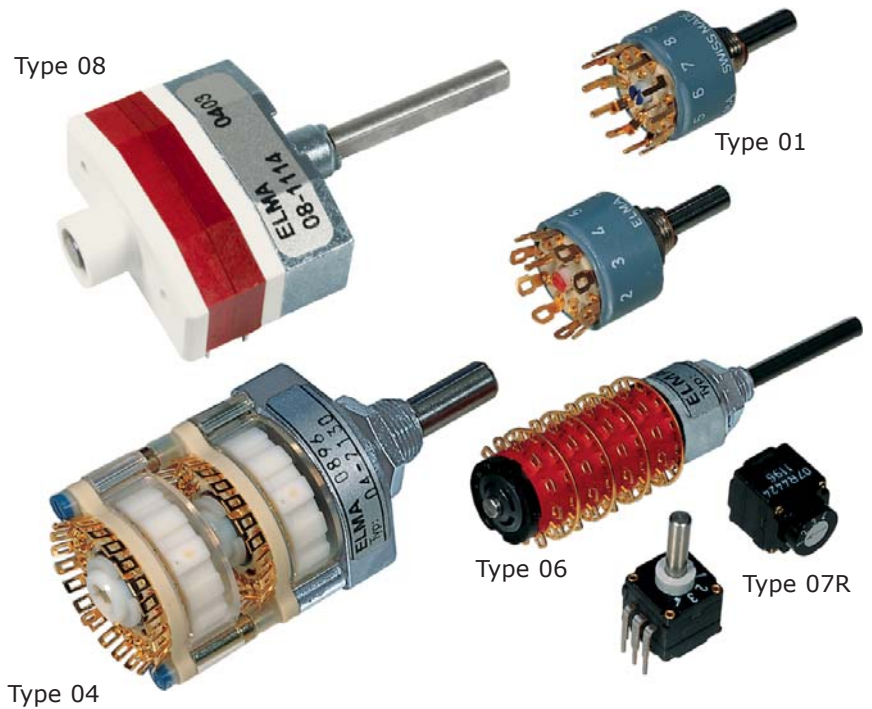


Rotary Switches Overview

- with steel spindle-shaft and high grade plastic housing-suitable for hand or wave soldering
- for rugged applications

Our ability to adapt existing components to your application, makes Elma your preferred solution partner.



Technical Data

Designation	Type 01	Type 04	Type 06	Type 07R	Type 08
Dimension	Ø 18 mm	Ø 32 mm	Ø 17 mm	10 x 10 mm	31 x 13 mm
Number of positions	12	24	12	4	12
Function (Pole x Position)	1 x 12 2 x 6 3 x 4 4 x 3 1 x 10 1 x 6 2 x 3 4 x 2	1 x 24 2 x 11 3 x 7 4 x 5 6 x 3	1 x 12 2 x 6 3 x 4 4 x 3	1 x 4	1 x 12 2 x 6 3 x 4 4 x 3
Max. number of wafers	2	any	8	1	8
Indexing angle	30°, 36°, 60°	15°, 30°	30°	36°	30°
Processing	hand and wave soldering	hand and wave soldering	hand soldering	wave soldering reflow (on req.)	wave soldering
Assembly on print (PCB)	vertical	vertical	-	horizontal/vertical	horizontal
Contact material	gold flash, gold 3µm	gold flash, gold 3µm	gold flash, gold 3µm	gold 3µm	gold 3µm
Life expectancy (switching cycles)	> 25 000	> 25 000	> 25 000	> 40 000	> 25 000
max. switch load	2V/1,0A 24V/0,5A 42V/0,4A	2V/2,0A 24V/0,6A 42V/0,4A	1V/1,5A 24V/0,3A 42V/0,2A	<24V/5VA 2V/0,2A 24V/0,2A 42V/0,12A	1V/1,5A 24V/0,3A 42V/0,2A
	page 20-21	page 22-23	page 24-25	page 26-27	page 28-29
Technical Data	page 90-95	page 96-102	page 103-107	page 109-113	page 114-119

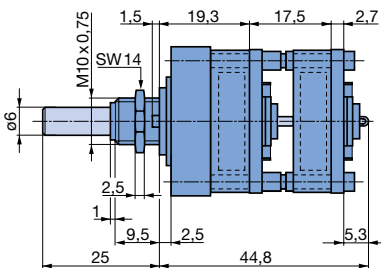
Rotary Switches Type 04

- 24 position switch
- life expectancy > 25 000 switching cycles
- steel spindle-shaft and metal bush for rugged applications
- modular system allows easy adaptation of standard products
- gold flash contact standard



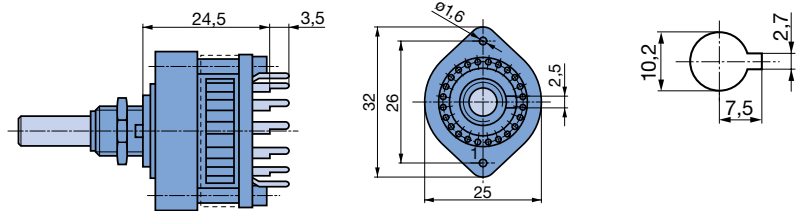
With solder eyelets

SW = key spanner

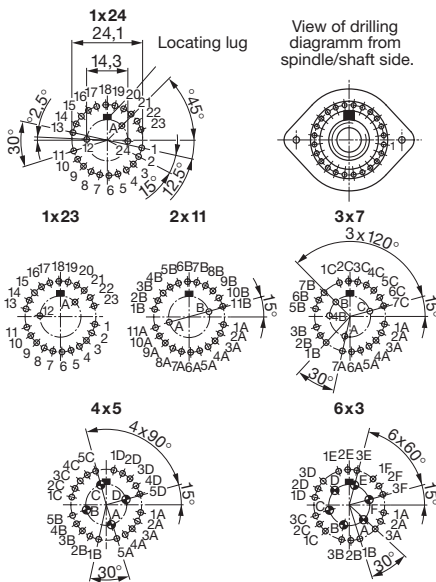


With solder pins for PCB mounting

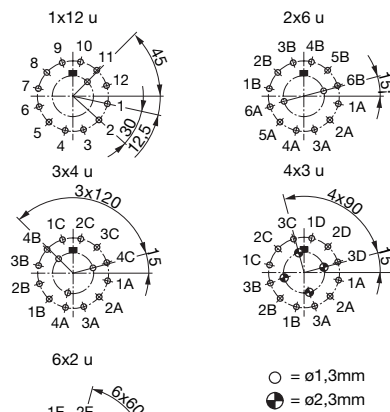
Front panel cut out



Drilling diagram for indexing angle 15°



Drilling diagram for indexing angle 30°









Possible modifications on request

- special type of shaft (length, diameter, form)
- special torque
- waterproof
- special end stop
- shortened bush
- hollow shaft/inner shaft

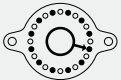





Stop screws M 1,4 (package of 10 pieces)	4124-21
Stop screws M 1,4 (package of 100 pieces)	4124-20
Bushing Nut (package of 10 pieces)	4124-41

Indexing angle 15°, shorting (non-shorting on request)

Contact arrangement	Construction	Function (Pole x Position)	with solder eyelets		with pins for PCB	
			gold flash	gold 3 µm	gold flash	gold 3 µm
	1—H	1 x 24 o.A.	04-1100	04-1103	04-1100-20	04-1103-20
	2—HH	2 x 24 o.A.	04-2100	04-2103	—	—
	3—HHH	3 x 24 o.A.	04-3100	04-3103	—	—
	4—HHHH	4 x 24 o.A.	04-4100	04-4103	—	—
	1—H	1 x 24	04-1130	04-1133	04-1130-20	04-1133-20
	2—HH	2 x 24	04-2130	04-2133	—	—
	3—HHH	3 x 24	04-3130	04-3133	—	—
	4—HHHH	4 x 24	04-4130	04-4133	—	—
	1—H	2 x 11	04-1210	04-1213	04-1210-20	04-1213-20
	2—HH	4 x 11	04-2210	04-2213	—	—
	3—HHH	6 x 11	04-3210	04-3213	—	—
	4—HHHH	8 x 11	04-4210	04-4213	—	—
	1—H	3 x 7	04-1370	04-1373	04-1370-20	04-1373-20
	2—HH	6 x 7	04-2370	04-2373	—	—
	3—HHH	9 x 7	04-3370	04-3373	—	—
	4—HHHH	12 x 7	04-4370	04-4373	—	—
	1—H	4 x 5	04-1450	04-1453	04-1450-20	04-1453-20
	2—HH	8 x 5	04-2450	04-2453	—	—
	3—HHH	12 x 5	04-3450	04-3453	—	—
	4—HHHH	16 x 5	04-4450	04-4453	—	—
	1—H	6 x 3	04-1630	04-1633	04-1630-20	04-1633-20
	2—HH	12 x 3	04-2630	04-2633	—	—
	3—HHH	18 x 3	04-3630	04-3633	—	—
	4—HHHH	24 x 3	04-4630	04-4633	—	—

Indexing angle 30°, non-shorting

packing unit : 10 pieces

Contact arrangement	Construction	Function (Pole x Position)	with solder eyelets		with pins for PCB	
			gold flash	gold 3 µm	gold flash	gold 3 µm
	1—H	1 x 12 u.o.A.	04-1101	04-1104	04-1101-20	04-1104-20
	2—HH	2 x 12 u.o.A.	04-2101	04-2104	—	—
	3—HHH	3 x 12 u.o.A.	04-3101	04-3104	—	—
	4—HHHH	4 x 12 u.o.A.	04-4101	04-4104	—	—
	1—H	1 x 12 u.	04-1121	04-1124	04-1121-20	04-1124-20
	2—HH	2 x 12 u.	04-2121	04-2124	—	—
	3—HHH	3 x 12 u.	04-3121	04-3124	—	—
	4—HHHH	4 x 12 u.	04-4121	04-4124	—	—
	1—H	2 x 6 u.	04-1261	04-1264	04-1261-20	04-1264-20
	2—HH	4 x 6 u.	04-2261	04-2264	—	—
	3—HHH	6 x 6 u.	04-3261	04-3264	—	—
	4—HHHH	8 x 6 u.	04-4261	04-4264	—	—
	1—H	3 x 4 u.	04-1341	04-1344	04-1341-20	04-1344-20
	2—HH	6 x 4 u.	04-2341	04-2344	—	—
	3—HHH	9 x 4 u.	04-3341	04-3344	—	—
	4—HHHH	12 x 4 u.	04-4341	04-4344	—	—
	1—H	4 x 3 u.	04-1431	04-1434	04-1431-20	04-1434-20
	2—HH	8 x 3 u.	04-2431	04-2434	—	—
	3—HHH	12 x 3 u.	04-3431	04-3434	—	—
	4—HHHH	16 x 3 u.	04-4431	04-4434	—	—
	1—H	6 x 2 u.	04-1621	04-1624	04-1621-20	04-1624-20
	2—HH	12 x 2 u.	04-2621	04-2624	—	—
	3—HHH	18 x 2 u.	04-3621	04-3624	—	—
	4—HHHH	24 x 2 u.	04-4621	04-4624	—	—
PCB wafer switch	1—H	0 – 9 BCD u.				04P1913

Contact arrangement from the spindle side u. = non-shorting, o.A. = without end stop, can **not** be adjusted subsequently!
1 mm = 0.04 inch, 1 inch = 25.4 mm

packing unit : 10 pieces

Indexing angle 30°, shorting

Contact arrangement from spindle/shaft side		Function (Pole x Position)	Number of wafers	gold flash	gold 3 μm
common contact half	discrete contact half				
		1 x 12 o.A.	1	06-1100	06-1103
		2 x 12 o.A.	2	06-2100	06-2103
		3 x 12 o.A.	3	06-3100	06-3103
		4 x 12 o.A.	4	06-4100	06-4103
		1 x 12	1	06-1110	06-1113
		2 x 12	2	06-2110	06-2113
		3 x 12	3	06-3110	06-3113
		4 x 12	4	06-4110	06-4113
		2 x 6	1	06-1260	06-1263
		4 x 6	2	06-2260	06-2263
		6 x 6	3	06-3260	06-3263
		8 x 6	4	06-4260	06-4263
		3 x 4	1	06-1340	06-1343
		6 x 4	2	06-2340	06-2343
		9 x 4	3	06-3340	06-3343
		12 x 4	4	06-4340	06-4343
		4 x 3	1	06-1430	06-1433
		8 x 3	2	06-2430	06-2433
		12 x 3	3	06-3430	06-3433
		16 x 3	4	06-4430	06-4433
		Binary code 0-11	2	06-2910	06-2913

Indexing angle 30°, non-shorting

packing unit : 10 pieces

Contact arrangement from spindle/shaft side		Function (Pole x Position)	Number of wafers	gold flash	gold 3 μm
common contact half	discrete contact half				
		1 x 12 u.o.A.	1	06-1101	06-1104
		2 x 12 u.o.A.	2	06-2101	06-2104
		3 x 12 u.o.A.	3	06-3101	06-3104
		4 x 12 u.o.A.	4	06-4101	06-4104
		1 x 12 u.	1	06-1111	06-1114
		2 x 12 u.	2	06-2111	06-2114
		3 x 12 u.	3	06-3111	06-3114
		4 x 12 u.	4	06-4111	06-4114
		2 x 6 u.	1	06-1261	06-1264
		4 x 6 u.	2	06-2261	06-2264
		6 x 6 u.	3	06-3261	06-3264
		8 x 6 u.	4	06-4261	06-4264
		3 x 4 u.	1	06-1341	06-1344
		6 x 4 u.	2	06-2341	06-2344
		9 x 4 u.	3	06-3341	06-3344
		12 x 4 u.	4	06-4341	06-4344
		4 x 3 u.	1	06-1431	06-1434
		8 x 3 u.	2	06-2431	06-2434
		12 x 3 u.	3	06-3431	06-3434
		16 x 3 u.	4	06-4431	06-4434
		Binary code 0-11 u.	2	06-2911	06-2914

Contact arrangement from the spindle side u. = non-shorting, o.A. = without end stop, can **not** be adjusted subsequently!

packing unit : 10 pieces