For Fuji Electric Command 30mm Indicating Lights



DR30D0L-E3AZC



DR30E3L-E3SZC

Command 30mm Indicating Lights						
Part Number	Color	Price	Drawing Link	Lens	Lamp Voltage	
DR30D0L-E3AZC	Orange		PDF			
DR30D0L-E3SZC	Blue		PDF			
DR30D0L-E3GZC	Green		PDF		24V AC/DC without transformer	
DR30D0L-E3RZC	Red		PDF			
DR30D0L-E3WZC	White		PDF			
DR30D0L-E3YZC	Yellow		PDF			
DR30D0L-L9AZC	Orange		PDF	dome		
DR30D0L-L9SZC	Blue		PDF			
DR30D0L-L9GZC	Green		PDF		115-127 VAC with transformer	
DR30D0L-L9RZC	Red		PDF			
DR30D0L-L9WZC	White		PDF			
DR30D0L-L9YZC	Yellow		PDF			
DR30E3L-E3GZC	Green		PDF			
DR30E3L-E3RZC	Red		PDF		24V AC/DC without transformer	
DR30E3L-E3WZC	White		<u>PDF</u>			
DR30E3L-E3YZC	Yellow		<u>PDF</u>			
DR30E3L-E3AZC	Orange		<u>PDF</u>			
DR30E3L-E3SZC	Blue		PDF	extended round		
DR30E3L-L3GZC	Green		<u>PDF</u>			
DR30E3L-L3RZC	Red		PDF		115-127 VAC	
DR30E3L-L3WZC	White		<u>PDF</u>			
DR30E3L-L3YZC	Yellow		PDF		with transformer	
DR30E3L-L3AZC	Orange		PDF			
DR30E3L-L3SZC	Blue		PDF			

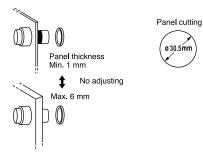
For Fuji Electric 30mm Pilot Devices Overview

Pushbuttons, Selectors, Pilot Lights, Joysticks, Buzzers

Fuji Electric AR30 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 AR30 pilot devices can be mounted on panels between 1 and 6mm thick and are mountable in panel cutouts of 30.5 mm.



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.

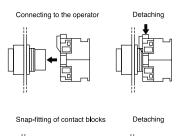
1N.O. Blue, 1N.C. Red

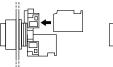


Lamp terminal and transformer unit: black

Quick contact block and transformer replacement

Fuji AR30 pilot devices have a snapon mounting that makes replacing or adding a contact block and transformer unit easier.









Pushbuttons

AR30F0R-01RZC

E-Stop Pushbuttons



AR30Q2R-01RZC

Short depth

Fuji AR30 pilot devices are designed to occupy less space than traditional 30mm devices.

Safety

AR30 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

AR30 pilot devices feature oil and dust-tight operator construction (IP65), except for buzzers DR30B5 (IP00).



Illuminated Pushbuttons

AR30E0L-10L3GZC

Selector Switches



AR30PR-210BZC





DR30D0L-L9SZC

Buzzers



DR30B5-EBZC



For Fuji Electric Accessories for 30mm Command Series Pilot Devices





AHX177-0B

Legend Plates for Command Series 30mm Devices						
Part Number	Price	Drawing Link	Legend	Material	Color	
<u>AHX177-00</u>		<u>PDF</u>	blank	brass	Silver field, silver background	
<u>AHX177-0B</u>		PDF	OFF	brass		
<u>AHX177-0A</u>		PDF	ON	brass	Silver field, silver background, black text	
<u>AHX177-0C</u>		PDF	START	brass		
<u>AHX177-0D</u>		PDF	STOP	brass		
<u>AHX177-2A</u>		PDF	OFF-ON	brass		
<u>AHX720-5A</u>		<u>PDF</u>	EMERGENCY STOP	aluminum	Yellow field, yellow background, black text	



Tools and Lock Nut for Use with Command Series 30mm Pilot Devices						
Part Number	Qty	Price	Description			
<u>AR9A006</u>	1		Mounting wrench, for use with AR22, AR30, DR22, and DR30 series pushbuttons, switches, indicators, and buzzers.			
<u>AR9R055</u>	5		30mm guard ring replacement, for use with AR30G2L series pushbuttons.			
<u>AHX082</u>	5		30mm key washer, for use with AR30 and DR30 series pushbuttons, indicators, and buzzers.			
<u>AHX088</u>	5		30mm lock nut replacement for AR30F0R, DR30D0L, E0L, E0R, and Q7L series.			
<u>AHX093</u>	5		30mm lock nut replacement for AR30M0R, A_N, JR, PL, PR, Q2R, and WR series.			
<u>AHX282</u>	5		30mm sealing/spacing washer replacement, for use with AR30 and DR30 series pushbuttons, switches, indicators, and buzzers.			



AR9R055

AHX082





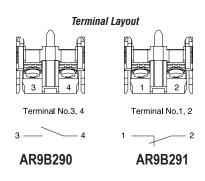
For Fuji Electric Accessories for 30mm Command Series Pilot Devices

Contact Blocks



Contact Blocks for Command Series 30mm Pushbuttons						
Part Number	Qty	Price	Drawing Link	Color	Contacts	
<u>AR9B290</u>	1		PDF	Blue	N.O.	
<u>AR9B291</u>	1		PDF	Red	N.C.	

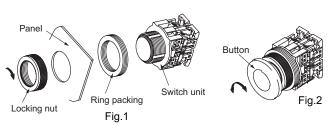




For Fuji Electric Command Series 30mm Pilot Devices Specifications

Assembly information

These pushbuttons are supplied with the appropriate contact blocks, unless otherwise indicated. Use these drawings as a guide to make sure there is adequate clearance behind the panel. Insert the switch unit in the panel hole at the back of the panel and secure it with a locking nut at the panel front.



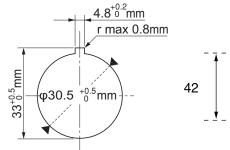
Example mounting diagram for AR30M0R

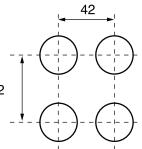
Panel holes

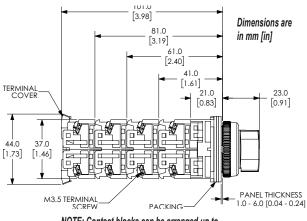
For safe operation, use these mounting hole drawings to ensure that there is adequate space between switches.

Note: Location hole 4.8mm x 33mm is for use with a key washer

or legend plate. If key-washer or legend plate are not used, this location hole is not needed. ADC does not currently carry an appropriate 4.8mm punch if the hole is needed.

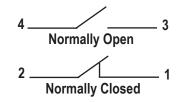






NOTE: Contact blocks can be arranged up to four deep by two wide.

Typical Wiring



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

For Fuji Electric Command Series 30mm Pilot Devices Specifications

Specifications (indoor use)						
	Pushbuttons Emergency stop pushbuttons Joysticks Selector switches		Pilot Lights			
Rated thermal current (contact block)	A600 P600	-	-			
Mechanical durability	See mechanical durability table	250,000 operations	-			
Electrical durability	500,000 operations at 220VAC 6A 1,000,000 operations at 220VAC 3A	100,000 operations at 220VAC 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 the	an 100N			
Positive opening operation	All	functions incorporating an N.C. contact are positive-opening operation.	e			
Dielectric strength	2,000VAC, 1 minute*** 2,500VAC, 1 minute****	2,000VAC	c, 1 minute			
Insulation resistance	100MΩ or more (500VDC megger)					
Rated impulse dielectric strength	6kV	-	6kV			
Conditional short-circuit current	100	AC	-			
Short-circuit protective device	Fuse 15A	-				
Pollution degree	3					
Vibration	Resonance: 10 to 55 Hz, double amplitude 0.1mm*, Constant: 16.7 Hz, double amplitude 3mm					
Shock	Malfunction durat Mechanical dura	Mechanical durability: 500m/s2				
Ambient temperature (no condensation or no icing)	-20 to 70°C (-4 to 158°F)	-5 to 60°C (23 to 140°F)	-20 to 50°C (-4 to 122°F)			
Temperature ratings	Storage: -40 to 80°C (-40 to 176°F) Operating: -20 to 70°C (-4 to 158°F)	Storage: -40 to 80°C (-40 to 176°F)	Storage: -40 to 80°C (-40 to 176°F)			
Humidity		45 to 85% RH (within -5°C to 40°C)				
Degree of protection		IEC IP65				
Initial contact resistance	m 50mΩ -		-			
Terminal markings	IEC 60445	-				
Connections	AWG 18 to AWG 14; Stripping length: 5mm to 11mm Tightening torque: 0.8 to 1.0 N·m, 7.1 in·lb to 8.8 in·lb					
Contacts operation	Self-0	ng.				
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	250V AC/DC*** 600V AC/DC	250V AC/DC	250V AC/DC*** 600VAC w/transformer			
Materials	Enclosure: Polyamide, Contacts: Silver, nickel					
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

**** Illuminated type with transformer

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