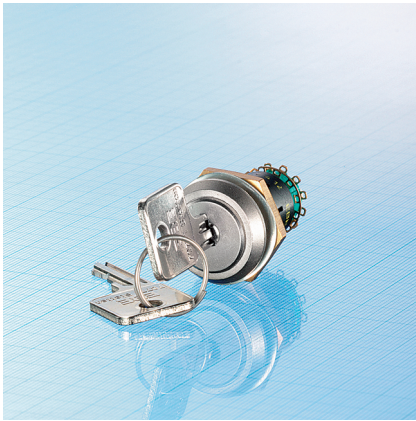


## Keylock Switch S40/S60



Keylock switch with multiple locking functions.

- Cylinder locks with 5 tumblers.
- Positions in which the key cannot be retained are freely selectable.
- Up to 200 different locks possible.
- Gold contacts on request.
- Impulse contact for first or last switching position (spring return).
- Type S40: Max. 4 levels per switch for free wiring.
- Type S60: with one level alternatively for printed circuits or free wiring.
- Locking versions:
  - Identical key codes, A.
  - Different key codes (max. 200), B.
  - Master key system: Up to 15 different locks can be operated with one main key, C.
  - Pass key system: Up to 9 keys in max. 3 groups. Main key for all keys, pass keys for up to 3 locks per group, D.
  - Up to 4 different priority status keys, E.
  - Central locking key system: Up to 9 different key lock switches and one central key lock switch, which can be operated with all keys, F.
  - Different keys to switch clockwise or anti-clockwise from a neutral position, G.

### 1.0 Construction

1.1 Number of wafers max.	4 wafers
1.2 Switching combinations per wafer Design B, detent angle 60°	1x6 to 1x2; 2x3 to 2x2; 3x2; 4x2
Design E, detent angle 30°	1x12 to 1x2; 2x6 to 2x2; 3x4 to 3x2; 4x3 to 4x2
1.3 Contacts	Soldering lugs, Single-wafer switch also with pins (S60)
1.4 Mounting	Central front-mounting. Upon request back mounting with front ring which can be screwed on

### 2.0 Electrical Data

		Ag-version
2.1 Switching power max.		10 VA/W
2.2 Switching voltage max.		115 V-
2.3 Switching current max.		0,5 A
2.4 Rest current max. at $\partial u$ 20°C		2 A
2.5 Test voltage	between contacts	900 V
	at 50 Hz	
	contact / ground	1000 V
	keylock / switch	10 kV
2.6 Life expectancy without electrical load		$\geq 25\,000$ cycles
2.7 Contact resistance initial value		$< 20\,m\Omega$
2.8 Insulation resistance		$1 \times 10^{11}\Omega$

### 3.0 Mechanical Data

3.1 Switching mode	Shorting or non-shorting
3.2 Stops	Fixed or without stop
3.3 Operating torque according to design	$\geq 6\,Ncm$
3.4 Stop strength	$\geq 70\,Ncm$
3.5 Fastening torque max	$\geq 200\,Ncm$
3.6 Dust protection	Sealed wafers
3.7 Waterproofing	Special version watertight against front panel or internally against the switch

### 4.0 Other Data

4.1 Contact material	Ag; Au on request
4.2 Insulating material	Wafer: Diallylphthalate, DAP; Code DI
	Rotor: Noryl, PPO; Code NO
4.3 Soldering time and temperature max.	5s at 260°C
	3s at 350°C, manual soldering

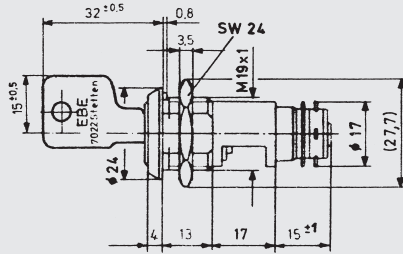
#### Ordering codes

#### Locking versions

- A** = Identical key codes
- B** = Different key codes (max. 200)
- C** = Master key system: Up to 15 different locks can be operated with one main key
- D** = Pass key system: Up to 9 keys in max. 3 groups. Main key for all keys, pass keys for up to three locks per group.
- E** = Up to 4 different priority status keys.
- F** = Central locking key system: Up to 9 different key lock switches and one central keylock switch, which can be operated with all keys
- G** = Different keys to switch clockwise or anti-clockwise from a neutral position

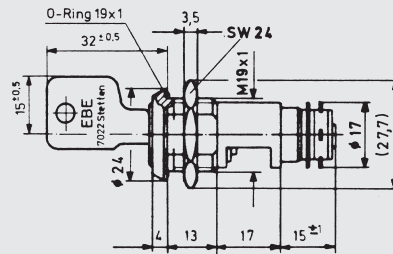
The bold-typed data in the yellow order blocks remain unchanged.  
 Normal-typed data match the drawings and can be modified according to your wishes.  
 Blanks need to be completed according to the ordering details on the previous page and the inside front cover.

### Dimensional Drawings · Dimensions in mm



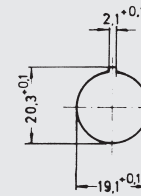
**S40** - 1 - 2 - 3 - 6 - 7 - **DI8** - 9 - 110 - **L11** - Keylock version

S40 MX · Standard version

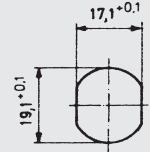


**S40** - 11 - 2 - 3 - 6 - 7 - **DI8** - 9 - 110 - **P11** - **WD13** - Keylock version

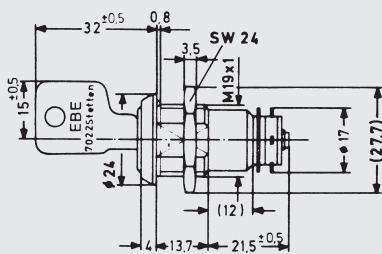
S40 MXD · Sealed version



Mounting layout

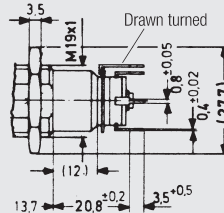


Mounting layout on request



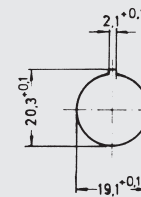
**S60** - 11 - 2 - 3 - 6 - 7 - **DI8** - 9 - 110 - **L11** - Keylock version

S60 MX · Standard version

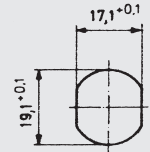


**S60** - 11 - 2 - 3 - 6 - 7 - **DI8** - 9 - 110 - **P11** - Keylock version

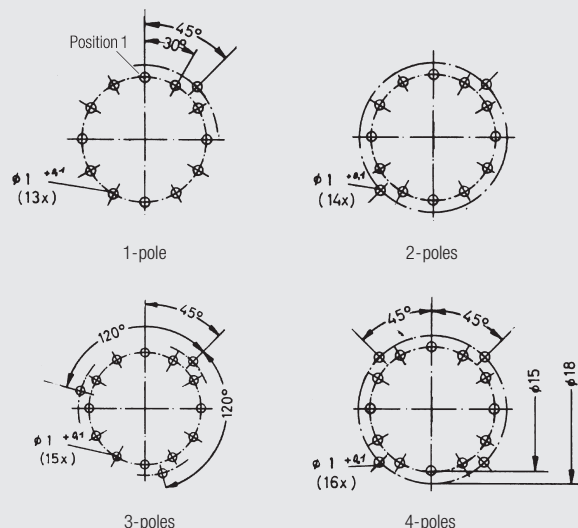
S60 EMX · Soldering pin version



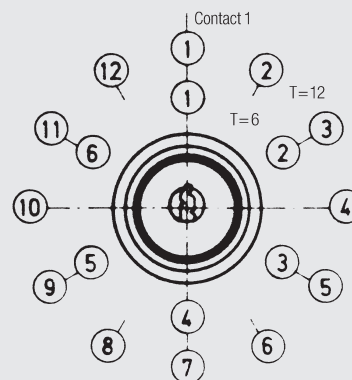
Mounting layout



Mounting layout on request



Drill scheme for wafers – view from mounting side



#### Withdrawable and non-retainable keys

Please copy this drawing and mark the positions with an x where the key cannot be withdrawn or specify with order. Otherwise all keys can be withdrawn in all positions.

Non-retainable key positions