F- Fuji Electric Command 22mm Pilot Lights



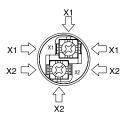




DR22E3L-L3SZA

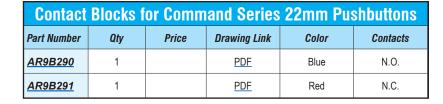
Command 22mm Pilot Lights							
Part Number	Color	Price	Drawing Link	Lens	Lamp Voltage		
DR22E3L-E3RZA	Red		PDF				
DR22E3L-E3GZA	Green		PDF		24V AC/DC without transformer		
DR22E3L-E3YZA	Yellow		PDF				
DR22E3L-E3SZA	Blue		PDF				
DR22E3L-E3WZA	White		PDF	autonded round			
DR22E3L-L3RZA	Red		PDF	extended round	115-127 VAC with transformer		
DR22E3L-L3GZA	Green		PDF				
DR22E3L-L3YZA	Yellow		PDF				
DR22E3L-L3SZA	Blue		PDF				
DR22E3L-L3WZA	White		PDF				

DR22E3L-E3xxx Terminal Layout

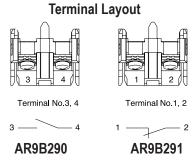


Fruji Electric Accessories for 22mm Command Series Pilot Devices









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.

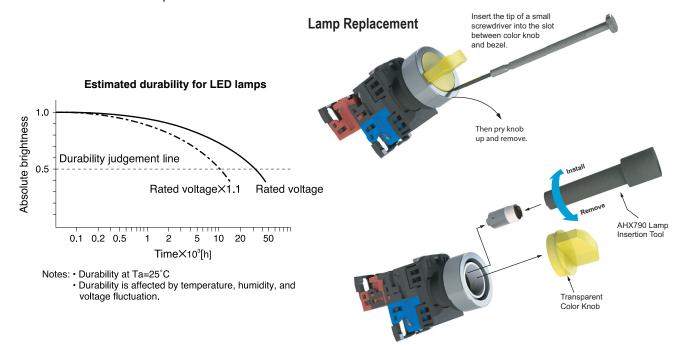
*Exceeding the maximum number of contacts could affect the mechanical durability of the operators.



LED Bulbs for Command Series 22mm Pilot Devices								
Part Number	Color	Qty	Price	Use With	Lamp Voltage	Current Consumption	Power Consumption	Lamp Durability
APX510-24R	Red	2			24V AC/DC	12mA AC 11mA DC	0.8 W	30,000h
APX510-24G	Green	2		AR22 /				
APX510-24Y	Yellow	2		DR22				
APX510-24S	Blue	2		Series				
APX510-240	Orange	2						

APX510-24R

*Lamp base: Ba9s/13





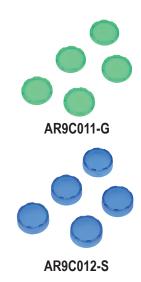
F- Fuji Electric Accessories for 22mm **Command Series Pilot Devices**



AR9C016-R



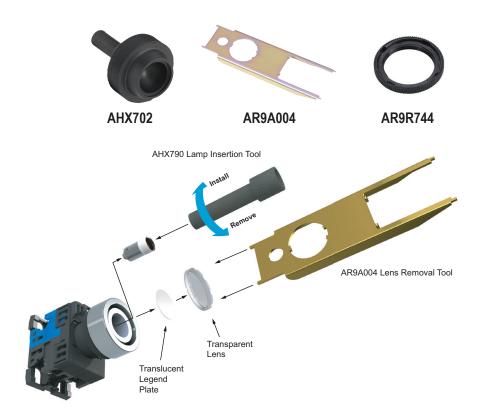
Lenses for Command Series 22mm Illuminated						
Part Number	Color	Qty	hbutton Price	Drawing Link	Use With	
AR9C016-R	Red	5		PDF	AR22MOL, AR22M5L	
AR9C021-R	Red	5		PDF	AR22VOR, AR22VOL	
AR9C011-R	Red	5		PDF		
AR9C011-G	Green	5		PDF		
AR9C011-Y	Yellow	5		PDF	AR22FOL AR22F5L	
AR9C011-S	Blue	5		PDF	7 (() ()	
AR9C011-C	Clear	5		PDF		
AR9C012-R	Red	5		PDF		
AR9C012-G	Green	5		PDF		
AR9C012-Y	Yellow	5		PDF	AR22EOL	
AR9C012-S	Blue	5		PDF		
AR9C012-C	Clear	5		PDF		





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Tools and Lock Nut for Use with Command Series 22mm Pilot Devices						
Part Number	Qty	Price	Drawing LInk	Description		
<u>AHX790</u>	1		PDF	Bulb removal tool		
<u>AHX702</u>	1		N/A	Wrench/lamp removal tool		
AR9A004	1		N/A	Wrench		
AR9R744	5		<u>PDF</u>	Lock nut		



Fruji 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	(On-load factor: 40%)	_				
Operating force (Avg)	9N – Pushbuttons 30-45 N – Emergency stop pushbuttons 0.15 - 0.1 N·m – Selector switches	Less than	100N				
Positive opening operation	All functions in	corporating a N.C. contact are positive-opening	g operation.				
Dielectric strength	2,500VAC, 1 minute (w/o transformer 2000VAC) 2000VAC, 1 minute (Pilot light with transformer: 2500 VAC, 1 minute)						
Insulation resistance	100MΩ or more (500VDC megger)						
Rated impulse dielectric strength	6kV	_	6kV				
Conditional short-circuit current	10	_					
Short-circuit protective device	Fuse 15A (recommended, not supplied)	Fuse 1A (recommended, not supplied)	_				
Pollution degree	3						
Vibration	Resonance: 10 to 55Hz, dou	dz, double amplitude 3mm					
Shock	Malfunction durability: 100 m/s² **	Mechanical durability: 500 m/s ²	Mechanical durability: 500 m/s²				
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	3 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	Enc	losure: Polyamide / Contacts: silver, nicke	el				
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

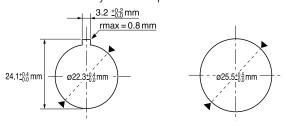
0 7 1 71						
Mechanical Durability						
		Operations				
Pushbutton switch Illuminated pushbutton switch E-stop pushbutton switch E-stop illuminated pushbutton	Momentary action Alternate action Push-lock, turn-reset Push-lock, pull-reset	5 million 1 million 100,000 30,000				
Selector switch	Maintained 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 be be cut out.

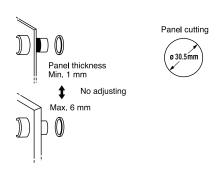
Fuji Electric 22mm Pilot Devices Overview

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.

Pushbuttons



AR22F0R-01RZA

E-Stop Pushbuttons



AR22V0R-01R

Illuminated Pushbuttons



AR22F0L-10E3YZA

Selector Switches



AR22PR-210BZA

Pilot Lights



DR22E3L-E3SZA

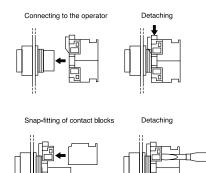
Buzzers



DR22B8-EB

Quick contact block and transformer replacement

Fuji AR22 pilot devices have a snap-on mounting that makes replacing or adding a contact block and transformer unit easier.



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.

Protection

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













