

F- Fuji Electric Command Non-Illuminated **30mm Metal and Plastic Pushbuttons**



AR30F0R-10GZC



AR30E0R-10RZC



AR30M0R-10SZC

Com	mand N	on-illun	ninated	30mm Push	buttons	
Part Number	Color	Price	Drawing Link	Operator	Material	Contacts
AR30F0R-10GZC	Green		PDF			N.O.
AR30F0R-10BZC	Black		PDF			N.O.
AR30F0R-10RZC	Red		PDF		_	N.O.
AR30F0R-01RZC	Red		<u>PDF</u>	35mm momentary flush round head		N.C.
AR30F0R-10SZC	Blue		<u>PDF</u>			N.O.
AR30F0R-10WZC	White		PDF			N.O.
AR30F0R-10YZC	Yellow		PDF			N.O.
AR30E0R-10GZC	Green		PDF			N.O.
AR30E0R-10BZC	Black		PDF		Plastic base, metal bezel	N.O.
AR30E0R-10RZC	Red		PDF	35mm momentary extended round head 40mm momentary mushroom round head		N.O.
AR30E0R-01RZC	Red		PDF			N.C.
AR30E0R-10SZC	Blue		PDF			N.O.
AR30E0R-10WZC	White		PDF			N.O.
AR30E0R-10YZC	Yellow		PDF			N.O.
AR30M0R-10GZC	Green		PDF			N.O.
AR30M0R-10BZC	Black		PDF			N.O.
AR30M0R-10RZC	Red		<u>PDF</u>			N.O.
AR30M0R-01RZC	Red		PDF			N.C.
AR30M0R-10SZC	Blue		PDF			N.O.
AR30M0R-10WZC	White		PDF			N.O.
AR30M0R-10YZC	Yellow		PDF			N.O.

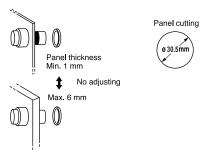
Fuji Electric 30mm Pilot Devices Overview

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.

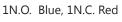
Easy mounting

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.

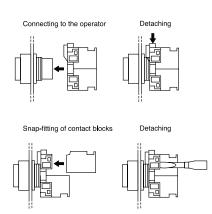


Lamp terminal and transformer unit: black



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

Illuminated Pushbuttons



AR30E0L-10L3GZC

Pilot Lights

DR30D0L-L9SZC

E-Stop Pushbuttons



AR30Q2R-01RZC

Selector Switches



AR30PR-210BZC

Buzzers



DR30B5-EBZC

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).







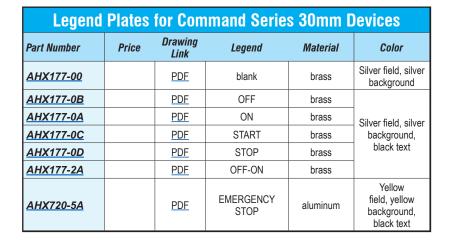






Fruji Electric Accessories for 30mm Command Series Pilot Devices









Tools and Lock Nut for Use with Command Series 30mm Pilot Devices					
Part Number	Qty	Price	Description		
AR9A006	1		Mounting wrench, for use with AR22, AR30, DR22, and DR30 series pushbuttons, switches, indicators, and buzzers.		
AR9R055	5		30mm guard ring replacement, for use with AR30G2L series pushbuttons.		
AHX082	5		30mm key washer, for use with AR30 and DR30 series pushbuttons, indicators, and buzzers.		
AHX088	5		30mm lock nut replacement for AR30F0R, DR30D0L, E0L, E0R, and Q7L series.		
AHX093	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



AHX088



Fruji Electric Accessories for 30mm Command Series Pilot Devices

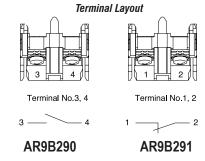
Contact Blocks



AR9B290

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

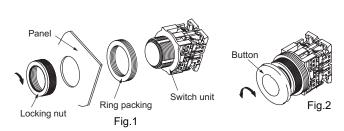




Filot Devices Specifications

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.



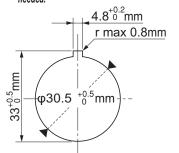
Example mounting diagram for AR30M0R

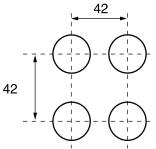
Panel holes

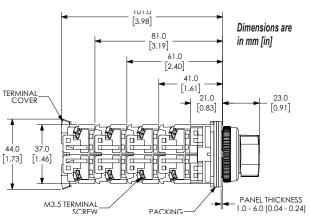
For safe operation, use these mounting hole drawings to ensure that there is adequate space between switches.

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.

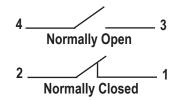






NOTE: Contact blocks can be arranged up to four deep by two wide.

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

Fruji Electric Command Series 30mm 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 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 than 100N				
Positive opening operation	All functions incorporating an N.C. contact are positive-opening operation.				
Dielectric strength	2,000VAC, 1 minute*** 2,500VAC, 1 minute****	, 1 minute			
Insulation resistance	100MΩ or more (500VDC megger)				
Rated impulse dielectric strength	6kV	-	6kV		
Conditional short-circuit current	1000A		-		
Short-circuit protective device	Fuse 15A Fuse 1A		-		
Pollution degree	3				
Vibration	Resonance: 10 to 55 Hz, double amplitude 0.1mm*, Constant: 16.7 Hz, double amplitude 3mm				
Shock	Malfunction durab 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-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	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.