

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
			

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	◆	83452301
		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

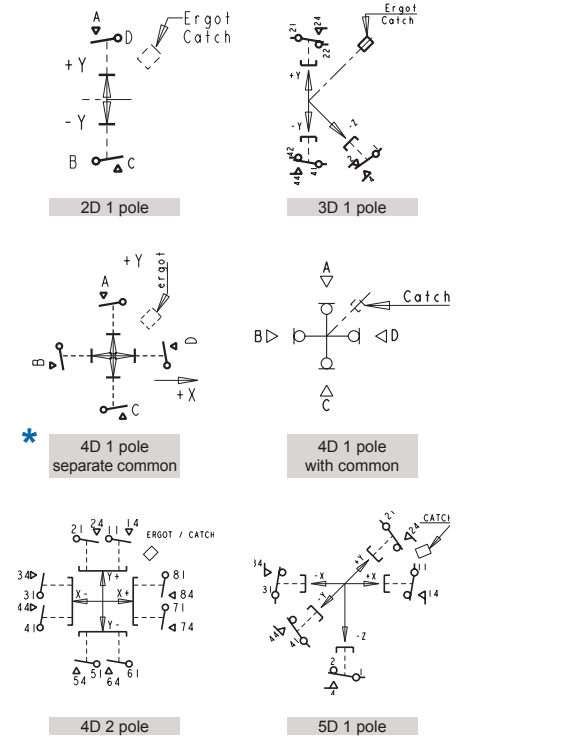
Low level - Gold plated

	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

Mechanical characteristics					
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
Electrical characteristics					
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
General characteristics					
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

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Electrical diagram



Dimensions

