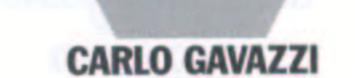
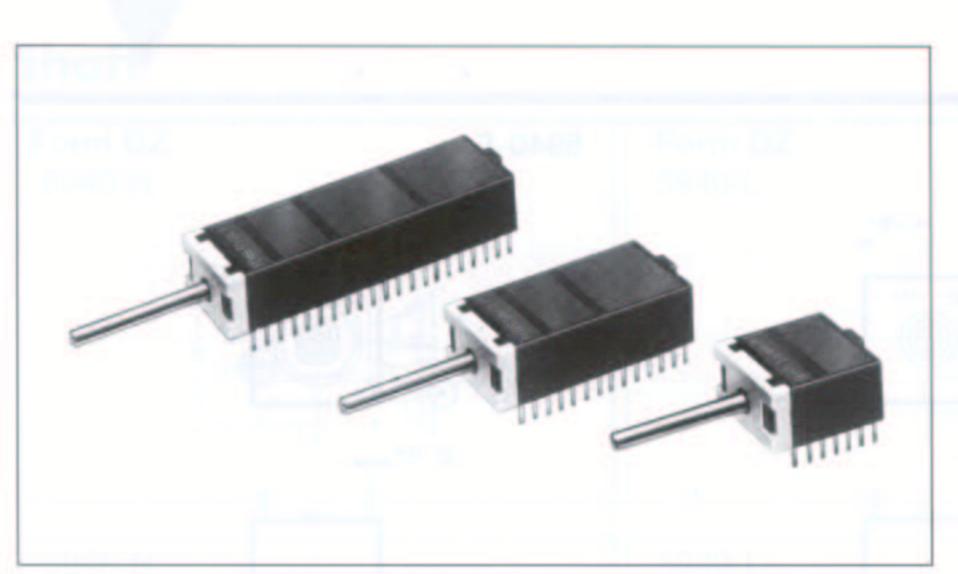
Rotary Switches Series 5940-P





- For dual-in-line circuit application
- · Sealed (IP 67)
- 1 to 3 elements
- 1 to 4 poles, 12 to 2 positions
- Switching current 100 mA/120 VAC/DC
- Short-circuiting or non short-circuiting contacts
- Control parallel to the mounting plane

Product Description

These switches fit particularly for active switching in low level applications and programming use. The switches are sealed to IP 67. Fixed contacts brass, gold over nickel plated, movable contacts gold over silver plated. Contacts may be short-

circuiting (they close the following circuit before opening the preceding one) or non short-circuiting (they close the circuit after having opened the preceding one). Available with three different shaft variants.

Ordering Key 5940-P/3/A/4/25-A

Number of elements
Contact version
Number of switching positions 1)
Shaft length (standard 25 mm)
Shaft form (standard A)

The number of the switching positions to be used can be different from the maximum number indicated for the standard version. Possibility to adjust the stop, see "Stop adjustment".

General Data

Materials

Shaft

Fixed contacts

Movable contacts

Operating torque

Max torque applicable to the stop

Test voltage during 1 min.

Electrical life

3 VA load

Mechanical life

Ambient temperature

Climatic category according to IEC 68-1

Inside protection (IEC 144)

Solvent resistance

Stainless steel
Brass, gold over nickel plated
Gold over silver plated

0.02 ... 0.04 Nm

0.8 Nm

750 V peak/50 Hz

≥ 20000 rotations

≥ 50000 rotations

-40 ... +85 °C

40/085/21

IP 67

Cleaning with freon and ultrasound, flux resistant

Contact Characteristics

Max voltage	120 VAC/DC
Max switching current	100 mA
Non switching current	400 mA
Max switching power	3 VA
Max capacitance between adjacent contacts	4 pF
Contact resistance	≤ 30 mΩ
Insulation resistance between contacts and ground	10 ⁶ ΜΩ



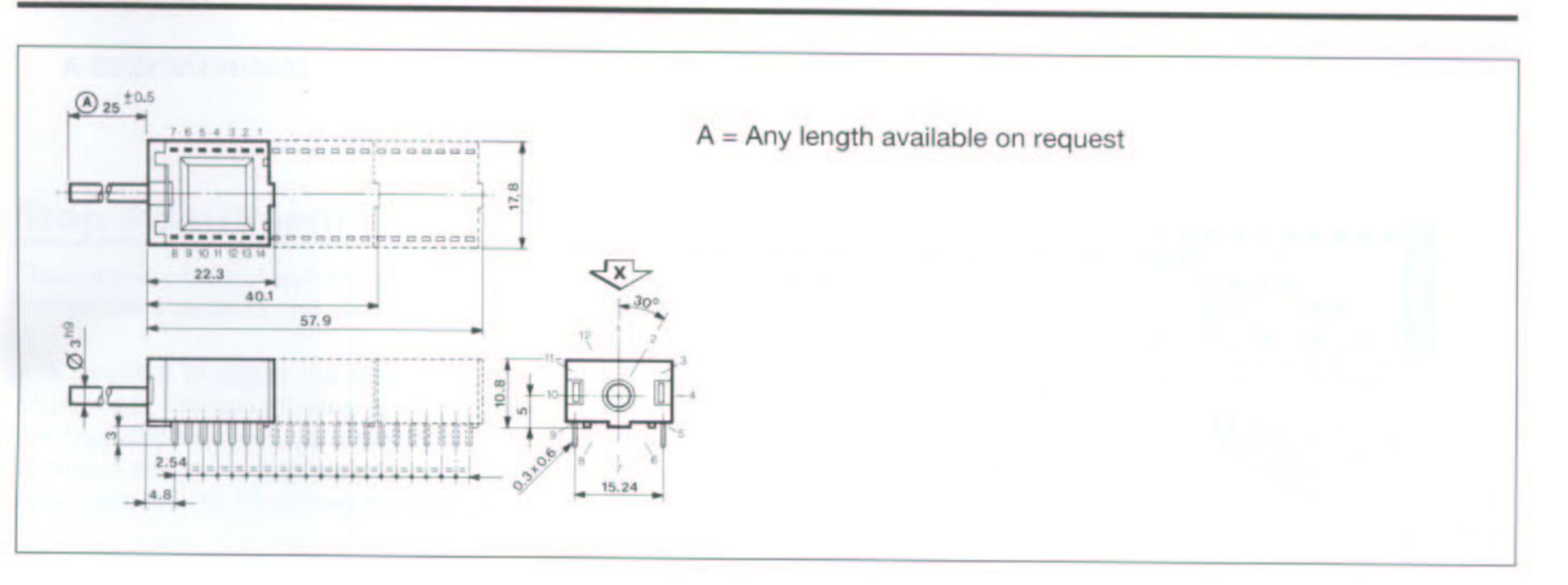
Type Selection, Standard Types

Switching 3) functions	Number of poles/positions active connections	Contact configuration CC (short-circ.) or NC (non short-circ.)	VERSIONS	Ordering No. 1) 2 5940-P types, non protruding shaft
8 9 10 11 12 13 14	1 Pole/12 Positions I II III IV V VI VII VIII IX X XI XII	СС	A	5940-P/./A/12/25-A
(1)	1 2 3 5 6 7 8 9 10 12 13 14 (4/11) (4/11) (4/11) (4/11) (4/11) (4/11) (4/11) (4/11) (4/11) (4/11) (4/11)	NC	В	5940-P/./B/12/25-A
8 9 10 11 12 13 14	2 Poles/6 Positions I II III IV V VI	CC	С	5940-P/./C/6/25-A
		NC	D	5940-P/./D/6/25-A
8 9 10 11 12 13 14	3 Poles/3 Positions	CC	E	5940-P/./E/3/25-A
7 6 5 4 3 2 1	1-2 1-3 1-5 6-7 6-8 6-9 10-12 10-13 10-14	NC	F	5940-P/./F/3/25-A
8 9 10 11 12 13 14	4 Poles/2 Positions	CC	G	5940-P/./G/2/25-A
7 6 5 4 3 2 1	3-5 3-6 7-8 7-9 10-12 10-13 14-1 14-2	NC	н	5940-P/./H/2/25-A

¹⁾ For complete ordering No. insert in place of /./ number of elements: 1...3, e.g. /2/

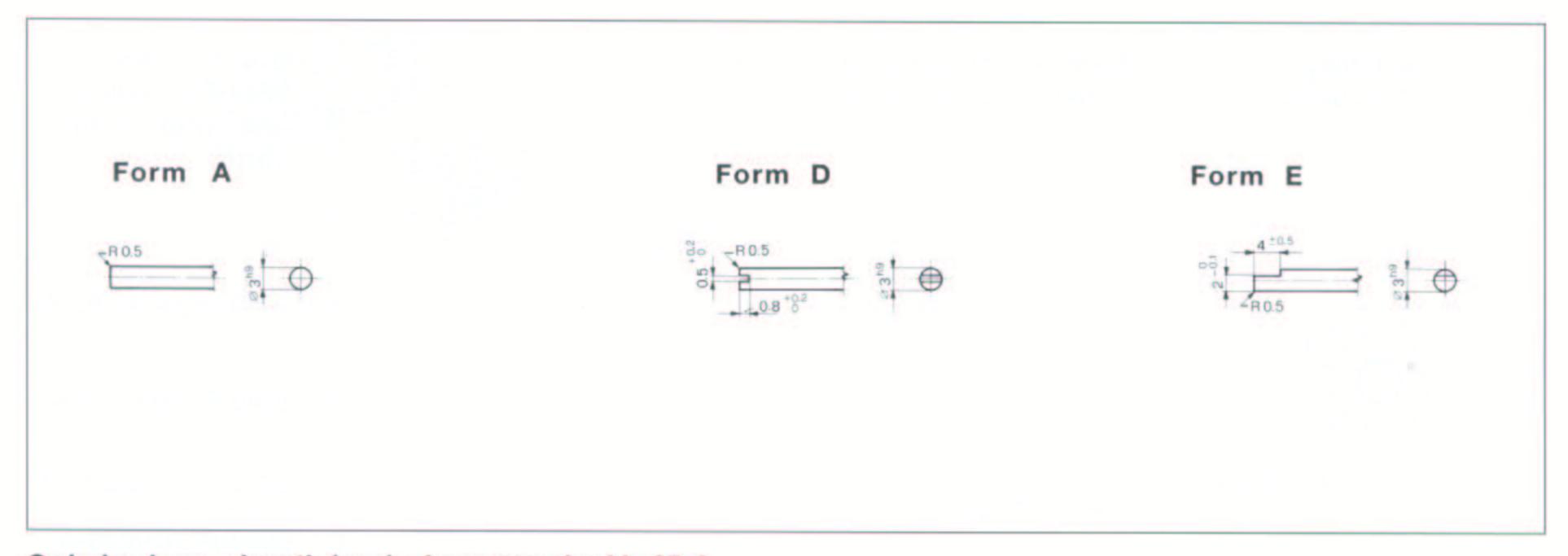
Diagrams are viewed in the direction of see table "dimensions"

Dimensions



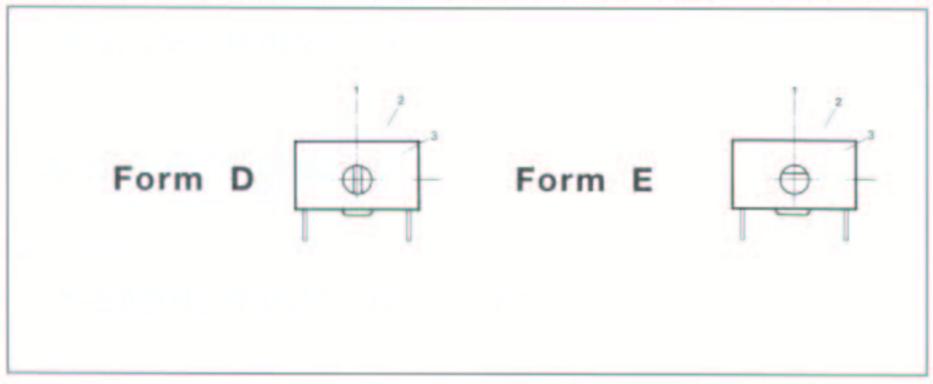
For not standard shafts, replace ...25-A, see table "Shaft variants" page 82.

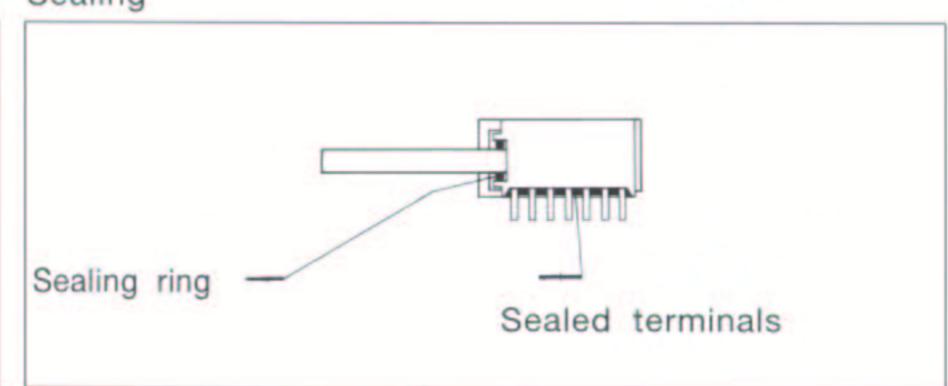
Shaft Variants, Sealing



Ordering key: ... length (mm) - form, standard is 25-A

Angle position of the screwdriver slot (form D) and spindle flat (form E) is seen with the shaft turned counter clockwise. Sealing



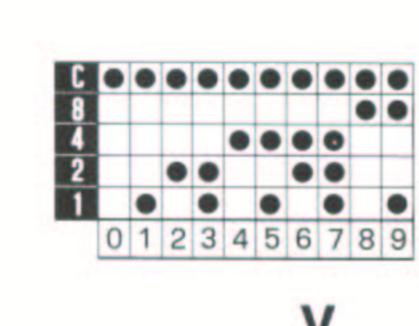


Type Selection, BCD Versions

BCD versions shown are sealed as equivalent standard versions.

Ordering No. 1)

Normal - version "V"



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5940-P/1/V/10/25-A



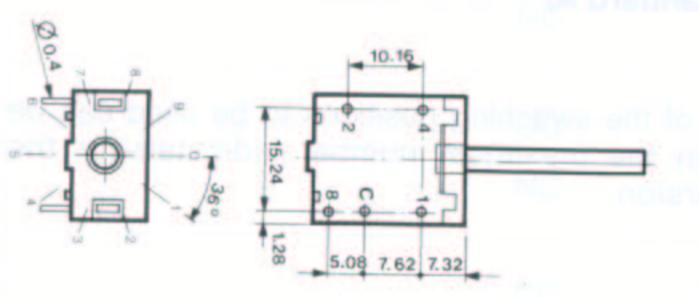
Type Selection, BCD Versions

Ordering No. 1) 5940-P/1/W/10/25-A

1) For not standard shaft see table "Shaft variants" page 82

BCD Versions - Dimensions

BCD switches are supplied without stop. Other dimensions see table "dimensions"



BCD versions

General Data

As different from standard version, other characteristics see table "General data"

Bronze, gold over nickel plated Copper, gold over nickel plated 500 V peak/50 Hz			
			≥ 50000 rotations

Contact Characteristics

As different from standard version, other characteristics see table "Contact characteristics"

Max voltage	30 VAC/DC
Max capacitance between	Particular to the same
adjacent contacts	1 pF
Contact resistance	≤ 70 mΩ
Insulation resistance bet- ween contacts and ground	10 ⁶ ΜΩ

Stop Adjustment

The number of useful switching positions can be lower than maximum specified for standard versions and can be adjusted by customer.

t is possible to adjust the stop and change the number of useful switching positions by moving the stop pin (5) in one of the holes placed circularly on the front plate (4) after removal of the cover (1) acting upon the wings (2). For switches version A and B the stop pin (5) (which they do not have) is supplied separately, upon request. Pin (3) defines the start position No. 1.

