

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 ⁶ 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 ² (braided), 4 × 0.75 mm (stranded)
Vibration resistance	1.5mm pp amplitude at 55 Hz

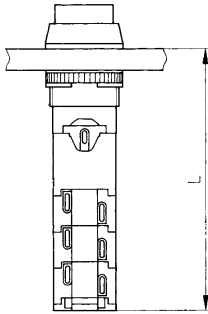
Recommended maximum electrical ratings

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

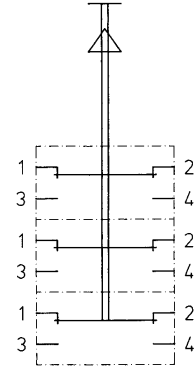
Dimensions



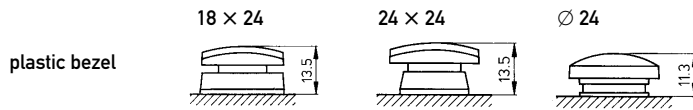
Length in mm

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

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										
		Function	Actuator style	Environmental protection	Contact blocks	Part No.							
Switch body	MAJ0	Momentary	18 × 24 mm	IP40	None	TH400004							
Panel cut-out 16.2 mm (A)	MAJ1	Momentary	18 × 24 mm	IP40	1NO + 1NC	TH400104							
	MAJ2	Momentary	18 × 24 mm	IP40	2 NO + 2 NC	TH400204							
	MAJ3	Momentary	18 × 24 mm	IP40	3 NO + 3 NC	TH400304							
	LAJ0	Latching	18 × 24 mm	IP40	None	TH410004							
	LAJ1	Latching	18 × 24 mm	IP40	1NO + 1NC	TH410104							
	LAJ2	Latching	18 × 24 mm	IP40	2 NO + 2 NC	TH410204							
	LAJ3	Latching	18 × 24 mm	IP40	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		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								
For Switch body (A)	A5	Black	18 × 24 mm	Mushroom	THXXXXXX BLK								
	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								
For Switch body style (B)	C4	Red	24 × 24 mm	Mushroom	THXXXXXX RED								
	C5	Black	24 × 24 mm	Mushroom	THXXXXXX BLK								
	E0	White	Ø 24 mm	Mushroom	THXXXXXX WHT								
	E1	Yellow	Ø 24 mm	Mushroom	THXXXXXX YEL								
	E2	Green	Ø 24 mm	Mushroom	THXXXXXX GRN								
For Switch body style (C)	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											

