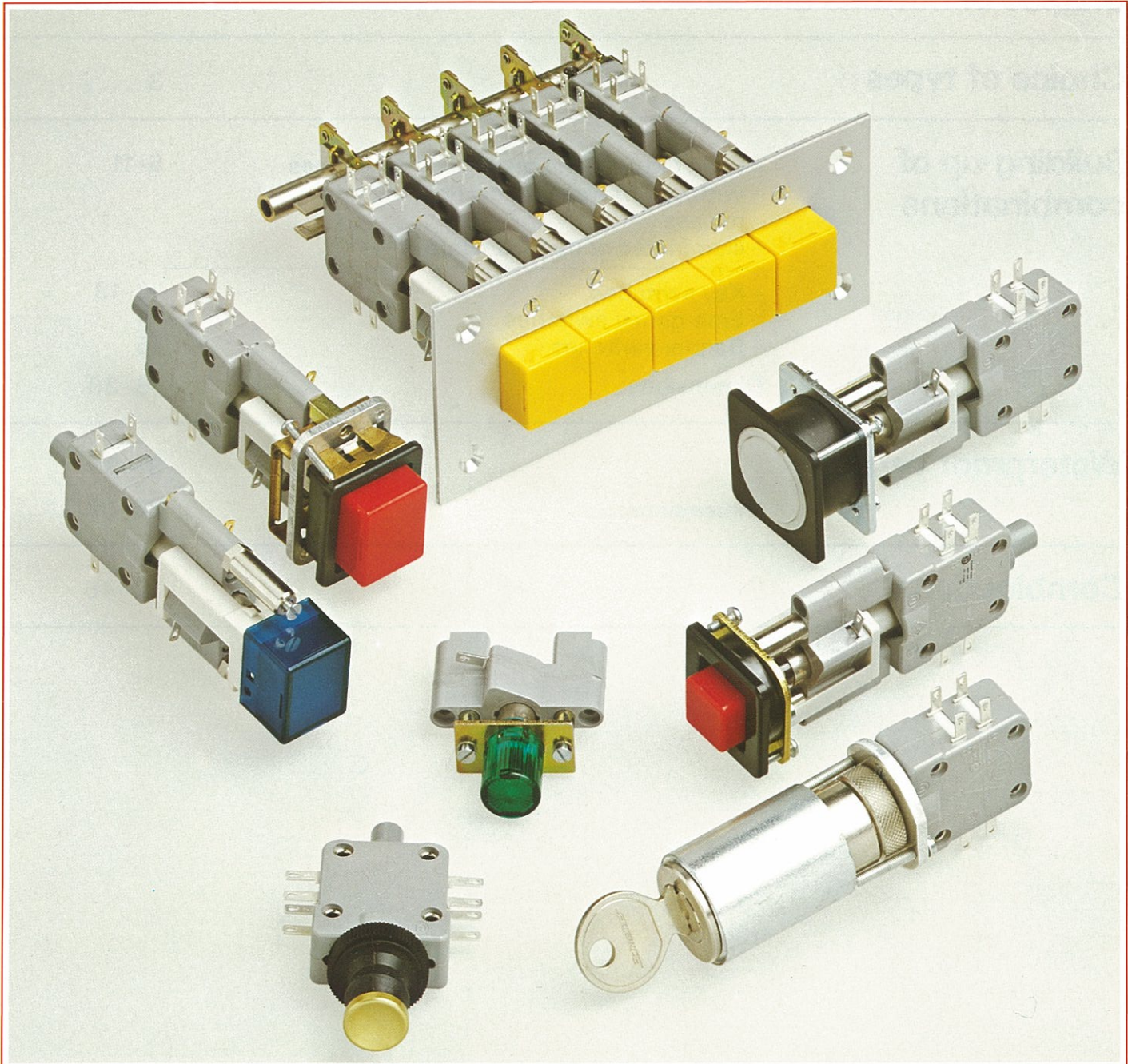


Control and signalling equipment



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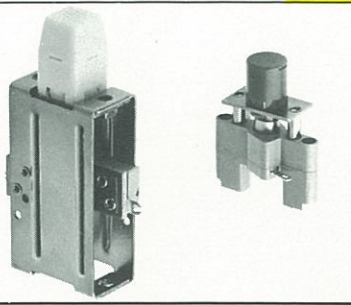
www.schweitzer.ch

Shapes of push buttons and fixing types



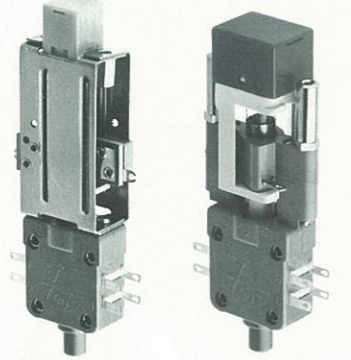
Choice of Types

Indicator lamps L



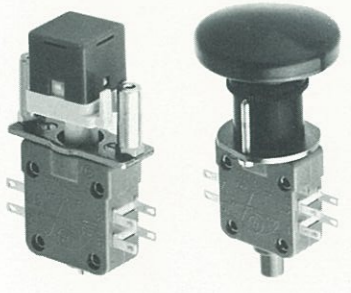
Illuminated push buttons LDT

Illuminated push button switches LDS



Push buttons DT

Push button switches DS



Standardised contact arrangement

Standardised contact arrangement	
Normally Open	Normally Closed
2	0
4	2
6	4
8	6
10	8
12	
14	
16	

Switches with impulse and holding contact for contactors. J



Push button switches with electromagnetic hold-in M

With electromagnetic hold-in and mechanical release MH

With mechanical hold-in and electromagnetic release E

With electromagnetic and mechanical release EH

Voltage of hold-in solenoid

6 12 24 36 48 60 Volts DC

Button colours

transparent Macrolon k

translucent Macrolon (opal) o

Button materials

transparent Macrolon k

translucent Macrolon (opal) o

Lens shapes

R 15									
C 15									
Q 15									
W 15									
W 20									
U 25									
U 20									
W 24									
R 22									
R28									

Button shapes

R 9									
RP 15									
RP 30									
RP 45									

Fixing

2 screws M 2.6	Central with ring nut	Central with square bezel	Central with square bezel	Flush with round bezel	Central with square bezel	Flush with cover	Central with rubber seal	Flush with rubber seal	Flush with rubber seal and cover
F	Z	Z	Z	V	V	VA	ZG	VG	VG A

Lamp-socket

PTT T 6,8 or Ba 9s

PTT 2 x T 5,5 or Ba 9s

Filament Lamp Voltages

6 12 24 36 48 60 Volts

Neon Lamp Voltages

110 220 Volts AC

for Ba9s and transparent lenses only

Designation of complete type:

LDS 4 2 MH 48 W 24 w o F Ba9s 24

Example: LDS 42 MH 48 W 24 w o F Ba 9s 24

Build up code from left to right selecting only one variant from each of the coloured tables. After each coloured table select only one guide-line to the right.

***)Indicate panel thickness**

Push buttons and push button switches with or without illumination

Offer a wide variety of new combinations for assembly in groups on the modular principle with various mechanical and electro-mechanical interlocking, locking and release systems.

The contact block comprises a precision switching element of miniature dimensions suitable for tropical operation. Its robust construction ensures complete reliability, particularly in applications where competitive switches have failed.

The contact springs are made in beryllium bronze, hardened and silver plated. The contacts are of fine silver. Both springs and contacts can be gold-plated to a thickness of 5µ. The self-cleaning, sliding-type contacts are particularly suitable for industrial applications with dusty or corrosive atmospheres.

The switching elements are available in two versions, with the following contact arrangements:

All switching elements are available in two basic versions:
Push button **type DT**
Push button Switch **type DS**

On push buttons **type DT**
 contact is only maintained as long as pressure is applied.

On push button switches **type DS**
 with mechanical hold-in contacts are maintained after pressure is released.

A second pressure re-sets the switch to its normal position.

By mounting several switch elements together the numbers of contacts can be increased as shown below.

2 × type 22 becomes: **Type 44**
 4 normally open / 4 normally closed

Type 42 + Type 22 becomes: **Type 64**
 6 normally open / 4 normally closed

3 × type 22 becomes: **Type 66**
 6 normally open / 6 normally closed

2 × type 42 becomes: **Type 84**
 8 normally open / 4 normally closed

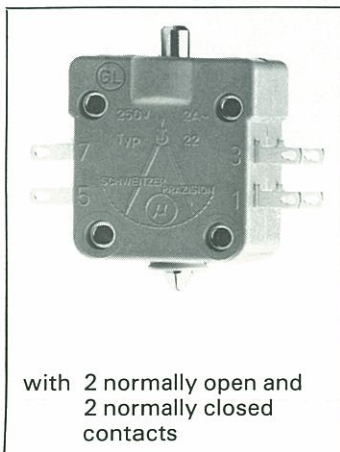
Type 42 + 2 × type 22 becomes: **Type 86**
 8 normally open / 6 normally closed

4 × type 22 becomes: **Type 88**
 8 normally open / 8 normally closed

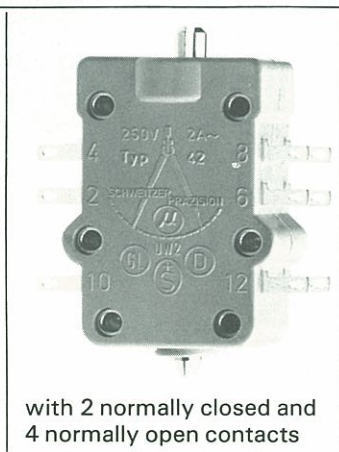
2 × type 42 + type 22 becomes: **Type 106**
 10 normally open / 6 normally closed

Etc.

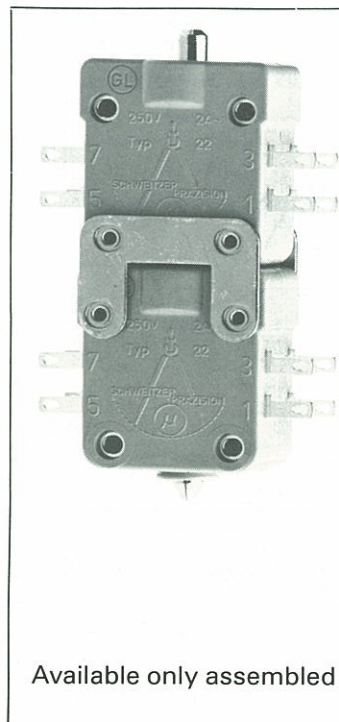
Type 22



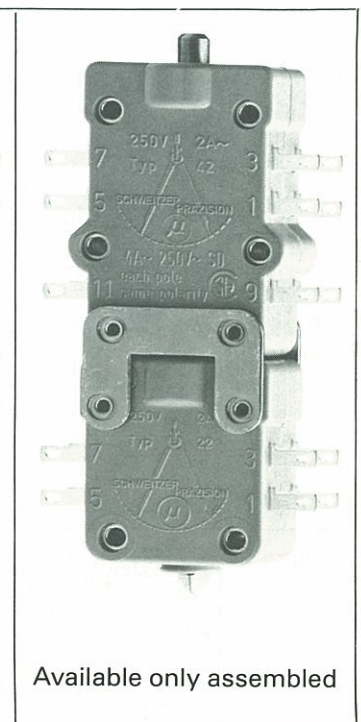
Type 42



Type 44



Type 64



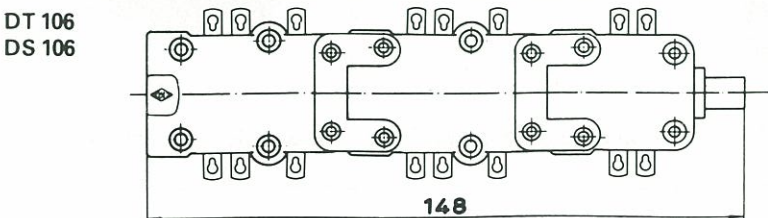
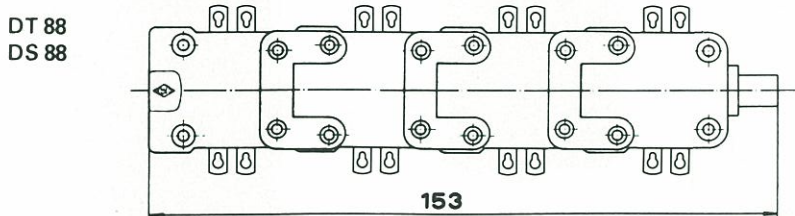
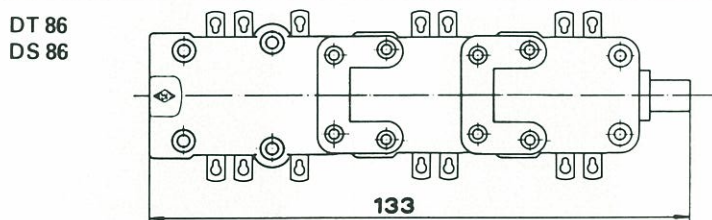
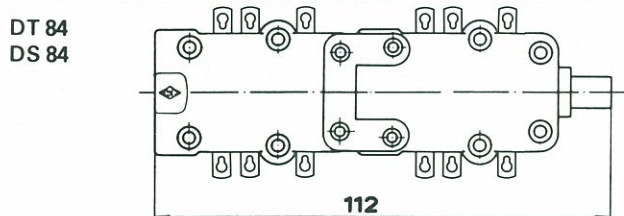
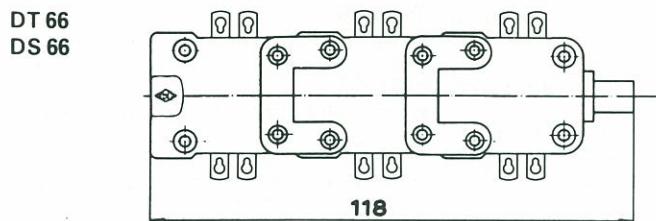
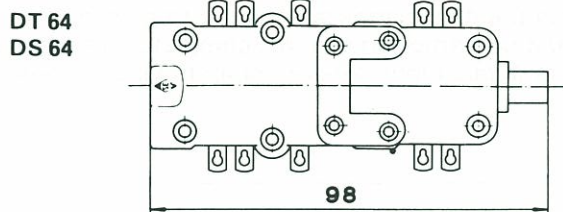
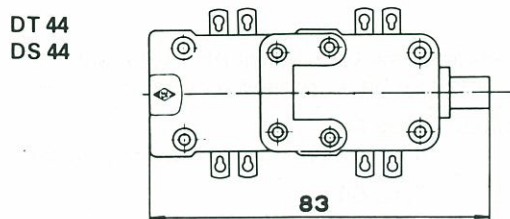
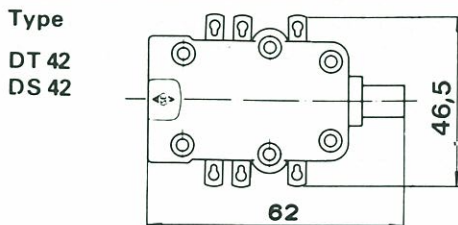
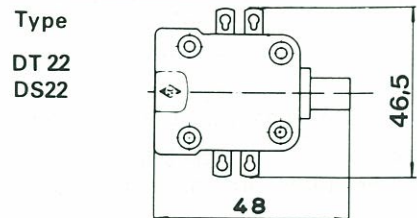
Technical details

- Contact pressure: c. 150 g
- Contact resistance: < 10 mΩ
- Insulation resistance between contacts: > 10⁴ MΩ
- Contact rating: 2 A at 250 V AC
- Test voltage: 2000 V for 1 minute

Switch element in tough plastic (melamin resin)
 Protection Type IP 67 possible



Series Mounting (Standard) Parallel Mounting

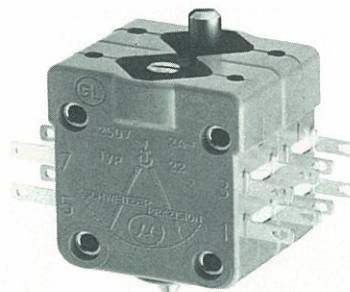


Parallel mounting.

Available to special order
Reference-No. = N

When space behind the panel is limited, the switching elements can also be assembled parallel in blocks operated by a single push button.

Fig. = Type DT 44 N 15 / Spacing 15 mm



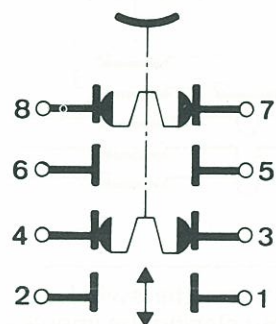
Push button switches and push buttons

Provide new approaches in modern control switching techniques.

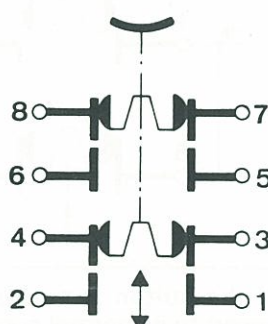
For special applications the switching elements can be provided with make before break contacts, or break before make contacts.

Combined switching elements, in which contacts 1-2 / 3-4 provide make before break switching, whilst the other contacts 5-6 / 7-8 provide break before make switching.

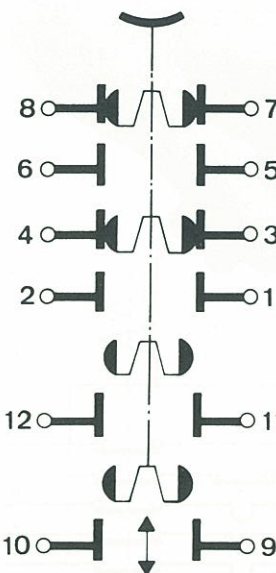
Type 22 break before make switching



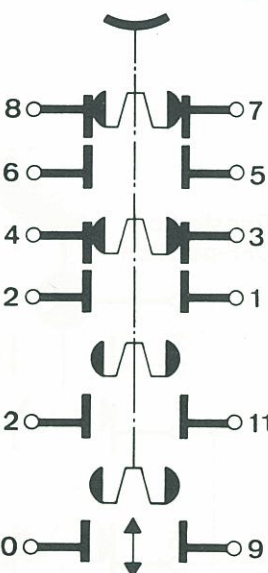
Type 22 make before break switching



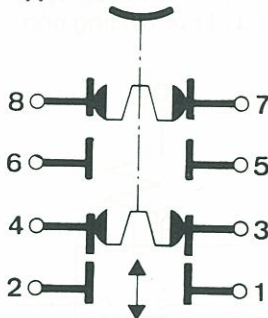
Type 42 break before make switching



Type 42 make before break switching

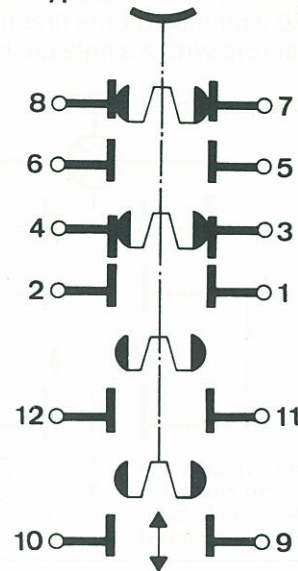


Type 22

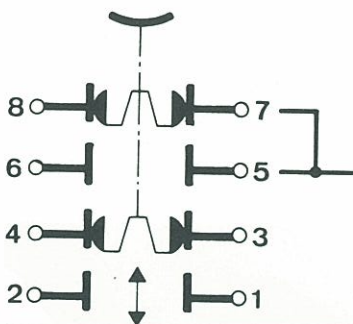


Contacts 1-2 / 3-4
make before break switching
Contacts 5-6 / 7-8
break before make switching

Type 42



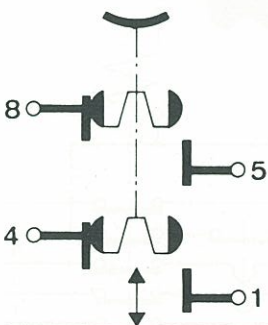
To obtain a change over contact connect 1(2) NOC with 1(2) NCC with external wiring



Type 22

change-over
normally closed
normally open

Switching elements can also be supplied with fleeting contacts which close briefly during the operation of the push button, but which provide no continuity when the push button is fully out or fully in.



Type 22

One normally closed contact combined with one normally open contact provides one fleeting contact.

All types of switching element can also be supplied with special contact arrangements to provide, for example: contact 1-2 closes before contact 5-6.

Switching elements can also be provided with one set of contacts giving make before break switching and the other giving break before make switching.

Other special contact arrangements as described in next column can be supplied to customers' specification.

All switching elements are available in two versions:

Push button

Push button switch

Type DT
Type DS