gold plated		silver or gold plated		silver or gold plated		silver or gold plated		silver or gold plated	
Electrical life	100 000 cycles		100 000 cycles		100 000 cycles		100 000 cycles		100 000 cycles	
Dielectric strength	1 200 V		1 200 V		1 200 V		1 200 V		1 200 V	
<b>General characteristics</b>										
Case	polyamid 6.6 reinforced with 30% fiberglass		polyamid 6.6 reinforced with 30% fiberglass		polyamid 6.6 reinforced with 30% fiberglass		polyamid 6.6 reinforced with 30% fiberglass		polyamid 6.6 reinforced with 30% fiberglass	
Button	acetate resin		acetate resin		acetate resin		acetate resin		acetate resin	
Terminal	Solder lugs W2 silver		Solder lugs W2 silver		Solder lugs W2 silver		Solder lugs W2 silver		Solder lugs W2 silver	
Waterproof front face	MIL STD 810 D-506.2 methode 2		MIL STD 810 D-506.2 methode 2		MIL STD 810 D-506.2 methode 2		MIL STD 810 D-506.2 methode 2		MIL STD 810 D-506.2 methode 2	
Fixation	screw, glue		screw, glue		screw, glue		screw, glue		screw, glue	
Operating temperature	-55°C → +85°C		-55°C → +85°C		-55°C → +85°C		-55°C → +85°C		-55°C → +85°C	
Storage temperature	-55°C → +85°C		-55°C → +85°C		-55°C → +85°C		-55°C → +85°C		-55°C → +85°C	
Weight	7.3g ±5% < M <15.7g ±5%		16g		7.3g ±5% < M <15.7g ±5%		13g		16g	

## Electrical diagram



## Dimensions

