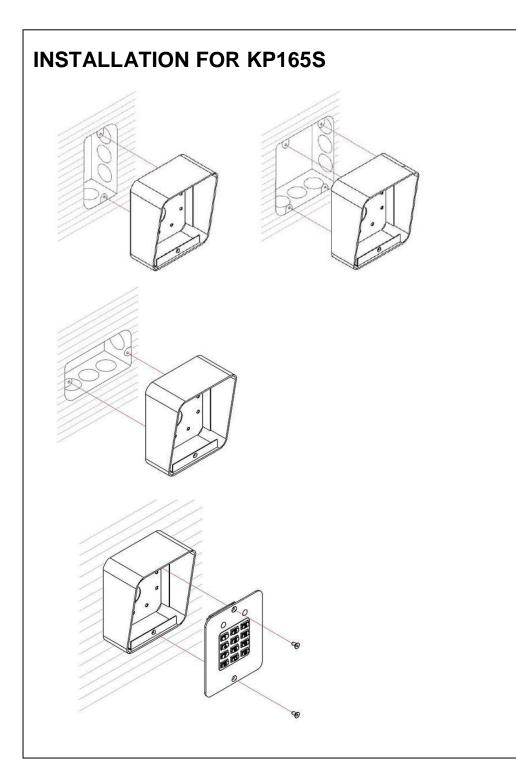
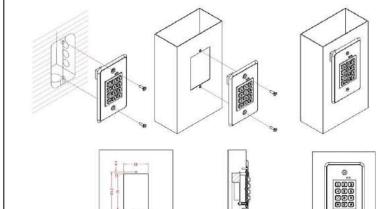


USER MENU KP165M KP165S

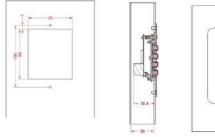
- Information about the product
- Notes on these operating instructions
- Operating instructions
- Installation for the product

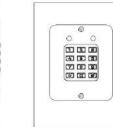


INSTALLATION FOR KP165

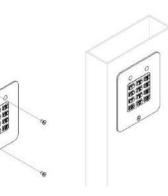


INSTALLATION FOR KP165M





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The KP165S Series is a digital, code-operated keypad for access control or for remote-control applications. Operating on 12/24VDC, the KP165S Series purpose is to keep unauthorized people off restricted premises, while permitting authorized people to enter. When any one of the correct codes is identified by the keypad, it energizes a relay which unlocks a door or performs any desired switching functions.

SPECIFICATIONS

Model No	KP165	KP165S	KP165M							
Surface Mounted	Surface mounted	Surface mounted	Flush mounted							
Dimensiona (mm)	120H x 76W x	125H x 105W x	120H x 100W x							
Dimensions (mm)	34.9D	60D	37.4D							
Input Voltage	12V~24VDV									
Operating Current	30 mA typical, 150 mA maximum									
	★Relay #1, SPDT, 5 Amps @ 28VDC maximum									
Quitauta	★Relay #2, SPDT, 1 Amp @ 28VDC maximum									
Outputs	\star Output #3 and #4, solid state open collectors, short to									
	common 100 mA @24VDC maximum									
Contact rating	2A 30VAC/VDC									
Humidity	5% to 95%, non-condensing									
Operating	-25 ℃~55℃									
Temperature	-23 (~33 (

Features	Operating Features
Keypad programmable	 System reset
480 user codes	• Entry code length, 1 to 6 digits
1 to 6 digit user codes	 Adding a new PIN
4 independent outputs	• Erasing a single PIN
4 independent timers	 Erasing all PINs
2 Form C relay contacts	• Changing the master programming
2 solid state open collector	code
outputs	• On-time for each of the four
Program entry codes to activate	outputs
one or two relays	 Beep sounds on key presses
Disable input	• Beep sound during each of the
Door sense input	four outputs activation time
Request-to-exit/enter input	 Keypad lockout after specified
Keypad tamper lockout	number of incorrect PIN attempts,
Timed anti-passback	from 2 to 7
(Prevents using same code again	• Anti-passback time period from 1
before the programmed time	to 4 minutes or no anti-passback
elapses)	protection
Anti-tailgate	Anti-tailgate
Two LED status indicators	 Alarm shunt output
(Green/Red and Yellow)	 Forced entry output
Tactile key feel	 Door ajar output
Audible code entry verification	 Door sense/inhibit input
12 or 24V, DC operation	 Keypad lockout output
	 Keypad active output

NO Programm Programming Cod -ing Mode Press Code									9	Default	Instruction
	Keypad	Press									
24			51 # Attempts (2 - 7) # Seconds (1 - 60) # Attempts=Number of attempts before lockout (2-7) © Seconds=(1-60)	3 , 60	 Press: 51# Attempts # Seconds # Sets the number or incorrect entry code attempts allowed before the keypad "locks ou 						
	Select Door		52	#	# INPUT (0,1) # Input=0 for Door Sense Input=1 for Inhibit						 Press: 52# Input The input (graywire) can be programmed for DOOR SENSE o INHIBIT.
25	Sense or Inhibit Input		oco rec cor AJ on wit	curs jue ndit AR the h a	s before a st-to-enter ion remair output wil output will n entry co	r in ns I o pr de	ess is gran put) a FOI 60 second ccur. Whe event Rela . This mod	te RC s a n p iy le	SENSE, if an open of d (with an entry cod ED ENTRY output t after a relay activatio programmed for INH #1 from activating w is typically used with rtain times.	e or with th will occur. I on for acce IIBIT, a clo rhen acces	e f an open ss, a DOOR sed condition s is requested
26	Anti-Pass Back Time		53	#	Minutes (1 - 4)	#	Minutes= 0=No Ant	Гir i-р	ne in minutes (1-4) assback	0	 Press: 53 # Minutes # Sets the length of time an entry code will not function after it is used.
27	Keypad light		54	#	INPUT (0 - 2)	#	0 = alway 1 = norma 2 = alway	al		1	●Press: 54 # INPUT # ●INPUT= (0 - 2)

			KP				sic Programmin	g		
NO	Programm -ing Mode	Press		Ρ	rogramming		Code de	Defau It	Instruction	
16	Auxiliary Relay On-time	1633	32	#	Seconds (0 - 60)		Seconds=Output time in seconds (0-60)	5	 Press: 32# Seconds # Sets the length of time the Auxiliary Relay activates when triggered. 	
17	Solid-state Output #3 On-time		33	#	Seconds (0 - 60)	#	Seconds=Output time in seconds (0-60)	5	 Press: 33# Seconds # Sets the length of time Output #3 activates when triggered. 	
18	Solid-state Output #4 On-time		34	#	Seconds (0 - 60)	#	Seconds=Output time in seconds (0-60)	5	 Press: 34# Seconds # Sets the length of time Output #4 activates when triggered. 	
19	Beep Sounds on Keystrokes		40	#	Sound (0 , 1)	#	Sound=1 for Yes Sound=0 for No	1	 Press: 40# Sound # Selects whether or not the keypad beeps as each key is pressed. 	
20	Beep Sounds During Main Relay		41	#	Sound (0 , 1)	#	Sound=1 for Yes Sound=0 for No	0	 Press: 41# Sound # Selects whether or not the keypad beeps during Main Relay activation. 	
21	Beep Sounds During Auxiliary Relay		42	#	Sound (0 , 1)	#	Sound=1 for Yes Sound=0 for No	0	 Press: 42# Sound # Selects whether or not the keypad beeps during Auxiliary Relay activation. 	
22	Beep Sounds During Output #3		43	#	Sound (0 , 1)	#	Sound=1 for Yes Sound=0 for No	0	 Press: 43# Sound # Selects whether or not the keypad beeps during Output #3 activation. 	
23	Beep Sounds During Output #4		44	#	Sound (0 , 1)	#	Sound=1 for Yes Sound=0 for No	0	 Press: 44# Sound # Selects whether or not the keypad beeps during Output #4 activation. 	

Entry codes:

- 1) Up to 480 user entry codes
- 2) 1 to 6 digits user codes
- 3) can be programmed
- 4) Keypad users request access by entering their code
- 5) Users of the SDC have up to 40 seconds to key in their entry code
- 6) Up to eight seconds are allowed between each keystroke
- 7) All digits of the entry code must be entered.

Example: if the code is 0042, the user must enter "0 0 4 2".

- 8) If the wrong key is pressed, pressing the * key will reset the keypad
- After a correct code is entered, the red indicator will turn green and the programmed relay will activate for the programmed time
- 10) If the number of incorrect codes entered exceeds the keypad lockout count, the yellow indicator will light, indicating that the keypad is locked out.
- 11) The lockout will remain for one minute
- 12) After a valid code has been entered, it will be unusable until the anti-pass back time expires.
- 13) They can activate either, or both of the relay outputs
- 14) The EEPROM memory retains all entry codes and programming, even without power.
- 15) An internal jumper is provided to reset the master code

Indicators (LEDs):

- 1) The left indicator lights red to indicate power
- 2) The left indicator turns green when access is granted
- The right indicator lights yellow when the keypad is in "lockout" condition (from too many incorrect code entries)

Internal sounder:

- 1) An internal sounder beeps when each key is pressed
- 2) An internal jumper sets the sounder volume high or low

The Door SENSE / Inhibit input

- SENSE terminal (gray wire) can be programmed for either a door sense or inhibit input. Both features cannot be used at the same time.
- If programmed for "door sense" the input is wired to a normally closed switch on the door to detect when the door is opened or closed. Forced entry or door ajar situations can then be detected.
- Route two wires from the switch to the keypad box. Connect the door switch to the keypad's SENSE terminal (gray wire E8) and COM terminal (any black wire)
- Using door sense, the "Auto-relock" feature will prevent "tailgating" by turning off the Main Relay output immediately when the door is closed after access has been granted.
- 5) If it is programmed for "inhibit", the input can be wired to a "service" switch or automatic timer that will disable the Main Relay when required.
- Route two wires from the switch or timer to the keypad box. Connect the inhibit switch/timer normally open terminals to the keypad's SENSE (gray wire E8) and COM (black wires) terminal.

	Programm				rogramm		ries Basic Progra			
NO	-ing Mode	Press		Г			de	Default	Instruction	
9	Select Request-to- Exit Output		21	#	OUTPUT (0 - 4)		Output 1=Main Relay 2=Auxiliary Relay 3=Output #3 4=Output #4 0=No Output)	1	 Press: 21# Output # Output=Output to Activate(0 Sets which output activates when the Request-to-Exit input is grounded. This output may be timed or toggled 	
10	Select Forced Entry Output		22	#	OUTPUT (0 - 4)	#	Output 1=Main Relay 2=Auxiliary Relay 3=Output #3 4=Output #4 0=No Output)	0	 Press: 22# Output # Output=Output to Activate(0 Sets which output activates if the DOOR SENSE input opens before access is granted. This output is not timed. 	
11	Select Door Ajar Output		23	#	OUTPUT (0 - 4)	#	Output 1=Main Relay 2=Auxiliary Relay 3=Output #3 4=Output #4 0=No Output)	0	 Press: 23# Output # Output=Output to Activate(0- Sets which output activates if the DOOR SENSE input stays open 60 seconds after access is granted. This output is not timed 	
12	Select Keypad Lockout Output		24	#	OUTPUT (0 - 4)	#	Output 1=Main Relay 2=Auxiliary Relay 3=Output #3 4=Output #4 0=No Output)	0	 Press: 24# Output # Output=Output to Activate(0- Sets which output activates when the keypad is "locked out" after too many incorrect entry cc attempts. The lockout time is 60 seconds. 	
13	Select Keypad Active Output		25	#	OUTPUT (0 - 4)	#	Output 1=Main Relay 2=Auxiliary Relay 3=Output #3 4=Output #4 0=No Output)	0	 Press: 25# Output # Output=Output to Activate(0- Sets which output activates when any keys are pressed. This output is timed. If toggle mode is selected for the output, the timer value defaults to 2 seconds. 	
14	Select Alarm Shunt Output		26	#	OUTPUT (0 - 4)	#	Output 1=Main Relay 2=Auxiliary Relay 3=Output #3 4=Output #4 0=No Output)	0	 Press: 26# Output # Output=Output to Activate(0- Sets which output activates during the time access is granted (Use this output ot shunt alarm contacts attached to the access door.) This output may be timed toggled. 	
15	Main Relay On-time		31	#	Seconds (0 - 60)	#	Seconds=Output time in seconds (0-60)	5	 Press: 31# Seconds # Sets the length of time the Ma Relay activates when triggered. 	

	KP165 Series Basic Programming												
NO	Programm				Pr	og	ramming	Co	ode		Default	Instruction	
NO	-ing Mode	Press					Cod	de			Delault		
6	Adding a New Entry Code		12	#	user code (1 - 6 digits)	#	user code (Repeat)	#	OUTPUT (a b c d) 1000=Main Relay 0100=Auxiliary Relay 0010=#3 OUTPUT 0001=#4 OUTPUT 1100=Both Relays 1110=Both Relays & #3 1111=ALL OUTPUT	#	4 digits	 Press: 12 # Code # Code # OUTPUT # Code=The new entry code: 1-999999, depending on code length OUTPUT =Relay output entry code will activate 	
7	Erasing a Single Entry Code		13	#	user code (4 - 6 digits)	#	user code (Repeat)	#			4 digits	●Press: 13 # Code # Code # ●Code=the entry code to delete ●The yellow indicator will flash quickly while its memory for the code to erase. The green indicator will light when the code is deleted.	
8	Erasing All Entry Codes		14	#	00000	#	000000	#				 Press: 14# 000000 #000000# Performing this command will remove all entry codes from the memory The green indicator will light while the memory is being deleted. This may take up to 15 seconds. 	

The REQUEST-TO-EXIT input

- The input can be wired to a pushbutton to provide codeless activation of Main Relay, Auxiliary Relay, Output #3 or Output #4 (programmable).
- Route two wires from the keypad box to a normally open pushbutton mounted on the secure side of the door. Connect the wires to the pushbutton and to the keypad's EXIT (violet wire E6) and COM (black wires) terminals.

The ALARM SHUNT output

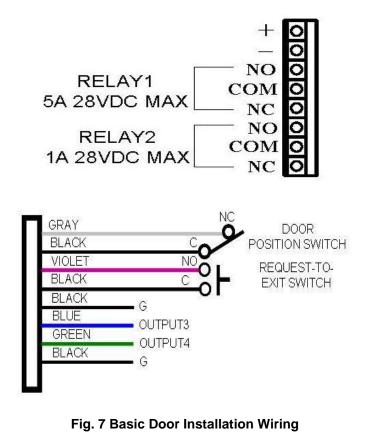
- 1) The output activates when access is granted.
- 2) It can be wired to shunt alarm contacts on the access door/gate to prevent triggering of an alarm when authorized access occurs.

Relay / solid state outputs

- 1) 4 independent outputs
- 2) 4 independent timers
- 3) 2 Form C relay contacts
- 4) The Main Relay has a 5 Amp capacity
- 5) The Auxiliary Relay has a 1 Amp capacity
- 6) Program entry codes to activate one or two relays
- 7) 2 solid state open collector outputs
- 8) Two solid state outputs, capable of switching 100 mA to common, are programmable to signal forced entry, door ajar, lockout, alarm circuit shunting, request-to-exit, and keypad active conditions.
- The two solid state outputs can be used to activate indicators or sounders.

Door Strike Wiring

- 1) Install a low voltage electric door strike for unlocking the door
- 2) Route two wires between the door strike and the keypad box
- Connect one of the door strike wires to the keypad's MAIN RELAY N.O. terminal (TB1 #3)
- 4) Connect the other door strike wire to the keypad's AC/DC+ terminal (TB #1)
- 5) Connect a wire between the keypad's AC/DC- terminal (TB #2) and the MAIN RELAY COM terminal (TB #4)



BASIC PROGRAMMING

- When in Programming Mode, both indicators will turn off until programming begins
- 2) After a programming option number is entered, the yellow indicator will blink. This shows that it is ready to accept the new programming data.
- 3) After the new data entry is complete, the yellow indicator will flash while the data is being stored. The green indicator will light if the data is accepted. The red indicator will light if any programming data is entered incorrectly, and the command will have to be fully re-entered.

	KP165 Series Basic Programming												
NO	Mode	Press	P	ro	gramming C Code		le		Default	Instruction			
1	Enter Programming	#9#			MASTER	CO	DE		123456	 Press: # 9 # Master Code (Default 123456) It is used to enter Programming Mode. 			
2	Exit Programming	**#								 Press: * * # The red indicator will light after exiting Programming Mode 			
3	Re-entering a Command after a Mistake	*9#								 Press: * 9 # If the red indicator lights, signaling an incorrect entry or an incorrect key is pressed during programming, to clear the keypad and re-enter the command 			
4	Changing the 6-Digit Master Programming Code		10	#	MASTER CODE (6 digits) (Old Code)	#	MASTE R CODE (NEW)	#	123456	 Press: 10# Master Code# Master Code# Master Code=The new 6 digit Master Programming Code It is used to change Master Programming code 			
5	Setting Entry Code Length		11	#	Length (1 - 6)	#			4digits	 Press: 11 # Length # Length : 1-6 for entry code length If the Entry Code Length is going to be changed from the factory default of 4 digits, make this change first before programming any entry codes. 			