

MANUALLY OPERATED SWITCHES SELECTION GUIDE

06/2021

SNAP-ACTION SWITCHES*		PUSHBUTTONS							TOGGLES			MULTIWAY BUTTONS	ROCKERS	TRIGGERS	THUMBWHEEL / SELECTOR SWITCHES		
		Sub-sub	Subminiature			Miniature				Subminiature						Miniature	
																	
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	83540/541 83542/543 83547	83161L 83160L	83556	83507/553 83502	83533 83535	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-way - Auto return to center	Single or double rocker	1 or 2 steps 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 (83540/541)			Push Mom/ Push On/ Push Off (83553**)		✓		✓ (83517)		3.4 or 5 positions			
ELECTRICAL	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 → 3 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, BCD complement Hexadecimal, Changeover ±
	NC/NO versions			✓		✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	
	Electrical disconnection		μ	μ	μ	μ	μ / Full	μ / Full	μ	μ	μ	μ	μ	μ	μ	μ	μ
	Max. ratings		@ 250 V ~ 5 A @ 24 V ~ 0.2 A	7,5 A	5 A	6 A 6 A 0,5 A	16 A 16 A 5 A	16 A 16 A 5 A	16 A 16 A 5 A	16 A 16 A 5 A	4 A	6 A 6 A 0.5 A	16 A 16 A 5 A	2 A	5 A	6 A	0.1 A (48 V ~) 0.1 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	0.1 mA → 0.1 A
	Insulation voltage		Ui	250 V	30 V	30 V	250 V	400 V	250 V	250 V	30 V	48 V ; 250 V	250 V	30 V	30 V	30 V	48 V
ENVIR.	Protection against electric shock (for 250 V equipment)		Class I			Class I	Class II  (front side)	Class I	Class I	Class I		Class I	Class I				
	Degree of protection (front side)		IP40	IP40 IP52	IP40	IP40	IP40	IP40	IP40	IP40	IP40 IP52	IP40	IP40	IP40 IP55	IP40	IP40 IP52	IP40
	Operating temperature		-55 °C +100 °C	-55 °C +85 °C	-40 °C +70 °C	-40 °C +125 °C	-60 °C +125 °C	-40 °C +125 °C	-40 °C +125 °C	-40 °C +85 °C	-40 °C +85 °C	-40 °C +125 °C	-40 °C +85 °C	-55 °C +85 °C	-55 °C +85 °C	-55 °C +85 °C	-25 °C +70 °C
MECHANICAL	Max Operating Force		1.7 N	8 N ; 16 N	7 N ; 9 N	1.6 N ; 4.8 N	1 N ; 5 N	1 N ; 10 N	4 N → 25 N	4 N → 20 N	4 N ; 8 N	3 N → 7 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 ; 4 mm	2.2 mm ; 4 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	1 M	10 M	0.1 M	1 M	1 M	0.15 M	0.1 M	0.1 M	0.5 M	0.4 M	0.1 M	1 M
	Operating device		Material	Metal	Plastic	Plastic	Plastic	Plastic	Plastic	Plastic	Metal ; Plastic	Metal	Plastic	Plastic	Plastic	Plastic	Plastic
	Color		Black	Black ; Red Grey ; White Blue	Black ; Red	Black ; Red	Black	Black	Black ; Red	Black ; Red	Black ; Grey Chrome	Nickel	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	M12 x 0.75	M12 x 0.75				
			Tapped holes							2 x M3	2 x M3	2 x M3	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	Ø 16 ; Ø 24	Depending on type	17 x 43	Depending on type	
Connections		Fast-on Solder Printed board Screw	✓	✓	✓	✓ ✓ ✓ ✓ ✓	✓ ✓ ✓ ✓ ✓	✓ ✓ ✓ ✓ ✓	✓ ✓ ✓ ✓ ✓	✓ ✓	✓ ✓ ✓ ✓ ✓	✓ ✓ ✓ ✓ ✓	✓	✓	✓ ✓ ✓ ✓ ✓	✓ ✓ ✓ ✓ ✓	✓ ✓ ✓ ✓ ✓ with connector (acc.)
Approvals		ENEC/CE UL CCC EAC	CE	CE	CE	 CE	CE	CE	CE	CE	CE	CE	CE	CE	CE	CE	
																	
			**														
																	



*Models starting by 83... ** Consult us
The features presented in this selection guide represent the extent of performance of each Manually operated switch Series. Not all combinations of characteristics are feasible at an individual product. Please refer to relevant product sheet or consult our customer service. For more information see also the "Basic technical concepts".
Note: data contained in product sheets dated 2016 and before may differ from the features shown in this selection guide. Update is in progress. Please contact us for confirmation.

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