

DATA SHEET

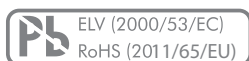
SELECTOR SWITCH TYPE 08

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MAIN FEATURES

HORIZONTAL, MULTI WAFER, PCB MOUNTING, UP TO 12 POSITIONS

- For PCB mounting
- 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°
- 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

TYPE 08



POSSIBLE CUSTOMIZATIONS

- Shaft dimension and shape
- Switching torque
- Hollow shaft, inner shaft (see page 106)
- Others

TYPICAL APPLICATIONS

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

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1 PREFERENCE TYPES SELECTION CHART

¹ For other types/options, see type key.

CONTACT ARRANGEMENT		NUMBER OF WAFERS	FUNCTION (POLES X POSITIONS)	PART NUMBER	
COMMON WAFER PART CONTACT	SWITCHING WAFER PART CONTACT			SHORTING	NON-SHORTING
		1	1 x 12, endless rotating	08-1103	08-1104
		2	2 x 12, endless rotating	08-2103	08-2104
		3	3 x 12, endless rotating	08-3103	08-3104
		4	4 x 12, endless rotating	08-4103	08-4104
		1	1 x 12	08-1113	08-1114
		2	2 x 12	08-2113	08-2114
		3	3 x 12	08-3113	08-3114
		4	4 x 12	08-4113	08-4114
		1	2 x 6	08-1263	08-1264
		2	4 x 6	08-2263	08-2264
		3	6 x 6	08-3263	08-3264
		4	8 x 6	08-4263	08-4264
		1	3 x 4	08-1343	08-1344
		2	6 x 4	08-2343	08-2344
		3	9 x 4	08-3343	08-3344
		4	12 x 4	08-4343	08-4344
		1	4 x 3	08-1433	08-1434
		2	8 x 3	08-2433	08-2434
		3	12 x 3	08-3433	08-3434
		4	16 x 3	08-4433	08-4434

* Common interconnection to be made on PCB.

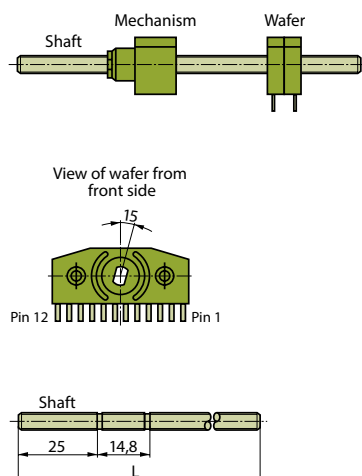
STOP AND FIXING SCREWS

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
Fixing screw M2 x 6	10 pcs.	4224-01

AVAILABLE IN KIT FORM

Mechanism, wafer and shaft are supplied separately. This offers more possibilities to place the switch onto the PC-board.



WAFER

FUNCTIONS (POLES X POSITIONS)	PART NUMBER SHORTING	PART NUMBER NON-SHORTING
1 x 12	4217-10	4218-10
2 x 6	4217-11	4218-11
3 x 4	4217-13	4218-13
4 x 3	4217-12	4218-12

SWITCH MECHANISM

NUMBER OF POLES	POSITIONS	TORQUE	PART NUMBER
≤ 6	12	6 Ncm	4214-10
> 6	12	9 Ncm	4214-12

SHAFT INCLUDING ASSEMBLY MATERIAL

LENGTH L	NO. OF HOUSINGS	PART NUMBER
75 mm	3	4211-05
100 mm	5	4211-10
125 mm	7	4211-15
150 mm	9	4211-20

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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/positions per wafer
Switching mode:	Shorting or non-shorting
Load current:	1.5 A max. (resistive load)
Switching voltage:	42 VDC max.
Contact resistance (new condition):	20 mΩ max.
Insulation resistance (new condition):	10 ¹³ 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
Contact plating:	Gold; 3 μm
Insulation material:	Wafer: PA6/6T, rotor: Polyacetal (POM)
Soldering leads:	Alloy copper, tin plated

ENVIRONMENTAL DATA

Operating/storage temperature range:	-40° to +85°C
IP sealing:	IP60 shaft/front panel sealing
Vibration:	10 G _{rms} 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

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TYPE KEY

