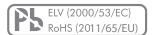
SELECTOR SWITCH TYPE 01



MAIN FEATURES

COMPACT, UP TO 12 POSITIONS

- 25'000 switching cycles with up to 6 Ncm switching torque
- > Gold plated contacts: 3 micron
- > Robust metal bushing and shaft
- > Operating temperature: up to -40° to +85°C
- > Front panel sealing: up to IP68
- Various options and customizations

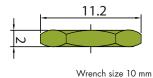




PRODUCT VARIETY

- Soldering eyelets or pins for PCB
- \blacksquare From 1 x 12 to 4 x 3 poles/positions per wafer
- Single or dual wafer
- Indexing angle: 30°, 36° or 60°
- Shorting or non-shorting
- Switching torque: 2, 4 or 6 Ncm
- Front panel sealing: IP60 or IP68
- Configurable End-Stops
- Shaft diameter: 3, 4 or 6 mm
- Shaft length

NUT (SUPPLIED)



M8 x 0.75 <u>Spare Part</u>

Part Number (10 pcs. bag)
- Brass nickel plated: 4024-81

POSSIBLE CUSTOMIZATIONS

- Shaft dimension and shape
- Bushing dimensions
- Switching torque
- Hollow shaft, inner shaft
- Pull/push-to-turn
- Others

TYPICAL APPLICATIONS

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

SELECTOR SWITCH TYPE 01



¹ PREFERENCE TYPES SELECTION CHART

¹ For other types/options, see type key.

INDEXING ANGLE 30°, SHORTING

| CONTACT ARRANGEMENT | NUMBER OF WAFERS | FUNCTION (POLES X POSITIONS) | PART NUMBER WITH SOLDER EYELETS | WITH PINS FOR PCB |
|---|------------------|---------------------------------|---------------------------------|-------------------|
| 12 1 2 11. 13 10 0 4 9 7 6 | - | 1 x 12, endless rotating | 01-1123 | 01-1123-20 |
| | | 2 x 12, endless rotating | 01-2123 | = |
| | | 1 x 12 | 01-1183 | 01-1183-20 |
| | -■□ | 2 x 12 | 01-2183 | - |
| 11/2 3 10(6) 4 9 7 6 | - ■⊡ | 1 x 11 | 01-1113 | 01-1113-20 |
| | | 2 x 11 | 01-2113 | - |
| 68/1-3/4A 58/1-3/4A 58/1-3/5/6A 48/1-3/6/A 38 ₂ 8/18 | | 2 x 6 | 01-1263 | 01-1263-20 |
| | | 4 x 6 | 01-2263 | - |
| 3D, 2A3A 3D, 2AB 2D, 3B 1D, 3B 3C, 3B | - | 4 x 3 | 01-1433 | 01-1433-20 |
| | | 8 x 3 | 01-2433 | _ |

INDEXING ANGLE 30°, NON-SHORTING

| CONTACT ARRANGEMENT | NUMBER OF WAFERS | FUNCTION (POLES X POSITIONS) | PART NUMBER WITH SOLDER EYELETS | WITH PINS FOR PCB |
|---|------------------|---------------------------------|---------------------------------|-------------------|
| 11/2/3 | - = | 1 x 12, endless rotating | 01-1124 | 01-1124-20 |
| 98.765 | | 1 x 12 | 01-1184 | 01-1184-20 |
| 11, 12, 3 10, 0, 3 10, 0, 3 8, 7, 65 | - •⊡ | 1 x 11 | 01-1114 | 01-1114-20 |
| 1A2A3A 6B 1 1A 5B 2 1A 4B 2 16A 4B 2 6A | -⊡ | 2 x 6 | 01-1264 | 01-1264-20 |
| 1A2A3A 3D 1B 2D 2B 1D 2B 3B | -4 ⊡ | 4 x 3 | 01-1434 | 01-1434-20 |

INDEXING ANGLE 36°, SHORTING

| CONTACT ARRANGEMENT | NUMBER OF WAFERS | FUNCTION (POLES X POSITIONS) | PART NUMBER WITH SOLDER EYELETS | WITH PINS FOR PCB |
|-----------------------------------|--------------------|---------------------------------|---------------------------------|-------------------|
| 10 1 2 9 0 3 8 0 4 7 6 5 | -= [-}- | 1 x 10, endless rotating | 01-1103 | 01-1103-20 |
| | - | 1 x 10 | 01-1193 | 01-1193-20 |

INDEXING ANGLE 60°, NON-SHORTING

| CONTACT ARRANGEMENT | NUMBER OF WAFERS | FUNCTION (POLES X POSITIONS) | PART NUMBER WITH SOLDER EYELETS | WITH PINS FOR PCB |
|----------------------------|------------------|---------------------------------|---------------------------------|-------------------|
| 64 1 2 5 4 3 | - €⊡ | 1 x 6, endless rotating | 01-1104 | 01-1104-20 |
| 6, 1 2 5, 0 3 5, 4 3 | - € | 1 x 6 | 01-1164 | 01-1164-20 |
| 3B 1A 2A () 3A 1B 1B | - € | 2 x 3 | 01-1234 | 01-1234-20 |
| 1A 2A 2D 1B 1D 2B | -- €⊡ | 4 x 2 | 01-1424 | 01-1424-20 |

STOP PINS

| PACKAGING UNIT | PART NUMBER |
|----------------|-------------|
| 10 pcs. | 4007-36 |
| 50 pcs. | 4007-35 |

On switches with fixed end-stop, additional stops can be set, by means of a plastic pin, on any position between 2 and the maximum (stop pins to be ordered separately).

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SELECTOR SWITCH TYPE 01



SPECIFICATIONS

| MECHANICAL DATA | | |
|--------------------------------------|---|--|
| Resolution: | 12 positions max. (30° indexing); shorting or non-shorting 10 positions max. (36° indexing); shorting 6 positions max. (60° indexing); non-shorting | |
| Switching torque (new condition): | 2, 4 or 6 Ncm (+/- 25%), additional wafers may increase switching torque | |
| Rotational life: | 25'000 cycles min. | |
| End-stop strenght: | 100 Ncm for 30° indexing angle 150 Ncm for 36° and 60° indexing angle | |
| Fastening torque of nut: | 300 Ncm max. | |
| ELECTRICAL DATA | | |
| Functions: | From 1 x 12 to 4 x 3 poles/positions per wafer (max. 2 wafers) | |
| Switching mode: | Shorting (for 30° and 36° indexing) Non-shorting (for 30° and 60° indexing) | |
| Load current: | 2 A max. (resistive load) | |
| Switching voltage: | 42 VDC max. | |
| Contact resistance (new condition): | $10\ m\Omega$ max. | |
| Insulation resistance: | $10^{11}\Omega$ min. (contact to contact / housing) | |
| Switching capacity: | 1 pF max. (contact to contact) | |
| Dielectric withstanding voltage: | 500 VDC during 60 seconds (pin to pin, pin to housing) | |
| MATERIAL DATA | | |
| Shaft: | Stainless steel | |
| Bushing: | Nickel silver | |
| Housing: | Fiber enforced plastic | |
| Nut: | Brass with glossy nickel plating | |
| Contact plating: | Gold; 3 µm | |
| Insulation material: | Wafer: HF ceramic, rotor: Polybutylene | |
| Soldering leads: | Alloy copper, gold plated | |
| ENVIRONMENTAL DATA | | |
| Operating/storage temperature range: | -40 to +85°C max. | |
| IP sealing: | IP60, optional IP68 (2 bar, 1 h) shaft / front panel sealing | |
| Vibration: | 10 G _{rms} max. @ 10 to 2000 Hz | |
| Flammability: | UL94-HB | |
| PACKAGING QUANTITY | | |
| Tray: | 10 pcs. | |
| 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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SELECTOR SWITCHES TYPE 01

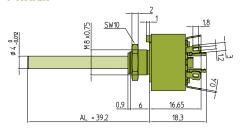


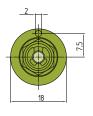
DRAWINGS

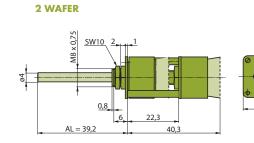
Tolerances unless otherwise specified DIN ISO 2768-1 (m)

WITH SOLDER EYELETS

1 WAFER

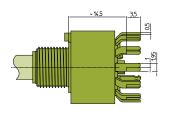






SW = key spanner

WITH PINS FOR PCB

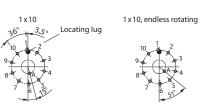




DRILLING DIAGRAM FOR

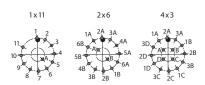


DRILLING DIAGRAM FOR 36° INDEXING ANGLE

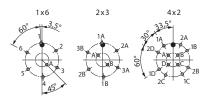


FRONT PANEL CUT OUT

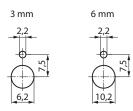




DRILLING DIAGRAM FOR 60° INDEXING ANGLE



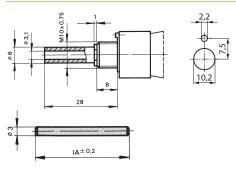
SPECIAL SHAFT DIAMETER

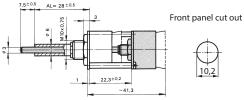


TYPE 01 switches are also available with the following shaft diameters:

| Ø | AL (STANDARD) | BUSHING | NUT SIZE |
|------|---------------|---------------------|----------|
| 3 mm | 59 mm | M6 x 0.75 x 6.0 mm | 10 mm |
| 6 mm | 28 mm | M10 x 0.75 x 8.0 mm | 14 mm |

HOLLOW SHAFT SYSTEM (CUSTOMIZED SOLUTION)





HOLLOW SHAFT

Hollow shaft to allow concentric operation of either two switches or, for example, a switch and a potentiometer. The inner shaft (\varnothing 3 mm) must be ordered separately.

INNER SHAFT

Must be ordered separately for switches with hollow shaft.

SWITCHES WITH CONCENTRIC SHAFTS

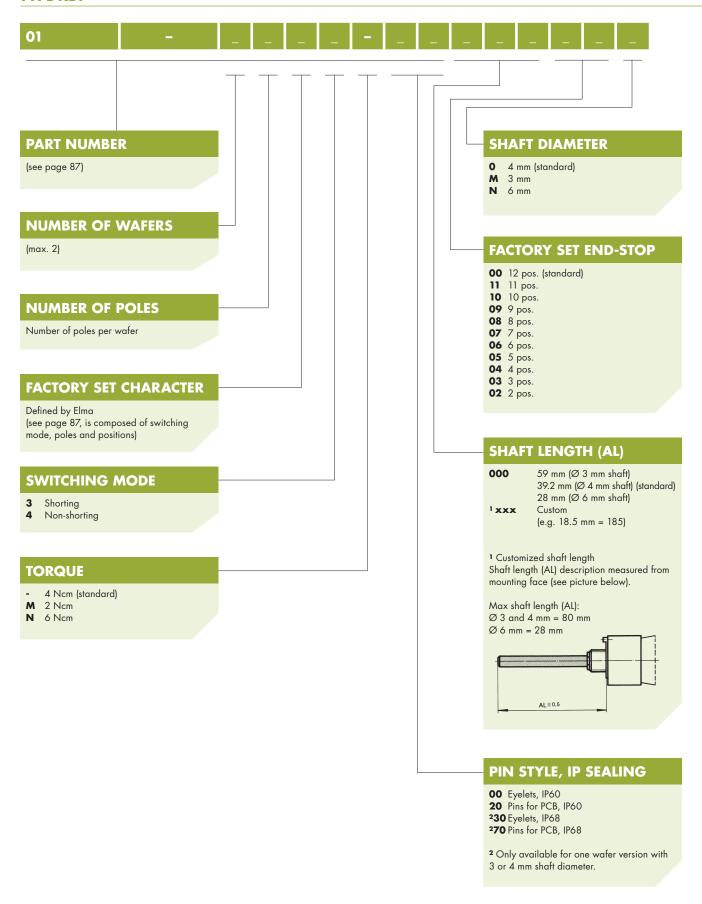
It is possible for two switches to be operated individually by concentric shafts on the same mounting. When ordering, the type number of each switch must be given and specified.

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SELECTOR SWITCHES TYPE 01



TYPE KEY



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