

Digital code output type

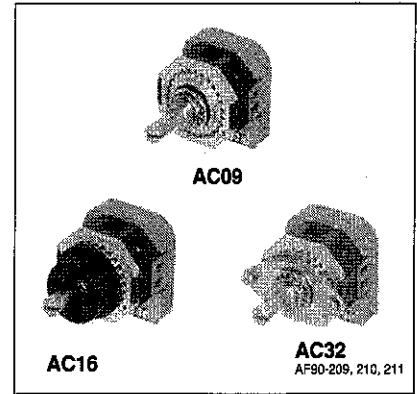
Description

FUJI AC series rotary switches offer a wide choice of output codes. They feature sliding Au-flashed contacts for high contact reliability. Inhibitor and parity check circuits guard against switch malfunctions caused by error signals. With only seven connections to make, these switches are an economical solution to multiposition switching needs.

Features

- Au-flashed contacts for high contact reliability.

- The protection of operator section meets the IP65 (IEC), so these switches can be used in oil-splash environments, such as on machine tool control panels.
- A wide choice of output codes fits a broad range of applications. Available step angles are 15, 30, and 360°/26 (13.85°). Real binary code, complementary binary code, and real gray code are available.
- Switches are available with connectors or with lock rings for easy handling.
- Stopper screw positions are user selectable.



Ratings

Volts	Operational current (A) (resistive load)
50V AC	0.05
5V AC	0.5
25V DC	0.05
5V DC	0.25

Performance

Rated insulation voltage		60V
Operating temperature		-20 to +70°C
Humidity		45 to 85%RH (non condensation)
Service life	Mechanical	50,000 operations
	Electrical	50,000 operations
Dielectric strength	Between terminals	250V AC, 1 minute
	Between terminals and ground	1500V AC, 1 minute
Insulation resistance	Between terminals	500MΩ or more
	Between terminals and ground	5,000MΩ or more
Degree of protection (operator section)		IP65 (IEC)

Type number nomenclature

AC 09 - C Z 0 / 25 L1 E A01 / 0007

Basic type

Mounting

09: M9 nut
16: M16 adapter
32: Adapter
(32mm mounting pitch)

Type of code

R: Real binary code
C: Complementary binary code
G: Real gray code

Angle of step

Angle	Setting position
X: 30°	0 to 11
W: 360°/13 (27.69°)	0 to 12
Y: 15°	0 to 23
Z: 360°/26 (13.85°)	0 to 25

Start position

Available step angle
0 to 11: 30°
0 to 12: 360°/13 (27.69°)
0 to 23: 15°
0 to 25: 360°/26 (13.85°)

End position

Available step angle
0 to 11: 30°
0 to 12: 360°/13 (27.69°)
0 to 23: 15°
0 to 25: 360°/26 (13.85°)

With or without lock ring

Blank: Without lock ring
0007: With lock ring
0009: With adhesive lock ring

With or without connector

Blank: 8-terminal, without connector
A01: 8-terminal, with right-angle connector
A02: 8-terminal, with straight connector
B00: 7-terminal, without connector
B01: 7-terminal, with right-angle connector
B02: 7-terminal, with straight connector

With or without stopper screw

Blank: With stopper screw
E: Without stopper screw

Length of shaft (mm)

	AC09	AC16	AC32
L1:	16	—	14.5
L2:	18	—	16.5
L3:	20	—	18.5
L4:	22	19.5	20.5

Note: When shorter action than the maximum range of switch action is used, stopper screws are used. However, stopper screws are not used if the maximum action range is used when either 15° (symbol Y) or 360°/26 (symbol Z) is specified.