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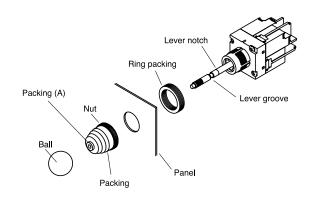
AR22A5N-A0A0B



Command 22mm Joysticks - Screw Terminal								
Part Number	Price	Drawing Link	Handle	Contact Arrangement	Operating Directions			
<u>AR22A5N-A0A0B</u>	\$65.00	<u>PDF</u>	Ball type, momentary		Î			
AR22A0N-A0A0B	\$65.00	<u>PDF</u>	Ball type, maintained	2-position N.O.	↓			
AR22A5N-AAAAB	\$65.00	PDF	Ball type, momentary	A sesting N.O.				
AR22A0N-AAAAB	\$65.00	<u>PDF</u>	Ball type, maintained	4-position N.O.				

Joystick selector switch mounting on panel

- Twist and remove the ball from the operator.
- If no locking nut is provided, loosen the nut and remove the switch after the packing part (A) shown in the illustration is stretched to the lever groove.
- Mount the switch in the order opposite of removal. Set the packing to the notch on the lever as a reference. Do not separate the nut from the packing.
- Use a torque wrench to tighten the nut from the front of the panel. Recommended tightening torque is 1 to 1.5 $N{\cdot}m.$



Fuji Electric Command Series 22mm **Pilot Devices Specifications**

	Specifications (Indoor Use)								
	Pushbuttons Emergency stop pushbuttons Selector switches	Joysticks	Pilot Lights						
Rated thermal current (contact block)	A600 / P600	-	_						
Mechanical durability	See durability table below	250,000 operations	_						
Electrical durability	500,000 operations at 220V AC 6A 1 million operations at 220V AC 3A	100,000 operations at 220V AC 1A (Res. load)	-						
Operating frequency	1200 operations/hour	r (On-load factor: 40%)	_						
Operating force (Avg)	9N – Pushbuttons 30-45 N – Emergency stop pushbuttons 0.15 - 0.1 N⋅m – Selector switches								
Positive opening operation	All functions in	corporating a N.C. contact are positive-openin	ng operation.						
Dielectric strength	2,500VAC, 1 minute (w/o transformer 2000VAC) 2000VAC, 1 minute (Pilot light with transformer: 2500 VAC, 1								
Insulation resistance		100M Ω or more (500VDC megger)							
Rated impulse dielectric strength	6kV	_	6kV						
Conditional short-circuit current	10	00A	_						
Short-circuit protective device	Fuse 15A (recommended, not supplied)	Fuse 1A (recommended, not supplied)	_						
Pollution degree	3								
Vibration	Resonance: 10 to 55Hz, double amplitude 0.1 mm* / Constant: 16.7 Hz, double amplitude 3mm								
Shock	Malfunction durability: 100 m/s ² **	/ Mechanical durability: 500 m/s ²	Mechanical durability: 500 m/s ²						
Ambient temperature (no condensation or no icing)	-20 to +70°C [-4 to +158°F] Illuminated type: -20 to -50°C [-4 to -58°F]	-5 to +60°C [+23 to +140°F]	-2 to +50°C [-4 to +122°F]						
Temperature ratings		Storage: -40 to +80°C [-40 to +176°F]							
Humidity		45 to 85% RH (within -5° to +40°C)							
Degree of protection		IP65							
Initial contact resistance	≤ 50mΩ		-						
Terminal markings	IEC 60445	_	-						
Connections	AWG 18 to AWG 14; Stripping leng	th: 8mm to 11mm / Tightening torque: 0.8	8 to 1.0 N·m, 7.1 in·lb to 8.8 in·lb						
Contacts operation	Self-cleaning types. Slow action. Positive opening.								
Operation frequency	1,200 cycle/hour (Application ratio 40%)	–	_						
Utilization category/contact ratings	AC-15: 24VAC at 6A, 110VAC at 6A DC-13: 24VDC at 4A, 110VDC at 1.3 A	AC-1: 110VAC at 0.3 A DC-13: 24VDC at 0.7 A, 110VDC at 0.15 A	-						
Rated insulation voltage	600V AC/DC***	250V AC/DC	250V AC/DC (w/transformer 600VAC)						
Materials		losure: Polyamide / Contacts: silver, nick							
Standards	UL	- 508, CSA C22.2, No.14, TUV - EN60947-5-1							
Approvals	UL file E44592, CSA file LR20479								

* Emergency stop type: 10 to 500 Hz, double amplitude 0.7mm(acceleration 50m/s²), according to test condition of EN60947-5-5 (1998) ** Emergency stop type: 150 m/s² ***Illuminated type without transformer

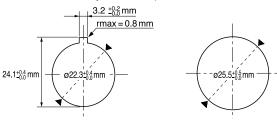
Mechanical Durability							
		Operations					
Pushbutton switch Illuminated pushbutton switch E-stop pushbutton switch E-stop illuminated pushbutton	Momentary action Alternate action Push-lock, turn-reset Push-lock, pull-reset	5 million 1 million 100,000 30,000					
Selector switch	Maintained 1, 2, 3, 4-contact Maintained 5, 6-contact Spring return, spring/manual return	1 million 500,000 200,000					
Illuminated selector switch	Maintained Without transformer 1, 2, 3-contact 4-contact With transformer 1, 2-contact 3-contact Spring return, spring/manual return	1 million 500,000 1 million 500,000 200,000					

Note: Key insertion/removal durability for selector switch key types

• Key type 10,000

22mm Pilot Devices Cutouts

AR22 pilot devices can be mounted in either 22.3 or 25.5 mm diameter holes as shown in the figure below without any extra adapter.

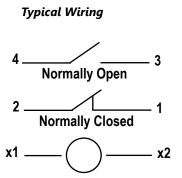


Note: If key washer or legend plate is not used, 3.2 mm-wide location holes do not need to be cut out.

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)							Volt amperes		
	Continuous Test Current	120 Volts 24		240	240 Volts 480		Volts 600		Volts		mperes	
	(A)	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.

Pilot Lights

DR22E3L-E3SZA

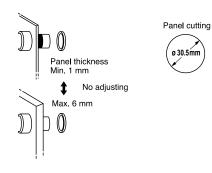
Buzzers

1-800-633-0405 Fuji Electric 22mm Pilot Devices Overview Pushbuttons, Selectors, Pilot Lights, Joysticks, Buzzers

Fuji Electric AR22 pilot devices can be mounted on panels up to 6mm thick by securing the operator with a locking nut from behind the panel without needing any adjustment.

Easy mounting

Fuji AR22 pilot devices can be mounted on panels between 1 and 6mm thick and are mountable in panel cutouts of 22.3 or 25.5 mm. The button and lens can be mounted on a panel while the operator is engaged.



Wiring

These pilot devices can be wired in both vertical and lateral directions making wiring in narrow spaces easier. Contact block color coding makes wiring even easier.

1N.O. Blue, 1N.C. Red Lamp terminal and

transformer unit: black



Short depth

Fuji AR22 pilot devices are designed to occupy less space than traditional 22mm devices.



AR22F0R-01RZA

E-Stop Pushbuttons



AR22V0R-01R

Quick contact block and

transformer replacement

Connecting to the operator

Snap-fitting of contact blocks

Fuji AR22 pilot devices have a snap-on

mounting that makes replacing or adding

a contact block and transformer unit easier.

Detaching

Detaching



Illuminated Pushbuttons

AR22F0L-10E3YZA

Selector Switches



AR22PR-210BZA

Safety

AR22 pilot devices include terminal covers for added safety and security. Emergency stop pushbuttons include a trigger action mechanism that prevents the contacts from moving until the button is pushed and locked.

DR22B8-EB

Protection

AR22 pilot devices feature oil and dust-tight operator construction (IP65), except for buzzers DR22B5 (IP00), DR22B8 (IP54).

