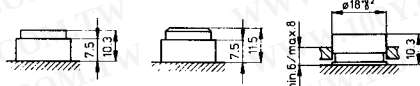


Technical information

勝特力材料 886-3-5753170
 勝特力电子(上海) 86-21-34970699
 勝特力电子(深圳) 86-755-83298787
[Http://www.100y.com.tw](http://www.100y.com.tw)

	th 4	th 5	th 25		
Switching mechanism	Heart-shaped switching labyrinth.	Heart-shaped switching labyrinth with bi-functional mechanism ☺ for determining the momentary or the latching function.			
Actuating force	Approx. 2.5N (with one contact block).				
Mounting	Central with metal fixation nut.				
Protective systems	IP40, IP65		IP40, IP65, IP67		
Bezel materials	Thermoplast or anodized aluminium alloy.				
Lens materials	Thermoplast (polycarbonate in different colours) engravable.				
Illumination	Telephone lamps T5.5 max. 60V / 1.2W (incandescent bulbs, LEDs, Multi-LEDs).	Midget-grooved-bulbs T1¾ max. 60V / 1.2W (incandescent bulbs, LEDs, Multi-LEDs). Lamp contact "a" = cathode (-)	Lamp contact "b" = cathode (-)		
	Please respect the safety regulations when using the indicator light.				
Ambient temperature	-30° to +80°C Heat congestion should be avoided.		-30° to +55°C		
Life expectancy mechanical	1'000'000 operating cycles.				
Contact block 5A	Supplied assembled onto the switch. Additional elements can be added by the user.		Slide-on assembly by the user.		
Contact block casing	Duroplast, self-extinguishing (UL 94 V0).				
Terminal material	Silver contact silver alloy 2µm silver plated. Gold contact silver alloy 2µm silver plated and 0.4µm gold plated.				
Contact resistance	Gold plated <30 mOhm, silver plated <50 mOhm.				
Number of contacts	1NO + 1NC per contact block, max. 3 contact blocks per switch.		By choice 1NO or 1NC or 1NO + 1NC or 2NO + 2NC per contact block. Max. 2 double contact blocks per switch.		
Terminals	Patented, bendable double solder terminals for braid wire 2x1mm² or strands 4x0.75mm².		Solder terminals for braid wire 1x1mm² or strands 2x0.75mm². Faston terminals 2.8x0.5mm for faston plugs.		
Switching mechanism	Self cleaning snap-action contacts with minimum bounce.				
DC load (resistive load)	5A/12V	4A/24V 0.5A/125V	3A/36V 0.3A/250V	2A/48V	1.5A/60V
DC load (inductive load L/R = 15ms)	3A/12V	2A/24V 0.3A/125V	1.7A/36V 0.2A/250V	1.5A/48V	1.2A/60V
Switching capacity	5A 250V AC (cos φ 0,7) Recommended miniature circuit breaker: characteristic type C 6 A.				
Life expectancy electrical	70'000 operating cycles 5A 250V AC (cos φ 0,7)				
Vibration	Amplitude 1.5mm pp at 55Hz				
Contact block 6A				see th25 catalogue page 21	
Contact block 16A					

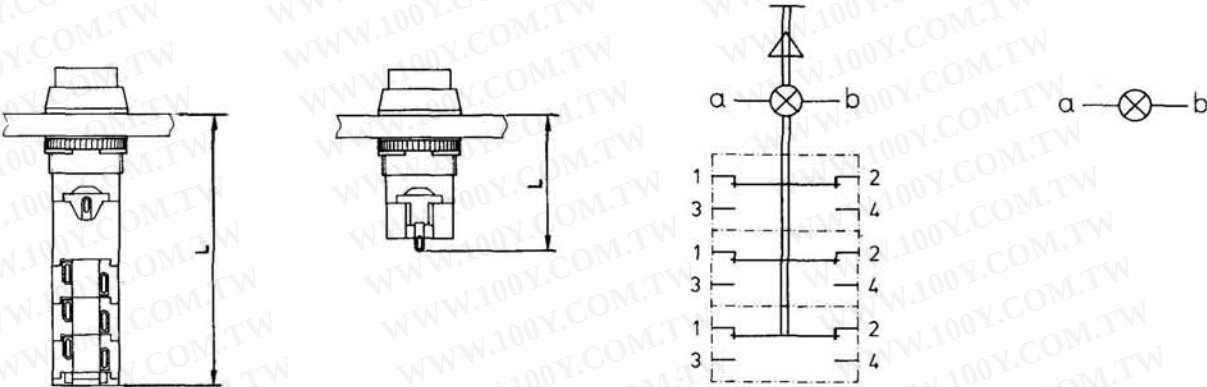
Panel cut-out 16.2 mm / 22.5 mm

	Ø 18 IP40 exposed plastic bezel	Ø 18 IP40 concealed plastic bezel	Ø 18 IP67 exposed plastic bezel	Ø 25 IP65 plastic bezel	Ø 25 IP40 / IP65 aluminium bezel ★	Ø 25 IP65 aluminium bezel with sealing ring ★		
Contact blocks must be ordered separately (see pages 20 + 21)		 	  					
Faston terminal Momentary Latching ☺ Indicator	505 008 515 008 555 008	505 002 515 002 555 002	505 015 515 015 555 015	505 020 515 020 555 020	505 018 515 018 555 018	505 033 515 033 555 033		
Solder terminal Momentary Latching ☺ Indicator	505 108 515 108 555 108	505 102 515 102 555 102	505 115 515 115 555 115	505 120 515 120 555 120	505 118 515 118 555 118	505 133 515 133 555 133		
Weight in g	6	6	7	13	14	14		
Length in mm Switches Indicators	43 41	43 41	43 41	40 38	42 40	42 40		
Front panel thickness max. min.	6.5 1.0	6.5 1.0	6.5 1.0	5 1.0	5 1.0	5 1.0		
Bezel and lens heights (switch in „off“ position)								
Lenses	Ø 15 flat concave		Ø 18	Ø 15	Ø 21	Ø 18 IP40 IP65		
Weight in g	0.7	0.8	0.9	0.8	0.8	0.9	1.1	
opaque	white	464 021	464 022	464 015	564 011	564 024	464 015	464 001
	yellow	464 121	464 122	464 115	564 111	564 124	464 115	464 101
	green	464 221	464 222	464 215	564 211	564 224	464 215	464 201
	blue	464 321	464 322	464 315	564 311	564 324	464 315	464 301
	red	464 421	464 422	464 415	564 411	564 424	464 415	464 401
	black	464 521	464 522	464 515	564 511	564 524	464 515	464 501
	orange	464 621	464 622	464 615	564 611	564 624	464 615	464 601
transparent	white	465 021	465 022	465 015	565 011	565 024	465 015	465 001
	yellow	465 121	465 122	465 115	565 111	565 124	465 115	465 101
	green	465 221	465 222	465 215	565 211	565 224	465 215	465 201
	blue	465 321	465 322	465 315	565 311	565 324	465 315	465 301
	red	465 421	465 422	465 415	565 411	565 424	465 415	465 401
	orange	465 621	465 622	465 615	565 611	565 624	465 615	465 601
★ Part number suffix for black anodized aluminium alloy 500, for transparent lens lower part 010 (except IP67 and Ø 21 IP65)								

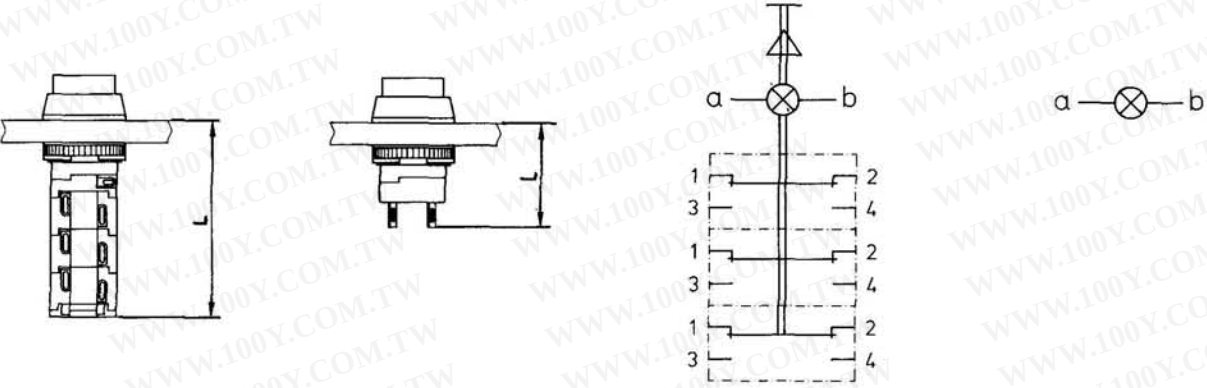
Tightening torques

Hexagonal metal nut	M12x0.75	max. 100Ncm
Metal fixing nut	M16x1	max. 150Ncm
Metal fixing nut	M22x1	max. 300Ncm
Contact block screws for th4, th5		max. 13Ncm
Pin screws	M2.5 for anti-rotation plates on th25 switch with plastic ring Ø25 IP65	max. 30Ncm
Pin screws	M3 for anti-rotation plates on th4, th25 key switches and rotary switches	max. 20Ncm

th4



th5



th25

