

MANUALLY OPERATED SWITCHES SELECTION GUIDE

		PUSHBUTTONS								TOGGLES			MULTIWAY BUTTONS	ROCKERS	TRIGGERS	THUMBWHEEL / SELECTOR SWITCHES	
		Sub-sub	Subminiature			Miniature				Subminiature		Miniature					
SNAP-ACTION SWITCHES¹																	
Approx. body size (mm)		Ø 8x15	Ø12x20-Ø 14x28	18x14x13	min. 22x19x10	28x19x12	34x30x14	min. 40x23x15	min. 40x30x15	min. 14x14x8	min. 19x18x10	min. 46x38x28	Ø 16x18 - Ø 24x18	Depending on type	min 60x32x16	Depending on type	
SERIES		832295	83450/451 83453	834601	83540/542 83543/547	83161L 83160L	83556	83505/507 83502/553	83529/535 83532/533	265264 265266	83544 83546	83515 83516 83517	83452	83454 834505/4507	83574	84210/211 84212/214	
MOMENTARY ACTION		✓	✓	✓	✓	✓	✓	✓	✓	3 positions - center off		3 positions - auto return to center (83515)	2 → 5 directions - auto return to center	Single or double rocker	1 or 2 positions Optional flap guard		
MAINTAINED ACTION								2 buttons-tandem action (83502)**	2 buttons-tandem action (83532/533)**	2 positions or 3 positions - center off	2 positions	3 positions (83516)		Various momentary and /or maintained configurations		10 or 16 positions	
MOMENTARY + MAINTAINED ACTION					Push Mom/ Push On/ Push Off (83540)			Push Mom/ Push On/ Push Off (83553)**		✓		✓ (83517)		3.4 or 5 positions			
Nb of poles		1 pole	1 ; 2 poles	3 ; 4 poles	1 → 4 poles	1 pole	1 ; 2 poles (staggered contacts)	1 → 3 poles	1 → 3 poles	1 ; 2 poles	1 → 4 poles	2 x (1 ; 2 poles)	1 ; 2 poles	2 x (1 ; 2 poles)	1 ; 2 poles	According to nb of modules	
Circuit diagram Contact configuration (for 1 pole changeover/SPDT)																	According to codes : Decimal, BCD, Changeover ±, 0/5, Hexadecimal, etc...
SPST-NC / SPST-NO versions			✓		✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓	
Electrical disconnection		µ	µ	µ	µ	µ / Full	µ / Full	µ	µ	µ	µ	µ	µ	µ	µ	µ	µ
Max. ratings																	
@ 250 V ~		5 A			6 A	20 A	16 A	16 A	16 A		6 A	16 A					0.1 A (48 V ~)
@ 24 V =		5 A	7,5 A	5 A	6 A	16 A	16 A	16 A	16 A	4 A	6 A	16 A	2 A	5 A	6 A		0.1 A
@ 250 V =		0.2 A			0,5 A	5 A	5 A	5 A	5 A		0.5 A	5 A					0.1 A (48 V =)
Dual-current version		1 mA → 5 A	1 mA → 5 A	1 mA → 1 A	1 mA → 5 A	1 mA → 5 A	1 mA → 5 A	10 mA → 5 A	10 mA → 5 A	1 mA → 4 A	1 mA → 5 A	10 mA → 5 A	1 mA → 2 A	1 mA → 5 A	1 mA → 5 A	1 mA → 5 A	1 mA → 0.1 A
Insulation voltage Ui		250 V	30 V	30 V	250 V	400 V	250 V	250 V	250 V	30 V	48 V ; 250 V	250 V	30 V	30 V	30 V	30 V	48 V
Protection against electric shock (for 250 V equipment)		Class I			Class I	Class II	Class I	Class I	Class I		Class I	Class I					
ENVR. Degree of protection (front side)		IP40	IP40 IP52	IP40	IP40 IP50 with cap	IP40 IP50 with cap	IP40	IP40 IP50 with cap	IP40	IP40 IP52	IP40	IP40	IP40 IP52	IP40	IP40 IP52	IP40	IP40
Operating temperature		-55 °C +100 °C	-55 °C +85 °C	-40 °C +70 °C	-20 °C +125 °C	-60 °C +125 °C	-40 °C +125 °C	-40 °C +125 °C	-40 °C +85 °C	-40 °C +85 °C	-20 °C +125 °C	-40 °C +125 °C	-55 °C +85 °C	-55 °C +85 °C	-55 °C +85 °C	-25 °C +70 °C	
Max Operating Force		2 N	8 N ; 16 N	7 N ; 9 N	1.5 N ; 5 N	1 N ; 5 N	1 N ; 10 N	4 N ; 12 N	4 N ; 12 N	4 N ; 8 N	3 N ; 5 N	8 N ; 10 N	3 N ; 6 N	4 N ; 25 N	12 N ; 40 N	5 N ; 7 N	
Total Travel		1.8 mm	2 mm	1.3 mm	3,5 → 5 mm	6 mm	6 mm	2.2 mm	2.2 mm	10° ; 26°	30°	24° / direction	12° / direction	15° ; 23° / direction	9° ; 22°	2 mm ; 5 mm	
Mechanical life (cycles)		2 M	0.3 M	0.6 M	0.5 M	10 M	0.1 M	1 M	1 M	0.15 M	0.1 M	1 M	0.5 M	0.4 M	0.1 M	1 M	
Operating device																	
Material		Metal	Plastic	Plastic	Plastic	Plastic	Plastic	Plastic	Plastic	Metal ; Plastic	Metal	Plastic	Plastic	Plastic	Plastic	Plastic	
Color		Black	Black ; Red Grey ; White Blue	Black ; Red	Black	Black	Black	Black ; Red	Black ; Red	Black ; Grey Chrome	Chrome	Black	Black ; Grey ; Blue Extended range of shapes	Black	Black ; Red ; Grey	Wheel: Black ; Red Housing: Black ; Grey	
Mounting bracket		Metal	Plastic	Metal	Metal	Plastic	Metal	Metal	Metal	Metal	Metal	Metal	Plastic	Plastic	Plastic	Plastic	
Fixing means																	
Threaded barrel		M8 x 0.75		M12 x 1	M6/M12 x 0.75	M12 x 0.75	M10 x 0.75	M12 x 0.75	M12 x 0.75	Ø 6.3 ; Ø 12	M6/M12 x 0.75						
Tapped holes												2 x M3					
Others			Glue or screw**										Glue or screws**	Screws**	Pin or screw**	Snap-in	
Panel cut-out (mm)		Ø 8.2	Ø 12 ; Ø 14	Ø 12.5	Ø 6.2;Ø 12.2	Ø 12.5	Ø 10.5	Ø 12.5	Ø 12.5	Ø 6.5 ; Ø 12.5	Ø 6.2 ; Ø 12.2	14 x 10.5 mm	Ø 16 ; Ø 24	Depending on type	17 x 43 mm	Rectangular	
Connections																	
Fast-on		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
Solder					✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
Printed board					✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
Screw					✓	✓	✓	✓	✓			✓					
Approvals																	
ENEC																	
UL																	
CCC																	