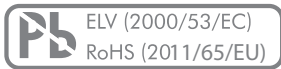


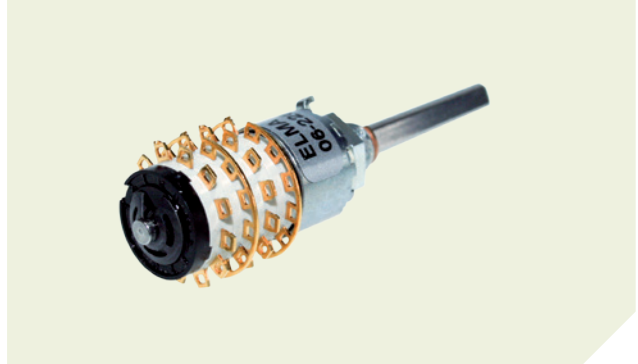
**MAIN FEATURES**

COMPACT, VERSATILE, MULTI WAFER, UP TO 12 POSITIONS

- 25'000 switching cycles with up to 9 Ncm switching torque
- Gold plated contacts: 3 micron
- Robust metal housing with metal shaft
- Operating temperature range: -40° to +85°C
- Various options and customizations

**PRODUCT VARIETY**

- From 1 x 12 to 4 x 3 poles x positions per wafer
- Up to 8 wafers
- Shorting or non-shorting
- Switching torque 3, 6 or 9 Ncm
- Configurable End-Stops
- Shaft length

**TYPE 06****POSSIBLE CUSTOMIZATIONS**

- Shaft dimension and shape
- Bushing dimensions
- Switching torque
- Hollow shaft, inner shaft (see page 100)
- Others

**TYPICAL APPLICATIONS**

- Industrial controls
- Avionics, instrumentation, test systems
- Medical and audio equipment
- Construction

**1 PREFERENCE TYPES SELECTION CHART**

<sup>1</sup> For other types/options, see type key.

CONTACT ARRANGEMENT		NUMBER OF WAFERS	FUNCTION (POLES X POSITIONS)	PART NUMBER	
COMMON CONTACT HALF	DISCRETE CONTACT HALF			SHORTING	NON-SHORTING
		1	1 x 12, endless rotating	06-1103	06-1104
		2	2 x 12, endless rotating	06-2103	06-2104
		3	3 x 12, endless rotating	06-3103	06-3104
		4	4 x 12, endless rotating	06-4103	06-4104
		1	1 x 12	06-1113	06-1114
		2	2 x 12	06-2113	06-2114
		3	3 x 12	06-3113	06-3114
		4	4 x 12	06-4113	06-4114
		1	2 x 6	06-1263	06-1264
		2	4 x 6	06-2263	06-2264
		3	6 x 6	06-3263	06-3264
		4	8 x 6	06-4263	06-4264
		1	3 x 4	06-1343	06-1344
		2	6 x 4	06-2343	06-2344
		3	9 x 4	06-3343	06-3344
		4	12 x 4	06-4343	06-4344
		1	4 x 3	06-1433	06-1434
		2	8 x 3	06-2433	06-2434
		3	12 x 3	06-3433	06-3434
		4	16 x 3	06-4433	06-4434
		1	4 x 3	06-1433	06-1434
		2	8 x 3	06-2433	06-2434
		1	4 x 3	06-1433	06-1434
		2	8 x 3	06-2433	06-2434
		3	12 x 3	06-3433	06-3434
		4	16 x 3	06-4433	06-4434
		2	Binary code 0-11	06-2913	06-2914
		2	Binary code 0-11	06-2913	06-2914

**STOP SCREWS**

Configurable stop screws can be set at any position between 2 and the maximum. Stop screws have to be ordered separately.

	PACKAGING SIZE	PART NUMBER
Stop screw M1.2	10 pcs.	4224-11
Stop screw M1.2	100 pcs.	4224-10
Hex nut M7 x 0.75	10 pcs.	4224-16

## SPECIFICATIONS

### MECHANICAL DATA

Resolution:	12 positions max. (30° indexing)
Switching torque (new condition):	3, 6 or 9 Ncm (+/- 25%), additional wafers may increase switching torque
Rotational life:	25'000 switching cycles min.
Fastening torque of nut:	200 Ncm max.

### ELECTRICAL DATA

Function:	From 1 x 12 to 4 x 3 poles x positions per wafer (max. 8 wafers)
Switching mode:	Shorting or non-shorting
Load current:	1.5 A max. (resistive load)
Switching voltage:	42 VDC max.
Contact resistance (new condition):	10 mΩ max.
Insulation resistance:	10 <sup>13</sup> Ω min. (contact to contact / housing)
Switching capacity:	1 pF max. (contact to contact)
Dielectric withstanding voltage:	500 VDC during 60 seconds

### MATERIAL DATA

Shaft:	Stainless steel
Bushing/housing:	Zinc diecast, zinc plated and passivated
Nut:	Brass, zinc plated and passivated
Contact plating:	Gold; 3 μm
Insulation material:	Wafer: Diallylphtalat (DAP), rotor: Polyacetal (POM)
Soldering leads:	Alloy copper, gold plated

### ENVIRONMENTAL DATA

Operating/storage temperature range:	-40° to +85°C
IP sealing:	IP60 shaft/front panel sealing
Vibration:	10 G <sub>rms</sub> max. @ 10 to 2000 Hz
Flammability:	UL94-HB

### PACKAGING QUANTITY

Tray:	10 pcs.
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### SOLDERING CONDITIONS

Hand soldering:	340°C max. during 2 sec max.
Wave soldering:	280°C max. peak temperature during 5 sec max.

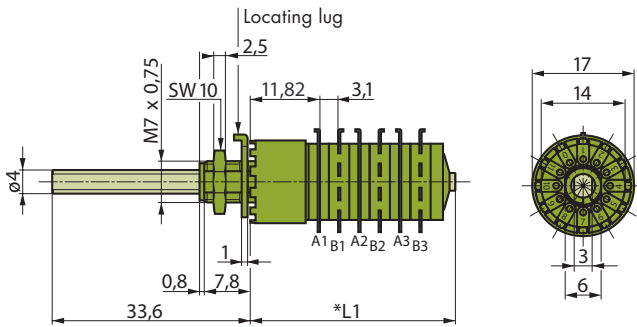
## SWITCHING MODES

For information about switching mode please see **technical explanations** at the end of the catalog

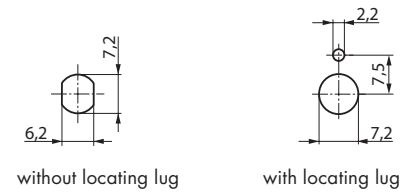
**DRAWINGS**

Tolerances unless otherwise specified DIN ISO 2768-1 (m)

**WITH SOLDER EYELETS**



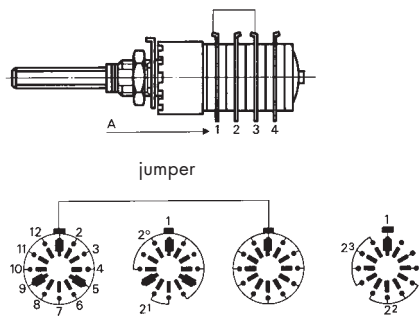
**FRONT PANEL CUT OUT**



SW - Key spanner  
Ax - Common contact half of wafer x  
Bx - Discrete contact half of wafer x

\*L - 1 wafer 21 mm  
2 wafers 28 mm  
3 wafers 35 mm  
4 wafers 42 mm  
Per additional wafer +7 mm

**SWITCH WITH BCD CODING**



12 positions; the coding will be made according to the layout on the left.

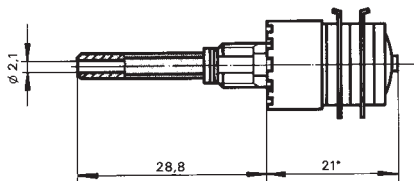
Limiting positions to 10 (BCD) is done with a stop screw M1.2 x 2.5.

**BCD Coding**

	8	4	2	1
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				

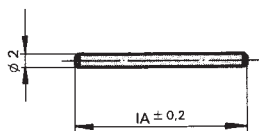
On  
 Off

**HOLLOW SHAFT SYSTEM (CUSTOMIZED SOLUTION)**



**HOLLOW SHAFT**

Available for switches up to 4 wafers; inner shaft ( $\varnothing 2$  mm) has to be ordered separately.



**INNER SHAFT**

For switches with mounting plate or hollow shaft. Hollow shaft must be ordered separately.

# SELECTOR SWITCH TYPE 06

## TYPE KEY

