F- Fuji Electric Command 22mm Buzzers





DR22B5-HB

Command 22mm Buzzers							
Part Number	Qty	Price	Drawing Link	Sound Type	Sound Level	LED Indicator	Operating Voltage
DR22B8-EB	1		PDF	Intermittent/continuous electronic sound 80dB @ 0.1 m 60dB @ 1m	80dB @ 0.1 m	-	12-24V AC/DC
DR22B8-HB	1		PDF				100-110VAC
DR22B5-EB	1		PDF	Intermittent/continuous electronic sound	90dB @ 0.1 m 70dB @ 1m	Red	12-24V AC/DC
DR22B5-HB	1		PDF				100-110VAC

Specifications				
	DR22B5	DR22B8		
Rated insulation voltage	Without transformer: 60V AC/DC With transformer: 250VAC			
Durability 1000h				
Frequency	2.4 to 3.3 kHz			
Intermittent cycle	Approx. 1	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 du	rability: 500 m/s²		
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	IP54		

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

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/hou	(On-load factor: 40%)	_		
Operating force (Avg)	9N – Pushbuttons 30-45 N – Emergency stop pushbuttons 0.15 - 0.1 N·m – Selector switches		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, 1minute)			
Insulation resistance	100MΩ or more (500VDC megger)				
Rated impulse dielectric strength	6kV –		6kV		
Conditional short-circuit current	1000A		_		
Short-circuit protective device	Fuse 15A (recommended, not supplied)	Fuse 1A (recommended, not supplied)	_		
Pollution degree	3				
Vibration	,	ble amplitude 0.1 mm* / Constant: 16.7 h	Hz, double amplitude 3mm		
Shock	Malfunction durability: 100 m/s ² **	/ Mechanical durability: 500 m/s²	Mechanical durability: 500 m/s ²		
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				
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 length: 8mm to 11mm / Tightening torque: 0.8 to 1.0 N·m, 7.1 in				
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	Enclosure: Polyamide / Contacts: silver, nickel		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

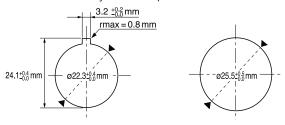
<u> </u>					
Mechanical Durability					
		Operations			
Pushbutton switch Illuminated pushbutton switch E-stop pushbutton switch E-stop illuminated pushbutton	Momentary action Alternate action Push-lock, turn-reset Push-lock, pull-reset	5 million 1 million 100,000 30,000			
Selector switch	Maintained 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.

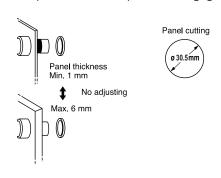
Fuji Electric 22mm Pilot Devices Overview

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.

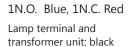
Easy mounting

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.



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

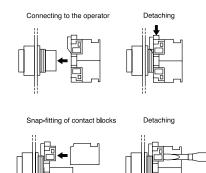
Buzzers



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).













