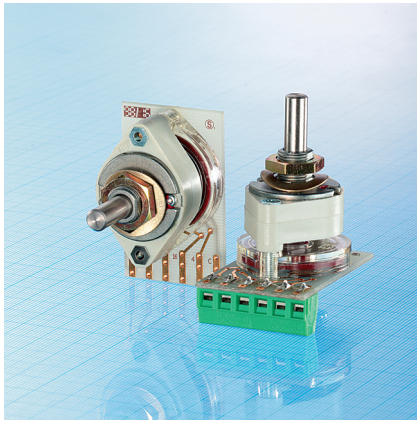


Code Switch CBS



Multi-purpose code switch with 1 to 3 wafers.

- Binary or Gray code also complementary.
- Flexible due to many detent angles: T10 (36°); T12 (30°); T16 (22,5°) T20 (18°); T24 (15°); T32 (11,25°)
- Available with integrated diodes.
- Two-point mounting available.
- Version V with adjustable stops.
- Various types of connection:
 - Standard, combined solder or plug connection, A.
 - Pins for PC board, B.
 - Pins for Mini Wire Wrap, C.
 - Connector for flat-ribbon cable, D.
 - Screw on terminals, E.
 - Double flat-pin connectors, F.
 - Long vertical pins for PC boards, G.

1.0 Construction

1.1 Number of wafers max.	3 wafers
1.2 Switching combinations per wafer	Code 51, BCD · Code 52, BCD-Complement
Design D, detent angle 36°	Code 41, Binary · Code 42, Binary-Complement
Design E, detent angle 30°	Code 75, Gray · Code 77, Gray-Complement
Design H, detent angle 22,5°	Code 41, Binary · Code 42, Binary-Complement
Design N, detent angle 18°	Code 75, Gray · Code 77, Gray-Complement
Design P, detent angle 15°	Code 41, Binary · Code 42, Binary-Complement
Design S, detent angle 11,25°	Code 41, Binary · Code 42, Binary-Complement
1.3 Contacts	Solder and plug connectors (standard)
1.4 Mounting	Central mounting

2.0 Electrical Data

2.1 Switching power max.	3VA/W
2.2 Switching voltage max.	60 V–
2.3 Switching current max.	0,1A
2.4 Rest current max. at ϑ_u 20°C	1A
2.5 Test voltage	500 V
between contacts	
at 50 Hz	700 V
contact / ground	
2.6 Life expectancy without electrical load	$\geq 25\,000$ cycles
2.7 Contact resistance initial value	$< 110\text{ m}\Omega$
2.8 Insulation resistance	$5 \times 10^{10}\Omega$

3.0 Mechanical Data

3.1 Stops	Fixed or without stop
	Stop adjustable: special version V
3.2 Operating torque acc. to design	$\geq 9\text{ Ncm}$
3.3 Stop strength	$\geq 150\text{ Ncm}$
3.4 Fastening torque max.	$\geq 300\text{ Ncm}$
3.5 Dust protection	Sealed wafers

4.0 Other Data

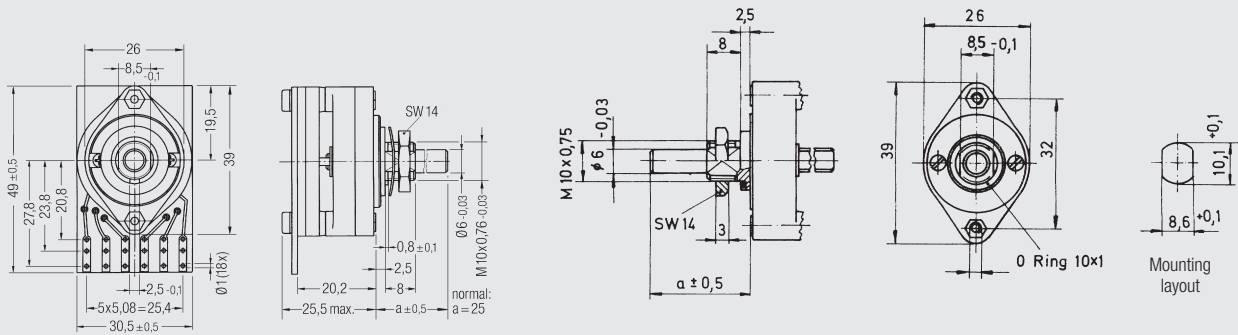
4.1 Contact material	Au over Ni barrier layer
4.2 Insulating material	Epoxide glass laminate, EP
Wafer	
Rotor	Polycarbonate, PC
4.3 Soldering time and temperature max.	5s at 260°C
	3s at 350°C, manual soldering

Ordering Codes

Designation of type	CBS
1. Number of wafers	1
2. Code	41, 42, 51, 52, 76, 77
3. Distribution over 360°	10, 12, 16, 20, 24 or 32
4. Shaft length	in mm
5. Shaft design	A = standard, special versions page 6
6. Switching limit	00 = without stop (switching limit to XX positions)
7. Contact versions	A, B, C, D, E, F, G
8. Stop	V = stop adjustable
13. Watertight	WD

The bold-typed data in the yellow order blocks remain unchanged.
 Normal-typed data match the drawings and can be modified according to your wishes.
 Blanks need to be completed according to the ordering details on the previous page.

Dimensional Drawings · Dimensions in mm

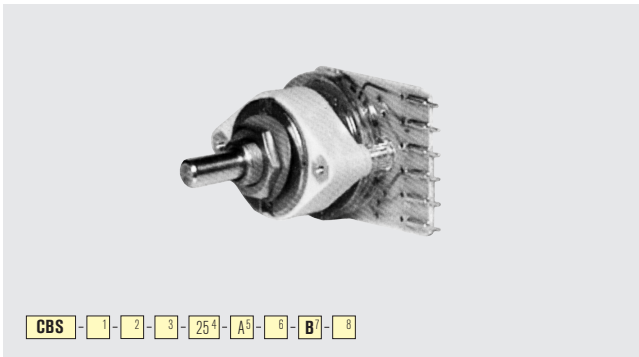


CBS - **1** - **2** - **3** - **25^A** - **A⁵** - **6** - **A⁷** - **8**

CBS - **1** - **2** - **3** - **25^A** - **A⁵** - **6** - **7** - **8** - **WD¹⁰**

CBS-A · Standard

CBS · Watertight version



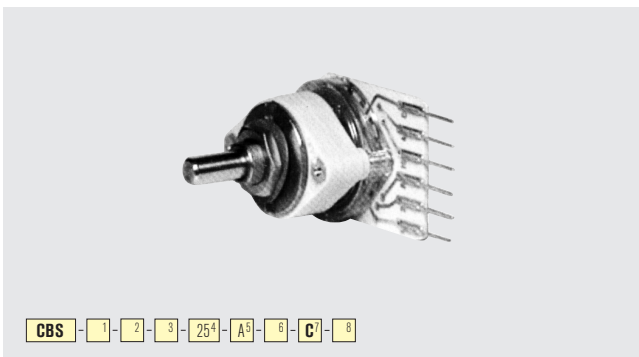
CBS - **1** - **2** - **3** - **25^A** - **A⁵** - **6** - **B⁷** - **8**

CBS-B · Pins for PC board



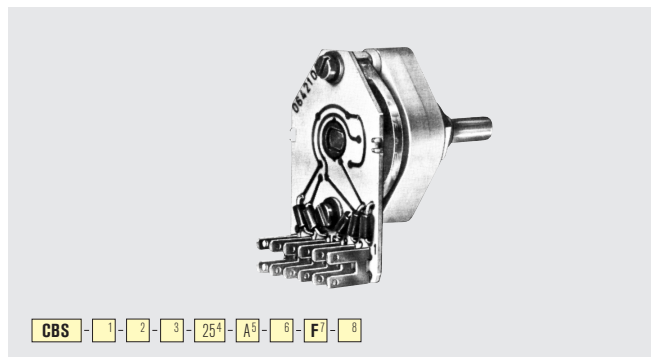
CBS - **1** - **2** - **3** - **25^A** - **A⁵** - **6** - **E⁷** - **8**

CBS-E · Screw-on terminals



CBS - **1** - **2** - **3** - **25^A** - **A⁵** - **6** - **C⁷** - **8**

CBS-C · Pins for Mini Wire Wrap



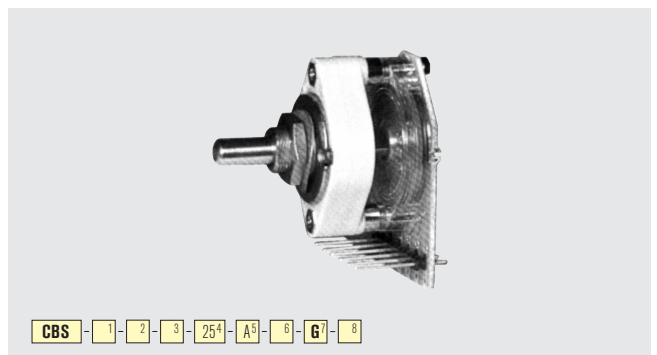
CBS - **1** - **2** - **3** - **25^A** - **A⁵** - **6** - **F⁷** - **8**

CBS-F · Double flat-pin connectors



CBS - **1** - **2** - **3** - **25^A** - **A⁵** - **6** - **D⁷** - **8**

CBS-D · Connector for flat-ribbon cable



CBS - **1** - **2** - **3** - **25^A** - **A⁵** - **6** - **G⁷** - **8**

CBS-G · Long vertical pins for PC boards