For the latest prices, please check Automation D For the latest prices, please check Automation D For the latest prices, please check Automation D Emergency Stop Pushbuttons





<u>AR22VPR-12R</u>



AR22VQL-01E3R



AR22VQL-12EAR



	Command 22mm Emergency Stop Pushbuttons												
Part Number	Price	Drawing Link	Contacts	Operator	Voltage	Bulb type	Action	Legend	Protection	Material			
<u>AR22VQR-01R</u>	\$28.50	PDF	(1) N.C.	40.0 mm,			Push to lock, pull or turn to reset	Arrow	IP65	Base: Plastic Bezel: Plastic			
<u>AR22VQR-12R</u>	\$36.00	PDF	(1) N.O./(2) N.C.	mushroom, red		_							
AR22VPR-01R	\$36.00	PDF	(1) N.C.	65.0 mm,									
AR22VPR-12R	\$43.50	PDF	(1) N.O./(2) N.C.	mushroom, red									
AR22VQL-01E3R	\$38.00	PDF	(1) N.C.	40.0 mm, mushroom, red		LED							
AR22VQL-12E3R	\$45.50	PDF	(1) N.O./(2) N.C.		24 VAC/VDC	illuminated							
AR22VQL-01EAR	\$45.50	PDF	(1) N.C.			full voltage	Interlocked						
AR22VQL-12EAR	\$53.00	PDF	(1) N.O./(2) N.C.			LED illuminated							







AR22V0R-01R



<u>R-01R</u>

AR22Q2R-01R

AR22V0L-01E3R

	Command 22mm Emergency Stop Pushbuttons											
Part Number	Price	Drawing Link	Contacts	Operator	Voltage	Bulb Type	Action	Legend	Protection	Material		
<u>AR22V0R-01R</u>	\$22.50	PDF	(1) N.C.	40.0 mm, mushroom red 35.0 mm, mushroom, red			Twist-to- release	Arrow	IP65			
<u>AR22V7R-01R</u>	\$30.50	<u>PDF</u>	(1) N.C.		_	_	Key operated release					
<u>AR22Q2R-01R</u>	\$27.00	<u>PDF</u>	(1) N.C.				Push to lock, pull to reset			Base: Plastic Bezel: Plastic		
<u>AR22V0L-01E3R</u>	\$34.00	<u>PDF</u>	(1) N.C.	40.0 mm,	24 VAC/VDC full voltage	LED	Twist-to-					
<u>AR22V0L-01L3R</u>	\$40.00	<u>PDF</u>	(1) N.C.	mushroom, red	115–127 VAC transformer	illuminated	release	Arrow				
Accessory												
<u>AR9P719-5A</u>	\$9.00	<u>PDF</u>	Fuji Electric ove	rsized legend p	late, aluminum, ro "EMERGENO		d, yellow backgro ise with 22mm pi		ived text, legend	plate marking		



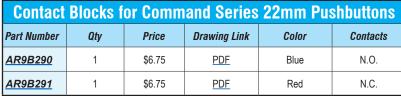
1-800-633-0405 Fuji Electric Accessories for 22mm **Command Series Pilot Devices**



AR9B290



AR9B291



Minimum current requirement AC/DC is 5mA

Terminal Layout



Terminal No.3, 4 \sim

3 -

____ 4

Terminal No.1, 2

AR9B290



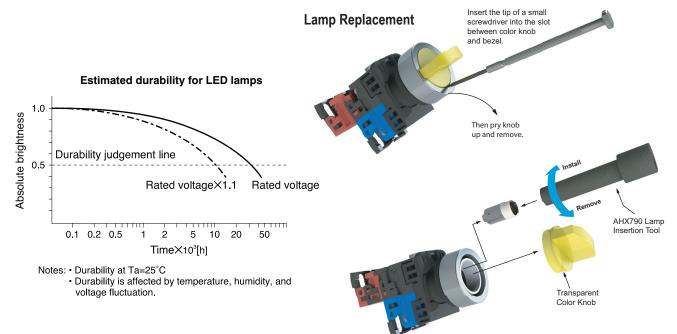
AR9B291

Max 6 contacts for non-illuminated momentary devices. Max 4 for alternate action non-illuminated devices. Max 5 contacts for illuminated momentary devices. Max 3 for alternate action illuminated devices. *Exceeding the maximum number of contacts could affect the mechanical durability of the operators.

	Part Number	Color	
	APX510-24R	Red	
	<u>APX510-24G</u>	Green	
	<u>APX510-24Y</u>	Yellow	
	<u>APX510-24S</u>	Blue	
APX510-24R	<u>APX510-240</u>	Orange	

LED Bulbs for Command Series 22mm Pilot Devices Lamp Current Power Lamp Qtv Price Use With Voltage Consumption Consumption Durability 2 \$17.00 2 \$17.00 AR22 / 12mAAC 2 \$17.00 24V AC/DC **DR22** 0.8 W 30.000h 11mA DC Series 2 \$63.00 2 \$17.00

*Lamp base: Ba9s/13





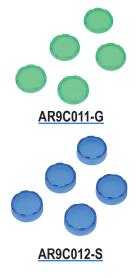
For Fuji Electric Accessories for 22mm **Command Series Pilot Devices**





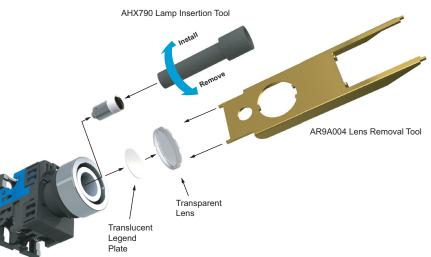
AHX790

Lenses for Command Series 22mm Illuminated Pushbuttons										
Part Number	Color	Qty	Price	Drawing Link	Use With					
<u>AR9C016-R</u>	Red	5	\$5.25	PDF	AR22MOL, AR22M5L					
<u>AR9C021-R</u>	Red	5	\$16.00	PDF	AR22VOR, AR22VOL					
<u>AR9C011-R</u>	Red	5	\$2.50	PDF						
<u>AR9C011-G</u>	Green	5	\$2.50	PDF						
<u>AR9C011-Y</u>	Yellow	5	\$2.50	PDF	AR22FOL AR22F5L					
<u>AR9C011-S</u>	Blue	5	\$2.50	PDF						
<u>AR9C011-C</u>	Clear	5	\$2.50	PDF						
<u>AR9C012-R</u>	Red	5	\$2.50	PDF						
<u>AR9C012-G</u>	Green	5	\$2.50	PDF						
<u>AR9C012-Y</u>	Yellow	5	\$2.50	PDF	AR22EOL					
<u>AR9C012-S</u>	Blue	5	\$2.50	PDF						
<u>AR9C012-C</u>	Clear	5	\$2.50	PDF						



Tools and Lo	ock Nut	for Use w	ith Com	mand Series 22mm Pilot Devices
Part Number	Qty	Price	Drawing Link	Description
<u>AHX790</u>	1	\$3.75	<u>PDF</u>	Bulb removal tool
<u>AHX702</u>	1	\$6.50	N/A	Wrench/lamp removal tool
<u>AR9A004</u>	1	\$5.25	N/A	Wrench
<u>AR9R744</u>	5	\$2.50	PDF	Lock nut





For Fuji Electric Command Series 22mm Emergency Stop Pushbuttons Specifications

22mm Emerge	ency Stop Pushbuttons Specification	ons (Indoor Use)
Series	AR22 - VOR, V7R, Q2R, VOL	AR22 VQR, VPR, VQL
Rated thermal current (contact block)	A600 / P600	B300 / R300
Mechanical durability	See durability table	250,000 operations
Electrical durability	500,000 operations at 220 VAC 6A 1 million operations at 220 VAC 3A	100,000 operations
Operating frequency	1200 operations/hour (On-load factor: 40%)	900 operations/hour (On-load factor: 40%)
Operating force (Avg)	30-45N	Push to Lock: 40N, Pull to reset: 33N Turn to reset: 0.3 N·m
Positive opening operation	All functions incorporating a N.C. co	ntact are positive-opening operation.
Dielectric strength	2,500VAC, 1 minute (w/o transformer 2000VAC)	2000 VAC 1 min
Insulation resistance	100MΩ or more (500VDC megger)
Rated impulse dielectric strength	6kV	2.5 kV
Conditional short-circuit current	100	00A
Short-circuit protective device	Fuse 15A (recommended, not supplied)	Fuse 10A
Pollution degree		3
Vibration	Resonance: 10 to 55Hz, double amplitude 0.1 mm* Constant: 16.7 Hz, double amplitude 3mm	10 to 55Hz, double amplitude 0.7 mm/s ²
Shock	Malfunction durability: 100 m/s² ** Mechanical durability: 500 m/s²	Malfunction:150m/s² Durability: 1000 m/s²
Ambient temperature (no condensation or no icing)	Non-illuminated -20 to +70°C [-4 to +158°F] Illuminated -20 to -50°C [-4 to -58°F]	Non-illuminated -20 to +60°C [-4 to 140°F] Illuminated -20 to +50°C [-4 to 122°F]
Temperature ratings	Storage: -40 to +80)°C [-40 to +176°F]
Humidity	45 to 85% RH (wi	thin -5° to +40°C)
Degree of protection	IP	65
Initial contact resistance	≤ 50	DmΩ
Terminal markings	IEC 6	0445
Connections	AWG 18 to 14; Stripping length: 8mm to 11mm Tightening torque: 0.8 to 1.0 N·m, 7.1 to 8.8 in·lb	Stranded wire: up to 1.25 mm ² , 24 to 16 AWG-CU Solid wire: up to ø1.2 mm, 24 to 16 AWG-CU Tightening torque: 1.0 to 1.5 N·m, 8.8 to 13.2 in·lb
Contacts operation	Self-cleaning types. Slow	action. Positive opening.
Operation frequency	1,200 cycle/hour (Application ratio 40%)	900 operations/hour (On-lard factor: 40 %)
Utilization category/ contact ratings	AC-15: 24VAC at 6A, 110VAC at 6A DC-13: 24VDC at 4A, 110VDC at 1.3 A	DC-13: 24VDC at 1A DC-12 24VDC at 2A B300 120VAC Make 30A Break 3A 240VAC Make 15A Break 1.5 A
Rated insulation voltage	600 VAC/VDC***	250 VAC/VDC
Materials	Enclosure: Polyamide /	Contacts: silver, nickel
Standards	UL 508, CSA C22.2, No.	.14, TUV - EN60947-5-1
Approvals	UL file E44592, 0	

* 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

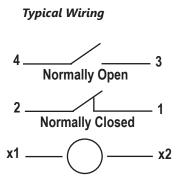
***Illuminated type without transformer

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			Maxi	mum AC Cui	rent, 50/601	Hz (A)			Volt a	nperes
Contact Rating Designation	Continuous Test Current	120	Volts	240	Volts	480	Volts	600 Volts		VUIL ai	претез
	(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

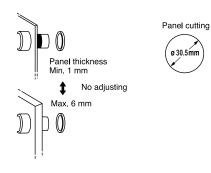
Buzzers

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

DR22B8-EB

Protection

and locked.

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

