143 030

Type		Part No.	Part No.	Part No.
	Holder for 3 contact elements			
				
	for switch 55 – 70 mm			270-1300-00
	Holder for 2 contact elements			
				
	for switch 45 mm		270-2000-00	
	for switch 35 mm			270-3000-00
	Lamp contact			
				
	combined solder/plug-in terminal		270-0000-00	
	pcb-terminal			270-0000-0P
	Contact element, combined solder/plug-in terminal			
				 
	1 NC + 1 NO			
	[1] 2 µm Au, green	201-0400-00		
	[1] 2 µm Au, blue		201-0500-00	
	[1] 2 µm Au, grey			201-0600-00
	Contact element, pcb			
				
	1 NC + 1 NO			
	[1] 2 µm Au, grey			221-0800-0P

Note: [1] For **uprated switching frequency,** order the appropriate contact element by replacing the first dash in the Part No. with a +. Example: 201+0400-00

Terminal block

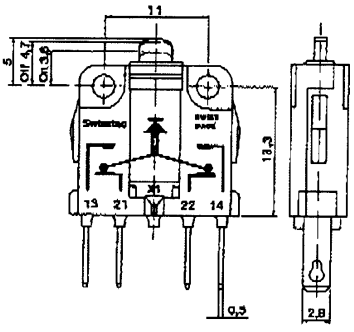
The terminal block contains up to five mutually independent contact elements as switching elements. The switch's load capacity is determined solely by the contact elements fitted. There are five different kinds of contact elements:

1. Standard contact element
2. Contact element for uprated switching frequency
3. Emergency Stop element
4. Diode or twin-diode element
5. Dummy element

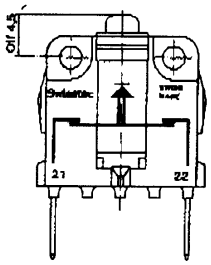
The data immediately below apply to all elements. Data specific to the different elements are shown overleaf.

Materials	Holder for three contact elements	Stainless chrome steel
	Holder for two contact elements	Thermoplastic, fire-resistant (PA6)
	Lamp contact	CuBe, 2 µm Optalloy 2,8 x 0,5 mm
Electrical	Dielectric strength	2000 V AC, 50 Hz, 1 min to IEC 512-2-11
	Insulation resistance	> 10^{12} ohm
	Contact resistance	< = 50 milliohm typical, new static
	Contact loading max.	AC: 250 V/6 A (VDE 5 A), cos φ = 0,7 – 0,8
		DC: 250 V/0,5 A
		DC: 110 V/2 A
		DC: 75 V/5 A
Caution!	For thermal reasons, 4 and 5-pole terminal block is limited to I_{max} = 4 A	
	With flat connectors, VDE 0630 and SEV standards specify use of insulating sleeve No. 280-0010-00.	
Thermal	Operating temperature	– 25°C to + 55°C
	Storage temperature	– 40°C to + 85°C
	Continuous current $I_{th\ max}$	6 A, up to 3-pole terminal block
		4 A, with 4 and 5-pole terminal blocks
Mechanical	Useful life	2 million operations
	Contact gap	2 x 0,65 mm, emerg. Stop element > 2 x 1,5 mm
	Contact cleaning path	2 x 0,6 mm
	Bounce time	0,5 ms typical
	Operating force	2 N approx. per contact element
	Weight	3 g approx.

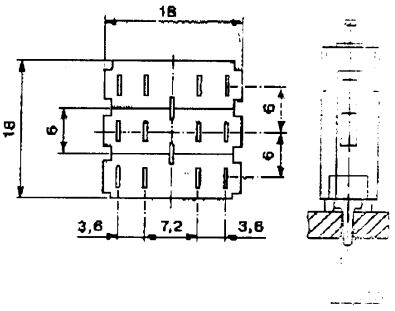
Contact element



Emergency Stop element



PCB connection

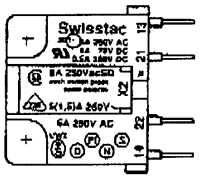


Technical details

Standard contact element

These have duplicate snap breaking contacts. The long cleaning path ensures excellent self-cleaning. The multi-coated contacts are intended for general-purpose use. The top coat is 2 µm of gold. Each contact element consists of a normally closed (NC) contact and a normally open (NO) contact. They are designed for normal switching frequency to VDE 0630.

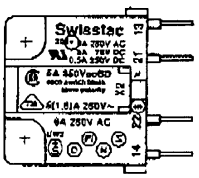
Materials	Housing	Thermoplastic (PETP) fire-resistant to UL 94 V0
	Contact	AgNi, 2 µm gold-plated
	Contact holder	Brass or CuBe
	Terminal	Gold-plated brass 2,8 x 0,5 mm solder and plug terminal combined or PCB connector max cross-section 1 mm²
Useful life	Full load	> 10^4 load cycles
	Reduced load	> 2 x 10^6 load cycles
Identification		XXX⊖



Contact element for uprated switching frequency

These have two snap breaking contacts. The long cleaning path ensures excellent self-cleaning. The multi-coated contacts are intended for general-purpose use. The top coat is 2 µm of gold. Each contact element consists of a normally closed (NC) contact and a normally open (NO) contact. The units are designed for uprated switching frequency to VDE 0630.

Materials	Housing	Duroplast (DAP) fire-resistant to UL 94 V0
	Contact	AgNi, 2 µm gold-plated
	Contact holder	Brass or CuBe
	Terminal	Gold-plated brass 2,8 x 0,5 mm solder and plug terminal combined or PCB connector max cross-section 1 mm²
Useful life	Full load	> 5 x 10^4 load cycles
	Reduced load	> 2 x 10^6 load cycles
Identification		XXX⊕ ⋙ sign nearest to VDE-approval



Emergency Stop element

These have a rigid contact brigde. This has a positive opening action and consists of a normally closed (NC) contact only. The multi-coated contacts are intended for general-purpose use and are finished with 2 µm of gold. The emergency Stop element is designed for uprated switching frequency to VDE 0630.

Materials	Housing	Duroplast (DAP) fire-resistant to UL 94 V0
	Contact	AgNi, 2 µm gold-plated
	Contact holder	Brass or CuBe
	Terminal	Gold-plated brass 2,8 x 0,5 mm solder and plug terminal combined or PCB connector max cross-section 1 mm²
Useful life	Full load	> 5 x 10^4 load cycles
	Reduced load	> 2 x 10^6 load cycles

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Subject to modification