

19mm Key Plastic Selector Switches





Command Non-Illuminated 19mm Kev Plastic Selector Switches Drawing Operator Contacts Protection Part Number Price Operation *Туре Key Removable Position Material Link AF16JR-2AC1A \$26.00 PDF SPDT Key removable left position AF16JR-2AC2A \$28.50 PDF DPDT AF16JR-2BC1A \$26.00 PDF SPDT 2-pos maintained Key removable left and right position AF16JR-2BC2A \$28.50 PDF DPDT AF16JR-2DC1A \$26.00 PDF SPDT Key removable right position AF16JR-2DC2A \$28.50 PDF DPDT AF16JR-0AC1A \$26.00 PDF SPDT 2-pos spring return from right Key removable left position DPDT AF16JR-0AC2A \$28.50 PDF \$28.50 DPDT AF16JR-3AC2A PDF Key removable left position AF16JR-3BC2A \$28.50 PDF Key removable left and right position DPDT Base: AF16JR-3CC2A \$28.50 PDF 22mm Key removable left, right and center position DPDT Plastic round Thin IP65 DPDT AF16JR-3DC2A \$28.50 PDF 3-pos maintained Key removable right position Bezel[.] key AF16JR-3EC2A \$28.50 PDF Key removable center position DPDT Plastic AF16JR-3FC2A \$28.50 PDF Key removable center and right position DPDT AF16JR-3GC2A \$28.50 PDF Key removable left and center position DPDT AF16JR-6DC2A \$28.50 PDF Key removable right position DPDT 3-pos spring return to center AF16JR-6EC2A \$28.50 PDF Key removable center position DPDT from left, maintained right AF16JR-6FC2A \$28.50 PDF Key removable center and right position DPDT AF16JR-7AC2A \$28.50 PDF Key removable left position DPDT 3-pos spring return to center AF16JR-7EC2A \$28.50 PDF Key removable center position DPDT from right, maintained left AF16JR-7GC2A \$28.50 PDF Key removable left and center position DPDT

* Type: Thin - 35.9 mm deep

AF16JR-1EC2A

\$28.50

PDF

Accessory								
Part Number	Price	Drawing Link	Description					
<u>AR6C662-A</u>	\$6.50	PDF	Fuji Electric key, replacement, metal. Package of 2. For use with AF16JR series selector switches with key actuation.					

3-pos spring return to center

from right or left



DPDT

Key removable center position



Fuji Electric Command Non-Illuminated **19mm Key Plastic Selector Switches**

Contact **Operation Table**

No. of	Operator action	Code
positions		
2-position (90°)	Maintained	2
	Spring return	0
	(Right to left) 🖏	
3-position (45°)	Maintained	3
	Spring/manual return	6
	(Left to center)	
	Spring/manual return	7
	(Right to center) ①	
	Spring return	1
	(Left or right to center)	

Key removable	Арр	tion	Code				
position	2	0	3	6	7	1	
Left 🛇	0	\bigcirc	\bigcirc	-	0	-	Α
Left and right \otimes	0	-	0	-	-	-	В
Left, center and right ®	_	-	0	-	-	-	С
Right ⊘	0	-	0	0	-	-	D
Center ①	_	-	0	0	0	0	E
Center and right (2)	_	_	0	0	_	-	F
Left and center ®	_	-	\bigcirc	—	0	—	G

Key position and contact operation

2-position

Operator action (V	Contact	Contact unit		Operator position *3		
2	0	arrangement			1	2
1 2		SPDT	Left	NC		
			Leit			٠
		2PDT	Left	COM < NC		
			Len	NO		٠
Maintained/90°	Spring return/90°		Right	NC		
			right	NO		٠

Terminal arrangement View from the terminal side (the back)



Right contact

3-position

Operator action (V	Contact	Conta	ct unit	Operator position *3					
3	6	7	1	arrangement			1	2	3
2	2	2	2	2PDT		_NC			
					Left		+		٠
Maintained/each	Spring/manual	Spring/manual	Spring return/		Dight				
45°	return/each 45°	return/each 45°	each 45°			NO	•		

Note: *3 •, •••: means the contact closed (ON).

For Fuji Electric Command Series 16mm/19mm Pilot Devices Specifications

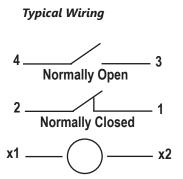
Specifications (Indoor Use)								
	Pushbuttons / Selector Switches / Indicating Lights	Emergency Stop Pushbuttons						
Rated thermal current (contact block)	D300	C300 / R300						
Mechanical durability	Pushbuttons: Momentary 1 million operations Alternate: 250,000 operations Selector Switch: 250,000 operations Indicating Lights: NA	100,000 operations						
Electrical durability	100,000 operations (220 VAC 0.7A)	100,000 operations (AC-15, AC-13, AC-12, DC-13, DC-12)						
Operating frequency	1200 operations/hour	(On-load factor: 40%)						
Operating force (Avg)	Pushbuttons: 10N max Selector switches 0.1 N·m max	Push to lock: 25N max Pull to reset: 20N max Turn to reset: 0.3 N·m max						
Dielectric strength	2000 VAC	c for 1 min						
Insulation resistance	100ΜΩ (500	VDC megger)						
Rated impulse dielectric strength	2.5	ikV						
Conditional short-circuit current	100	00A						
Short-circuit protective device	2A	6A						
Pollution degree	3 (inside the enclosure 2)							
Vibration	Resonance: 10 to 55Hz, double amplitude 0.1 mm	* / Constant: 16.7 Hz, double amplitude 3mm						
Shock	Malfunction: 100 m/s ² Mechanical: 500 m/s ²	Malfunction:150m/s ² Durability: 1000 m/s ²						
Ambient temperature	-10 to +55°C [+14 to +131°F]	(no icing or no condensation)						
Temperature ratings	Storage: -40 to +70)°C [-40 to +158°F]						
Humidity	45 to 85% RH (within -5° to +40°	°C) (no icing or no condensation)						
Degree of protection		65						
Initial contact resistance	50mΩ max 6VD0							
Connections		(22 to 18 AWG) gth: 11 ± 1mm srimp-on disconnect connector						
Mounting tightening torque	0.6 to 1.0 N•m,	5.3 to 8.8 in·lb						
Contacts operation	Self-cleaning types. Slow	action. Positive opening.						
Operation frequency	1,200 cycle/hour (A	oplication ratio 40%)						
Utilization category/contact ratings	120 VAC 1A (AC-13), 24 VDC 0.7 A (DC-13, to 0.95 = 21ms) 240 VAC 0.7 A (AC-13), 125 VDC 0.15 A (DC-13, to 0.95 = 21ms)	_						
Rated insulation voltage	250V /	AC/DC						
Materials	Enclosure: Polyamide	Contacts: silver, nickel						
Standards	Selector: F							
Approvals	cURus File Num	ber E44592, CE						

To obtain the most current agency approval information, see the Agency Compliance & Certifications Checklist section on the specific part number's web page.

1-800-633-0405

For Fuji Electric NEMA Aux Contact Ratings

Control Circuit Contact Electrical Ratings and Wiring



NEMA Mechanical Switching Ratings and Test Values for DC Control Circuit Contacts

Contact Rating Designation	Thermal	Maximum							
	Continuous Test Current (A)	125 Volts	250 Volts	301 to 600 Volts	Volt amperes				
P300	5.0	1.1	0.55		138				
P600	5.0	1.1	0.55	0.20	138				
Q300	2.5	0.55	0.27		69				
Q600	2.5	0.55	0.27	0.10	69				
R300	1.0	0.22	0.11		28				

This chart is provided as a guideline only, and the ratings and values are not guaranteed to be accurate. It is the users' responsibility to properly size their control circuit devices. The chart values are from NEMA Standard ICS 5-2000, Table 1-4-2.

Indicator

NEMA Mechanical Switching Ratings and Test Values for AC Control Circuit Contacts											
	Thermal		Maximum AC Current, 50/60Hz (A)								
-	Continuous Test Current	120	Volts	240 Volts		480 Volts		600 Volts		Volt amperes	
		Make	Break	Make	Break	Make	Break	Make	Break	Make	Break
A300	10	60	6.00	30	3.00					7200	720
A600	10	60	6.00	30	3.00	15	1.50	12	1.20	7200	720
B300	5	30	3.00	15	1.50					3600	360
B600	5	30	3.00	15	1.50	7.5	0.75	6	0.60	3600	360
C600	2.5	15	1.5	7.5	0.75	3.75	0.375	3.00	0.30	1800	180

This chart is provided as a guideline only, and the ratings and values are not guaranteed to be accurate. It is the users' responsibility to properly size their control circuit devices. The chart values are from NEMA Standard ICS 5-2000, Table 1-4-1.

1-800-633-0405

For the latest prices, please check AutomationDirect.com.

For Fuji Electric Command Series Pilot Devices

switches, and buzzers.

Series pilot devices.

Fuji Electric Command Series pilot devices are used in machine tools, industrial machines, control panels, distribution panels, and instrumentation panels. Pushbuttons improve interfacing by allowing better layout and wiring, easier installation and increased safety. Reliability is also built in to handle complex multi-functional controls.

The AR16, AR22 and AR30 series are configurable with a wide range of choices. Our selection of 16mm, 19mm, 22mm and 30mm pushbuttons include non-illuminated as well as

AR16 Series Features

- 16.2 or 19.2 mm diameter hole
- Fits 1 to 6mm max panel thickness
- Integrated structure with built-in contacts that reduce control panel depth
- Offered in Thin-type profile with only 2mm of panel protrusion for high-density mounting and attractive panel designs
- Bright LED-illuminated surface with less power consumption
- Gold-plated contacts and snap-action mechanism with low 1mA at 5V switching
- Oil- and dust-proof operator modules (IP65)

AR22 Series Features

- 22.3 mm diameter hole
- Fits 1 to 6mm max panel thickness
- Mountable in either a 22.3 or 25.5 mm diameter cutout (except for joysticks and buzzers)
- Provided with release arm
- Terminal cover included for added safety
- Wiring possible in vertical and horizontal directions
- Oil- and dust-proof operator modules (IP65), except for buzzers DR22B5 (IP00), DR22B8 (IP54)

AR30 Series Features

illuminated models with flush round heads, extended round

heads, and mushroom style heads. Other 16mm, 22mm

and 30mm pilot devices available include emergency stop

pushbuttons, selector switches, pilot lights, joystick selector

We also offer a wide array of accessories to complement our

selection of Fuji 16mm, 19mm, 22mm and 30mm Command

- 30.5 mm diameter hole
- Fits 1mm to 6mm max panel thickness
- Quick snap-on replacement of contact blocks
- Double-break self-cleaning contacts
- Terminal cover included for added safety
- Wiring possible in vertical and horizontal directions
- Oil- and dust-proof operator modules (IP65) except for buzzer DR30B5 (IP00)



Pushbuttons



E-Stop Pushbuttons



Selector Switches

Pilot Lights



Electronic Buzzers



Joysticks

Command Series Accessories















TO OBTAIN THE MOST CURRENT AGENCY APPROVAL INFORMATION, SEE THE AGENCY COMPLIANCE & CERTIFICATIONS CHECKLIST SECTION ON THE SPECIFIC PART NUMBER'S WEB PAGE.