

## Specifications

Mechanism	Momentary or latching
Actuating force	Approximately 2.5N – 1 contact block
Mounting	Central fixing with metal lock nut
Protection	IP40, IP65
Bezel material	Thermoplastic or anodized aluminium alloy
Lens material	Polycarbonate – engravable
Illumination	Non-illuminated
Temperature range °C	-30°C to +80°C
Mechanical life	10 <sup>6</sup> cycles
Contact block (blocks)	Supplied fitted
Contact block housing	Self-extinguishing duroplastic (UL 94 V0)
Terminal material	Silver alloy with 0.2 µm silver plating, plus 0.4 µm gold plating
Contact resistance	< 30mOhm
Number of contact blocks	1 NO + 1 NC per contact block, up to a maximum of 3 contact blocks per switch
Terminals	Patented flexible solder - suitable for wire diameter 2 × 1.00 mm <sup>2</sup> (braided), 4 × 0.75 mm (stranded)
Vibration resistance	1.5mm pp amplitude at 55 Hz

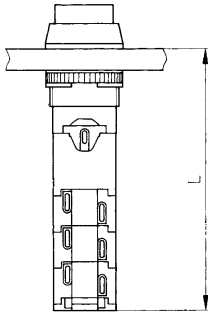
## Recommended maximum electrical ratings

Voltage (max)	Resistive load (A)	Inductive load (A)	Approval
250 VAC	5.0 (0.7 pf)		UL, CSA, VDE - max. admissible circuit breaker C6A
12 VDC	5.0	3.0	General rating
24 VDC	4.0	2.0	General rating
36 VDC	3.0	1.7	General rating
48 VDC	2.0	1.5	General rating
60 VDC	1.5	1.2	General rating
125 VDC	0.5	0.3	General rating
250 VDC	0.3	0.2	General rating
Electrical life	70,000 cycles at 5A, 250 VAC, 0.7 pf		



# TP4

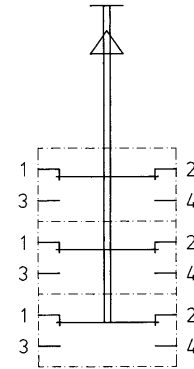
## Dimensions



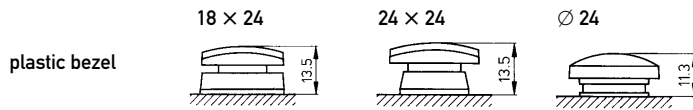
### Length in mm

Panel cut-out	16.2 ±0.1	22.5 ±0.1	
N° of contact blocks	1	44.5	43.5
	2	53.0	52.0
	3	61.5	60.5

## Circuit diagrams (3 contact blocks)



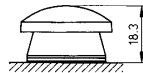
## Bezel and lens heights in mm (switch off position)



plastic bezel

panel cut-out 16.2 ± 0.1 mm

aluminium bezel



panel cut-out 22.5 mm

Front panel thickness 1.0 mm to 10 mm (Aluminium bezel 1.0 mm to 6.5 mm)



Type coding key for standard products

Basic type		TP4				Example: TP4		1	MAJ0	A0	N	X	X
Panel cut-out	1	Ø 16.2 mm	Switch body 18 × 24; 24 × 24; Ø 24										
	2	Ø 22.5 mm	Switch body Ø 30 only										
Switch body	MAJ0	Function	Actuator style	Environmental protection	Contact blocks	Part No.							
Panel cut-out 16.2 mm (A)	MAJ1	Momentary	18 × 24 mm	IP40	None	TH400004							
	MAJ2	Momentary	18 × 24 mm	IP40	1NO + 1NC	TH400104							
	MAJ3	Momentary	18 × 24 mm	IP40	2 NO + 2 NC	TH400204							
	LAJ0	Latching	18 × 24 mm	IP40	3 NO + 3 NC	TH400304							
	LAJ1	Latching	18 × 24 mm	IP40	None	TH410004							
	LAJ2	Latching	18 × 24 mm	IP40	1NO + 1NC	TH410104							
	LAJ3	Latching	18 × 24 mm	IP40	2 NO + 2 NC	TH410204							
						3 NO + 3 NC	TH410304						
Panel cut-out 16.2 mm (B)	MCJ0	Momentary	24 × 24 mm	IP40	None	TH402004							
	MCJ1	Momentary	24 × 24 mm	IP40	1NO + 1NC	TH402104							
	MCJ2	Momentary	24 × 24 mm	IP40	2 NO + 2 NC	TH402204							
	MCJ3	Momentary	24 × 24 mm	IP40	3 NO + 3 NC	TH402304							
	LCJ0	Latching	24 × 24 mm	IP40	None	TH412004							
	LCJ1	Latching	24 × 24 mm	IP40	1NO + 1NC	TH412104							
	LCJ2	Latching	24 × 24 mm	IP40	2 NO + 2 NC	TH412204							
	LCJ3	Latching	24 × 24 mm	IP40	3 NO + 3 NC	TH412304							
Panel cut-out 16.2 mm (C)	MEJ0	Momentary	Ø 24	IP40	None	TH404004							
	MEJ1	Momentary	Ø 24	IP40	1NO + 1NC	TH404104							
	MEJ2	Momentary	Ø 24	IP40	2 NO + 2 NC	TH404204							
	MEJ3	Momentary	Ø 24	IP40	3 NO + 3 NC	TH404304							
	LEJ0	Latching	Ø 24	IP40	None	TH414004							
	LEJ1	Latching	Ø 24	IP40	1NO + 1NC	TH414104							
	LEJ2	Latching	Ø 24	IP40	2 NO + 2 NC	TH414204							
	LEJ3	Latching	Ø 24	IP40	3 NO + 3 NC	TH414304							
Panel cut-out 22.5 mm	MHJ0	Momentary	Ø 30	IP65	None	TH404019							
	MHJ1	Momentary	Ø 30	IP65	1NO + 1NC	TH404119							
	MHJ2	Momentary	Ø 30	IP65	2 NO + 2 NC	TH404219							
	MHJ3	Momentary	Ø 30	IP65	3 NO + 3 NC	TH404319							
	LHJ0	Latching	Ø 30	IP65	None	TH414019							
	LHJ1	Latching	Ø 30	IP65	1NO + 1NC	TH414119							
	LHJ2	Latching	Ø 30	IP65	2 NO + 2 NC	TH414219							
	LHJ3	Latching	Ø 30	IP65	3 NO + 3 NC	TH414319							
Panel cut out 16.2 Actuator colour For Switch body (A)	A0	White	18 × 24 mm	Mushroom	THXXXXXX WHT								
	A1	Yellow	18 × 24 mm	Mushroom	THXXXXXX YEL								
	A2	Green	18 × 24 mm	Mushroom	THXXXXXX GRN								
	A3	Blue	18 × 24 mm	Mushroom	THXXXXXX BLU								
	A4	Red	18 × 24 mm	Mushroom	THXXXXXX RED								
	A5	Black	18 × 24 mm	Mushroom	THXXXXXX BLK								
For Switch body style (B)	C0	White	24 × 24 mm	Mushroom	THXXXXXX WHT								
	C1	Yellow	24 × 24 mm	Mushroom	THXXXXXX YEL								
	C2	Green	24 × 24 mm	Mushroom	THXXXXXX GRN								
	C3	Blue	24 × 24 mm	Mushroom	THXXXXXX BLU								
	C4	Red	24 × 24 mm	Mushroom	THXXXXXX RED								
	C5	Black	24 × 24 mm	Mushroom	THXXXXXX BLK								
For Switch body style (C)	E0	White	Ø 24 mm	Mushroom	THXXXXXX WHT								
	E1	Yellow	Ø 24 mm	Mushroom	THXXXXXX YEL								
	E2	Green	Ø 24 mm	Mushroom	THXXXXXX GRN								
	E3	Blue	Ø 24 mm	Mushroom	THXXXXXX BLU								
	E4	Red	Ø 24 mm	Mushroom	THXXXXXX RED								
	E5	Black	Ø 24 mm	Mushroom	THXXXXXX BLK								
Panel cut-out 22.5	H0	White	Ø 30 mm	Mushroom	THXXXXXX WHT								
	H1	Yellow	Ø 30 mm	Mushroom	THXXXXXX YEL								
	H2	Green	Ø 30 mm	Mushroom	THXXXXXX GRN								
	H3	Blue	Ø 30 mm	Mushroom	THXXXXXX BLU								
	H4	Red	Ø 30 mm	Mushroom	THXXXXXX RED								
	H5	Black	Ø 30 mm	Mushroom	THXXXXXX BLK								
Housing Colour	N	Natural											
Illumination	X	Non illuminated											
Illumination colour	X	Non illuminated											

