For the latest prices, please check AutomationDirect.com.

1-800-633-0405

For Fuji Electric Command 30mm Buzzers



DR30B5-EBZC



DR30B5-HBZC

	Command 30mm Buzzers									
Part Number	Qty	Price	Drawing Link	Sound Type	Sound Level	LED Indicator	Operating Voltage			
DR30B5-EBZC	1	\$57.00	PDF	Intermittent/continuous	90dB @ 0.1 m 70dB @ 1m	Red	12-24V AC/DC			
DR30B5-HBZC	1	\$57.00	PDF	electronic sound		Red	100-110VAC			

Specifications							
DR30B5-xBZC							
Rated insulation voltage	Without transformer: 60V AC/DC With transformer: 250VAC						
Durability	1000h						
Frequency	2.4 to 3.3 kHz						
Intermittent cycle	Approx. 170-cycle/min						
Dielectric strength	Without transformer: 1000VAC 1 minute With transformer: 2000VAC 1 minute						
Insulation resistance	100M Ω or more (500VDC megger)						
Pollution degree	3						
Vibration	Resonance: 10 to 55Hz, double amplitude 0.1 mm Constant: 16.7 Hz, double amplitude 3.0 mm						
Shock	Mechanical durability: 500 m/s ²						
Ambient temperature	-20 to +60°C [-4 to +140°F] no condensation or no icing						
Storage temperature	-30 to +70°C [-22 to +158°F]						
Humidity	45 to 85% RH (within -5 to 40°C [23 to 104°F])						
Degree of protection	IP00						

Current Consumption						
24V AC/DC	40mA AC, 25mA DC					
110VAC	30mA AC					

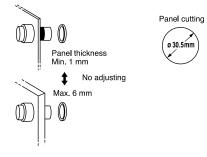
1-800-633-0405 Fuji Electric 30mm Pilot Devices Overview

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



Pushbuttons



AR30F0R-01RZC

E-Stop Pushbuttons

AR30Q2R-01RZC

Short depth



Illuminated Pushbuttons

AR30E0L-10L3GZC

Selector Switches

AR30PR-210BZC

Pilot Lights



DR30D0L-L9SZC

Buzzers



DR30B5-EBZC

Wiring

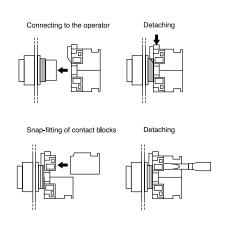
These pilot devices can be wired in both vertical and lateral directions making wiring in narrow spaces easier. Contact block color coding makes wiring even easier.

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

Lamp terminal and transformer unit: black \otimes

Quick contact block and transformer replacement

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



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

Fuji AR30 pilot devices are designed to occupy less

space than traditional 30mm devices.

Protection

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



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 Fuji Electric Accessories for 30mm Command Series Pilot Devices



AHX177-00



<u>AHX177-0B</u>

Legend Plates for Command Series 30mm Devices									
Part Number	Price	Drawing Link	Legend	Material	Color				
<u>AHX177-00</u>	\$2.50	<u>PDF</u>	Blank		Silver field, silver background				
<u>AHX177-0B</u>	\$2.50	PDF	OFF						
<u>AHX177-0A</u>	\$2.50	PDF	ON	Brass	Silver field, silver				
<u>AHX177-0C</u>	\$2.50	PDF	START		background,				
<u>AHX177-0D</u>	\$2.50	PDF	STOP		black text				
<u>AHX177-2A</u>	\$2.50	PDF	OFF-ON						
<u>AHX720-5A</u>	\$9.50	<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	Price	Description						
<u>AR9A006</u>	\$34.00	Fuji Electric mounting wrench. For use with AR22, AR30, DR22 and DR30 series pushbuttons, switches, indicators and buzzers.						
<u>AR9R055</u>	\$18.00	Fuji Electric guard ring, replacement, 30mm, metal. Package of 5. For use with AR30G2L series pushbuttons.						
<u>AHX082</u>	\$1.00	Fuji Electric key washer, replacement, 30mm, metal. Package of 5. For use with AR30 and DR30 series pushbuttons, switches, indicators and buzzers.						
<u>AHX088</u>	\$5.75	Fuji Electric lock nut, replacement, 30mm, metal. Package of 5. For use with AR30F0R, DR30D0L, E0L, E0R and Q7L series pushbuttons, switches and indicators.						
<u>AHX093</u>	\$5.75	Fuji Electric lock nut, replacement, 30mm, metal. Package of 5. For use with AR30M0R, A_N, JR, PL, PR, Q2R and WR series pushbuttons, switches and indicators.						
<u>AHX282</u>	\$1.00	Fuji Electric sealing/spacer washer, replacement, 30mm. Package of 5. For use with AR30 and DR30 series pushbuttons, switches, indicators and buzzers.						



AR9R055

AHX082





1-800-633-0405 Fuji Electric Accessories for 30mm **Command Series Pilot Devices**

Contact Blocks



AR9B290



AR9B291

Contact Blocks for Command Series 30mm Pushbuttons								
Part Number	Qty	Price	Drawing Link	Color	Contacts			
<u>AR9B290</u>	1	\$6.75	PDF	Blue	N.O.			
<u>AR9B291</u>	1	\$6.75	PDF	Red	N.C.			

Minimum current requirement AC/DC is 5mA

Terminal Layout





3 _____ 4

AR9B290

Terminal No.3, 4

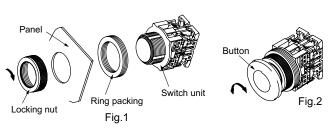


Max 6 contacts for non-illuminated momentary devices. Max 4 for alternate action non-illuminated devices. Max 5 contacts for illuminated momentary devices. Max 3 for alternate action illuminated devices. *Exceeding the maximum number of contacts could affect the mechanical durability of the operators.

1-800-633-0405 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.



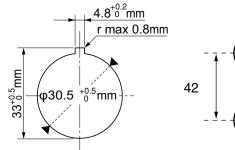
Example mounting diagram for AR30M0R

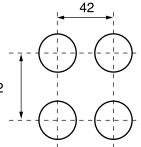
Panel Holes

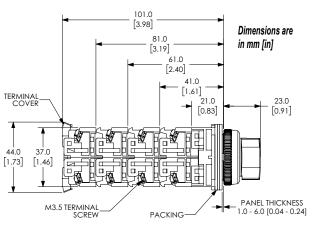
For safe operation, use these mounting hole drawings to ensure that there is adequate space between switches.

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.

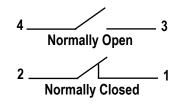






NOTE: Contact blocks can be arranged up to four deep by two wide.

Typical Wiring



Mechanical Durability								
		Operations						
Pushbutton switch Illuminated pushbutton switch E-stop pushbutton switch E-stop illuminated pushbutton	hbutton switch Alternate action tton switch Push-lock, turn-reset							
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						

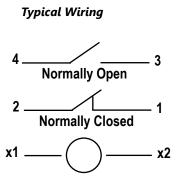
Note: Key insertion/removal durability for selector switch key types

Key type 10,000

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

	Thermal	Maximum						
Contact Rating Designation	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)									
Contact Rating Continuous Designation Test Current		120 Volts		240	240 Volts		480 Volts		600 Volts		Volt amperes	
Doorgnation	(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.

1-800-633-0405

For Fuji Electric Command Series 30mm Pilot Devices Specifications

	Specifications (Inc	door Use)					
	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 0.15 - 0.1 N·m – Selector switches	Less that	n 100N				
Positive opening operation	All	functions incorporating an N.C. contact a positive-opening operation.	re				
Dielectric strength	2,000VAC, 1 minute*** 2,500VAC, 1 minute****	2,000VAC.	, 1 minute				
Insulation resistance		100M Ω or more (500VDC megger)					
Rated impulse dielectric strength	6kV	6kV -					
Conditional short-circuit current	100	1000A					
Short-circuit protective device	Fuse 15A	Fuse 15A Fuse 1A					
Pollution degree		3					
Vibration	Resonance: 10 to 55 Hz, do	ouble amplitude 0.1mm*, Constant: 16.7 I	Hz, double amplitude 3mm				
Shock		Malfunction: 100m/s ^{2**} Mechanical: 500m/s ²					
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]					
Humidity		45 to 85% RH [within -5°C to 40°C]					
Degree of protection		IEC IP65					
Initial contact resistance	≥ 50mΩ	_	_				
Terminal markings	IEC 60445	_	_				
Connections		4 to 18 AWG; Stripping length: 5 to 11mm tening torque: 0.8 to 1.0 N⋅m, 7.1 to 8.8 i					
Contacts operation	Self-c	leaning types. Slow action. Positive oper	ning.				
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						
Rated insulation voltage	250V AC/DC*** 600V AC/DC	250V AC/DC	250V AC/DC*** 600VAC w/transformer				
Materials	End	closure: Polyamide, Contacts: Silver, nick	el				
Standards	UL 5	08, 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 Compliance & Certifications Checklist section on the specific part number's web page.