



Command Illuminated 30mm Metal and Plastic Pushbuttons



AR30Q7L-11E3RZC



AR30E0L-10E3AZC



AR30G2L-10L3GZC



AR30G2L-01E3RZC

Command LED Illuminated 30mm Pushbuttons								
Part Number	Color	Price	Drawing Link	Operator	Material	Lamp Voltage	Contacts*	
AR30Q7L-11E3RZC	Red	\$97.00	PDF	35mm push-pull/ momentary mushroom round head	Base: Plastic Bezel: Metal	24V AC/DC (without transformer)	1 N.O. + 1 N.C.	
AR30Q7L-11E3GZC	Green	\$97.00	PDF			1 N.O. + 1 N.C.		
AR30Q7L-11L3RZC	Red	\$118.00	PDF			115-127 VAC (with transformer)	1 N.O. + 1 N.C.	
AR30Q7L-11L3GZC	Green	\$118.00	PDF			1 N.O. + 1 N.C.		
AR30E0L-10E3RZC	Red	\$27.00	PDF	35mm momentary extended round head		24V AC/DC (without transformer)	N.O.	
AR30E0L-01E3RZC	Red	\$27.00	PDF				N.C.	
AR30E0L-10E3GZC	Green	\$27.00	PDF				N.O.	
AR30E0L-10E3AZC	Orange	\$27.00	PDF				N.O.	
AR30E0L-10E3WZC	White	\$27.00	PDF				N.O.	
AR30E0L-10E3YZC	Yellow	\$27.00	PDF				N.O.	
AR30E0L-10E3SZC	Blue	\$38.50	PDF				N.O.	
AR30E0L-10L3RZC	Red	\$39.50	PDF			115-127 VAC (with transformer)	N.O.	
AR30E0L-01L3RZC	Red	\$39.50	PDF				N.C.	
AR30E0L-10L3GZC	Green	\$39.50	PDF				N.O.	
AR30E0L-10L3AZC	Orange	\$39.50	PDF				N.O.	
AR30E0L-10L3WZC	White	\$39.50	PDF				N.O.	
AR30E0L-10L3YZC	Yellow	\$39.50	PDF				N.O.	
AR30E0L-10L3SZC	Blue	\$49.00	PDF				N.O.	
AR30G2L-10E3RZC	Red	\$42.50	PDF			35mm momentary extended with full guard, round head	24V AC/DC (without transformer)	N.O.
AR30G2L-01E3RZC	Red	\$42.50	PDF					N.C.
AR30G2L-10E3GZC	Green	\$42.50	PDF					N.O.
AR30G2L-10E3AZC	Orange	\$42.50	PDF					N.O.
AR30G2L-10E3WZC	White	\$42.50	PDF	N.O.				
AR30G2L-10E3YZC	Yellow	\$42.50	PDF	N.O.				
AR30G2L-10E3SZC	Blue	\$85.00	PDF	N.O.				
AR30G2L-10L3RZC	Red	\$55.00	PDF	115-127 VAC (with transformer)			N.O.	
AR30G2L-01L3RZC	Red	\$55.00	PDF				N.C.	
AR30G2L-10L3GZC	Green	\$55.00	PDF				N.O.	
AR30G2L-10L3AZC	Orange	\$55.00	PDF		N.O.			
AR30G2L-10L3WZC	White	\$55.00	PDF		N.O.			
AR30G2L-10L3YZC	Yellow	\$55.00	PDF		N.O.			
AR30G2L-10L3SZC	Blue	\$77.00	PDF		N.O.			

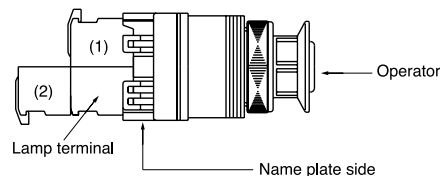
* AR30Q7L series pushbuttons include 2 N.C. contacts. When assembled, one of the N.C. contacts are held open, becoming an N.O. contact.

AR30Q7L Contact Operation

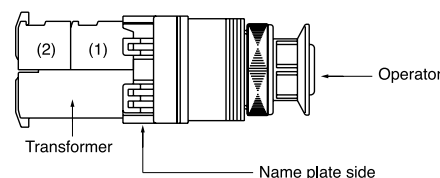
Contact Block Mounting Position		Button Position		
No.	Type	Pull	Free	Push
(1)	N.C.	X	O	O
(2)	N.C.	X	X	O

O = Contact Open, X = Contact Closed

AR30Q7L Contact Position without Transformer



AR30Q7L Contact Position with Transformer





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Accessories for 30mm Command Series Pilot Devices

**AHX177-00****AHX177-0B**

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	Brass	Silver field, silver background
<u>AHX177-0B</u>	\$2.50	<u>PDF</u>	OFF		Silver field, silver background, black text
<u>AHX177-0A</u>	\$2.50	<u>PDF</u>	ON		
<u>AHX177-0C</u>	\$2.50	<u>PDF</u>	START		
<u>AHX177-0D</u>	\$2.50	<u>PDF</u>	STOP		
<u>AHX177-2A</u>	\$2.50	<u>PDF</u>	OFF-ON		
<u>AHX720-5A</u>	\$9.50	<u>PDF</u>	EMERGENCY STOP	Aluminum	Yellow field, yellow background, black text

**AHX720-5A**

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****AHX088****AHX282**



Accessories for 30mm Command Series Pilot Devices

Contact Blocks



AR9B290



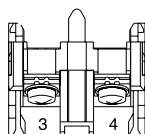
AR9B291

Contact Blocks for Command Series 30mm Pushbuttons

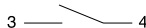
Part Number	Qty	Price	Drawing Link	Color	Contacts
AR9B290	1	\$6.75	PDF	Blue	N.O.
AR9B291	1	\$6.75	PDF	Red	N.C.

Minimum current requirement AC/DC is 5mA

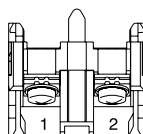
Terminal Layout



Terminal No.3, 4



AR9B290



Terminal No.1, 2



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.



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Command Series 30mm Pilot Devices Specifications

Specifications (Indoor 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 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****	2,000VAC, 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: 100m/s²** Mechanical: 500m/s²		Mechanical: 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]		
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	14 to 18 AWG; Stripping length: 5 to 11mm Tightening torque: 0.8 to 1.0 N·m, 7.1 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 Compliance & Certifications Checklist section on the specific part number's web page.



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Command 30mm Emergency Stop Pushbuttons Specifications

30mm Emergency Stop Pushbuttons Specifications (Indoor Use)		
	AR30 Q2R, V0L, V0R	AR30 VPR, VPL
Rated thermal current (contact block)	A600 P600	B300 R300
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 AC12, DC13, DC12
Operating frequency	1200 operations/hour (on-load factor: 40%)	900 operations/hour (on-load factor: 40%)
Operating force (Avg)	30-45 N	Push to Lock: 40N Turn to reset: 0.5 N·m
Positive opening operation	All functions incorporating an N.C. contact are positive-opening operation.	
Dielectric strength	2,000VAC, 1 minute*** 2,500VAC, 1 minute****	2,000 VAC, 1 minute
Insulation resistance	100MΩ or more (500VDC megger)	
Rated impulse dielectric strength	6kV	2.5 kV
Conditional short-circuit current	1000A	
Short-circuit protective device	Fuse 15A	Fuse 10A
Pollution degree	3	
Vibration	Resonance: 10 to 55 Hz, double amplitude 0.1mm*, Constant: 16.7 Hz, double amplitude 3mm	Malfunction: max double amplitude: 0.7 mm (max: 50 m/s ²), frequency: 10 to 500 Hz Durability: max double amplitude: 0.7 mm (max: 50 m/s ²), frequency: 10 to 500 Hz*
Shock	Malfunction: 100m/s ² Mechanical: 500m/s ²	Malfunction: 150m/s ² Durability: 1000 m/s ² **
Ambient temperature (no condensation or no icing)	-20 to 70°C [-4 to 158°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 [within -5°C to 40°C]	
Degree of protection	IEC IP65	
Initial contact resistance	≥ 50mΩ	1000mΩ
Terminal markings	IEC 60445	
Connections	14 to 18 AWG; Stripping length: 5 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 ² , 24 to 16 AWG-CU Tightening torque: 1.5 to 2.5 N·m, 13.27 to 22.1 in·lb
Contacts operation	Self-cleaning types. Slow action. Positive opening.	
Operation frequency	1,200 cycle/hour (Application ratio 40%)	900 operations/hour (On-load 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
Rated insulation voltage	250 VAC/VDC*** 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, CSA file LR20479	cUL Listed, CE, UL Category Emergency Stop Device

* Emergency stop type: 10 to 500 Hz, double amplitude 0.7mm (acceleration 50m/s²), according to test condition of EN60947-5-5 (1998)

** Except when the switch is mounted upside down

*** Illuminated type without transformer

**** Illuminated type with transformer

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

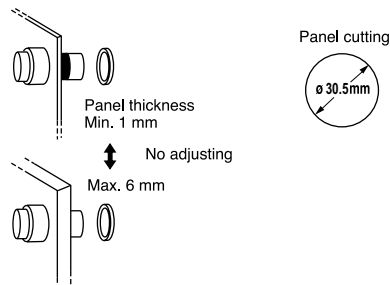
Fuji Electric 30mm Pilot Devices Overview

Pushbuttons, Selectors, Pilot Lights, Joysticks, Buzzer

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

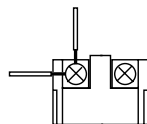
Fuji Electric AR30 pilot devices can be mounted on panels between 1 and 6mm thick and are mountable in panel cutouts of 30.5 mm.



Wiring

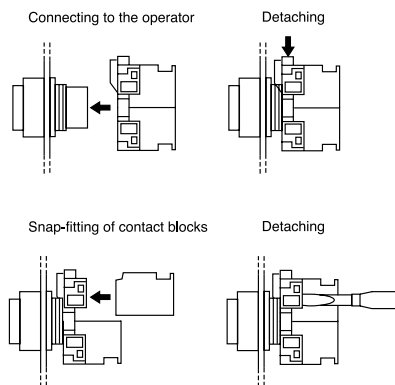
These pilot devices can be wired in both vertical and lateral directions making wiring in narrow spaces easier. Contact block color coding makes wiring even easier.

1N.O. Blue, 1N.C. Red
Lamp terminal and
transformer unit: black



Quick contact block and transformer replacement

Fuji AR30 pilot devices have a snap-on 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).



TO OBTAIN THE MOST CURRENT AGENCY APPROVAL INFORMATION, SEE THE AGENCY COMPLIANCE & CERTIFICATIONS CHECKLIST SECTION ON THE SPECIFIC PART NUMBER'S WEB PAGE.