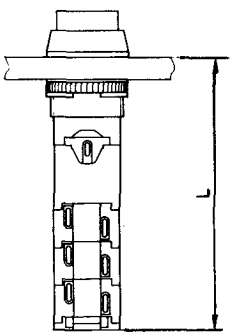
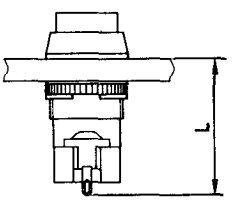
| | th4 | th5 | th25 |
|---|---|---|---|
| **Switching mechanism** | Heart-shaped switching labyrinth. | Heart-shaped switching labyrinth with bi-functional mechanism ☺ for determing the momentary or the latching function. | |
| **Actuating force** | Approx. 2.5N (with one contact block). | | |
| **Mounting** | 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).<br>Lamp contact "a" = cathode (-) | Lamp contact "b" = cathode (-) |
| | Please respect the safety regulations when using the indicator light. | | |
| **Ambient temperature** | -30° to +80°C<br>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.<br>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 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)<br>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**<br>**Contact block 16A** | | | see th25 catalogue page 21 |

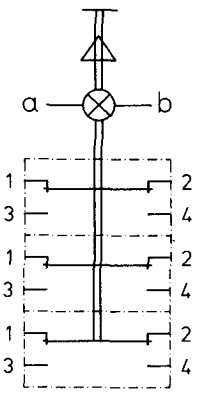
## Tightening torques

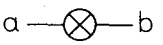
| | | |
|---|---|---|
| Hexagonal metal nut | M12x0.75 | max. 100Ncm |
| Metal fixing nut | M16x1 | max. 150Ncm |
| Metal fixing nut | M22x1 | max. 300Ncm |
| Contact block screws for th4, th5 | | max. 13Ncm |
| Pin screws | M2.5 for anti-rotation plates on th25 switch with plastic ring Ø25 IP65 | max.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

### th4

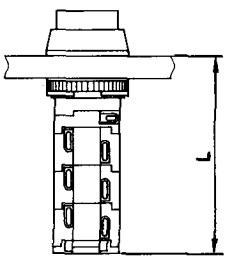


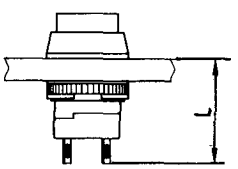



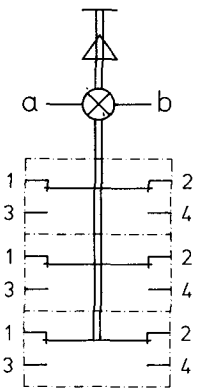



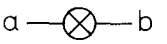




### th5




### th25

