

	th4	th25
Mounting	Central with metal fixing nut.	
Protective systems	IP40, IP65	
Bezel materials	Thermoplast or anodized aluminium alloy.	
Rotary knob material	Thermoplast	
Illumination	Telephone lamps T5.5 max. 60V / 1.2W (incandescent bulbs, LEDs, Multi-LEDs). 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	50'000 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 2x1mm ² or strands 4x0.75mm ² .	Solder terminals for braid wire 1x1mm ² or strands 2x0.75mm ² 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 3A/36V 2A/48V 1.5A/60V 0.5A/125V 0.3A/250V	
DC load (inductive load L/R = 15ms)	3A/12V 2A/24V 1.7A/36V 1.5A/48V 1.2A/60V 0.3A/125V 0.2A/250V	
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 Contact block 16A		For technical details see page 22.

Tightening torques

Metal fixation nut	M16x1	max. 150Ncm
Metal fixation nut	M22x1	max. 300Ncm
Contact block screws for th4, th5		max. 13Ncm
Pin screws	M3 for anti-rotation plates on th4, th25 key switches and rotary switches	max. 20Ncm

Panel cut-outs and distances from switch centre to switch centre

Type 1	Type 2	Type 3	Type 4

The minimal distances of the x and y coordinates are shown by each respective product. When assembling th25 double contact blocks or 6A and 16A contact blocks, the minimum distances must be adjusted according to the contact block dimensions shown on pages 21 and 22.