

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
			



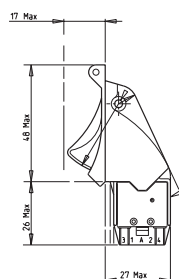
TRIGGER

		1 position						2 positions						
		non waterproof			waterproof			non waterproof			waterproof			
Color		black	red	grey	black	red	grey	black	red	grey	black	red	grey	
Electrical configuration		2 x NO/NC	2 x NO/NC	2 x NO/NC	1 x NO/NC	2 x NO/NC	2 x NO/NC	2 x NO/NC	2 x NO/NC	4x NO/NC	2 x NO/NC	2 x NO/NC	2 x NO/NC	
MOM		83574008	83574004	83574009	83574507	83574504	83574502	83574007	83574001	◆	83574010	83574514	83574555 83574505	83574501
MOM + FLAP GUARD		◆	83574006	◆	◆	83574503	◆	83574011	83574013	83574512	◆	◆	83574509 83574511 83574559	◆
MOM + LOCKING HOLE		◆	◆	◆	◆	◆	◆	83574012	◆	◆	◆	◆	◆	◆
MOM + FLAP+ LOCKING HOLE		◆	◆	◆	◆	◆	◆	◆	83574014	◆	◆	◆	◆	◆
Mechanical characteristics														
Operating force first position		12 N	30 N	12 N	16 N	20 N	16 N	12 N	12 N	12 N	12 N	20 N	20 N	20 N
Release force first position		2 N	2 N	2 N	4 N	4 N	4 N	2 N	2 N	2 N	2 N	4 N	4 N	4 N
Operating force second position		-	-	-	-	-	-	40 N	40 N	30 N	30 N	33 N	33 N	33 N
Total travel first position		14°	11°	14°	9°	14°	12°	12°	12°	12°	12°	12°	12°	12°
Total travel second position		-	-	-	-	-	-	22°	22°	22°	22°	22°	22°	22°
Mechanical life		100 000 cycles	100 000 cycles	100 000 cycles	100 000 cycles	100 000 cycles	100 000 cycles	100 000 cycles	100 000 cycles	100 000 cycles	100 000 cycles	100 000 cycles	100 000 cycles	100 000 cycles
Electrical characteristics														
Voltage		14 VDC to 30 VDC	14 VDC to 30 VDC	14 VDC to 30 VDC	14 VDC to 30 VDC	14 VDC to 30 VDC	14 VDC to 30 VDC	14 VDC to 30 VDC	14 VDC to 30 VDC	14 VDC to 30 VDC	14 VDC to 30 VDC	5 VDC to 32 VDC	14 VDC to 30 VDC	14 VDC to 30 VDC
Current (resistor)		6 A	6 A	6 A	6 A	6 A	6 A	6 A	6 A	2 A	6 A	20 mA	6 A	6 A
Current max @ 30VCC (self)		3 A	3 A	3 A	3 A	3 A	3 A	3 A	3 A	-	3 A	-	3 A	3 A
Electrical endurance		50 000 cycles	100 000 cycles	50 000 cycles	50 000 cycles	50 000 cycles	50 000 cycles	50 000 cycles	50 000 cycles	100 000 cycles	50 000 cycles	50 000 cycles	50 000 cycles	50 000 cycles
General characteristics														
Case		black polyamid 6.6	black polyamid 6.6	black polyamid 6.6	Thermoplastic inox	Thermoplastic inox	Thermoplastic inox	black polyamid 6.6	black polyamid 6.6	black polyamid 6.6	black polyamid 6.6	Thermoplastic inox	Thermoplastic inox	Thermoplastic inox
Button		Acetate resin	Acetate resin	Acetate resin	Acetate resin	Acetate resin	Acetate resin	Acetate resin	Acetate resin	Acetate resin	Acetate resin	Acetate resin	Acetate resin	Acetate resin
Terminal		solder lugs, copper nickel	solder lugs, copper nickel	solder lugs, copper nickel	solder lugs, copper nickel	solder lugs, copper nickel	solder lugs, copper nickel	solder lugs, copper nickel	solder lugs, copper nickel	solder pin	solder lugs, copper nickel	solder lugs, copper nickel	solder lugs, copper nickel	solder lugs, copper nickel
Contact		silver	silver	silver	silver	silver	silver	silver	silver		silver	silver	silver	silver
Operating temperature		-55°C → +85°C	-15°C → +60°C	-55°C → +85°C	-35°C → +75°C	-35°C → +75°C	-35°C → +75°C	-55°C → +85°C	-55°C → +85°C	-15°C → +60°C	-55°C → +85°C	-35°C → +75°C	-35°C → +75°C	-35°C → +75°C
Storage temperature		-55°C → +85°C	-55°C → +85°C	-55°C → +85°C	-55°C → +85°C	-55°C → +85°C	-55°C → +85°C	-55°C → +85°C	-55°C → +85°C	-55°C → +85°C	-55°C → +85°C	-55°C → +85°C	-55°C → +85°C	-55°C → +85°C
Weight		40g	22g	22g	25g	27g	25g	22g	22g	38g	22g	25g	27g	25g

Low level - Gold plated

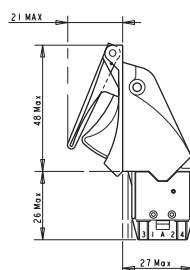
Dimensions

MOM



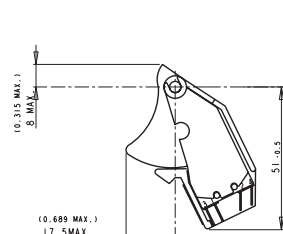
1 x NO/NC

MOM + FLAP GUARD



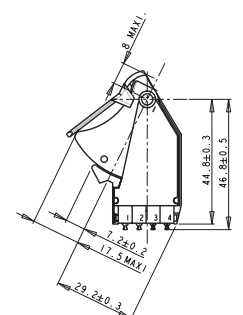
2 x NO/NC

MOM + LOCKING HOLE

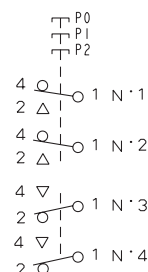
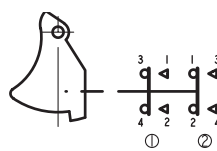
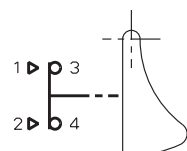


4 x NO/NC

MOM + FLAP+ LOCKING HOLE



Electrical diagram



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