

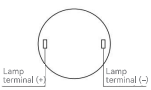
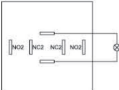
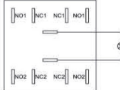
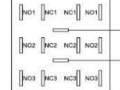
## ■ AL6 Series Technical parameter

Performance parameter	
Contact material	Silver alloy contacts (gold plated)
Contact Resistance(Initial value)	$\leq 50m\Omega$
Insulation impedance	$\geq 100M\Omega$ (500VDC)
Withstand voltage	Between different pole contacts: 1000VAC 50Hz for 1 minute; Between contacts that are disconnected at the same pole: 1000VAC 50Hz for 1 minute; Between contacts and lamp terminals: 1000VAC 50Hz for 1 minute;
Degree of Protection	Indicator light, button switch, emergency stop switch: IP65 (in front of the panel); Selection switch: IP40 (front of panel); Key switch: IP20 (panel front)
Action stroke	Connect approximately 1.5mm, with a total travel distance of approximately 3.5mm
Operating pressure	3~5N
Installation panel thickness	0.5~4mm
Nut torque	2~6N.m
Operating temperature	-25 °C~55 °C (without icing)
Working humidity	45%~85% (without condensation)
Mechanical Life	Self recovery: 1 million times; Self locking type: 100000 times; Selection and key: 250000 times
Electrical Life	100000 times
Vibration Resistance	10~55Hz, amplitude 1.2mm
Soldering Temperature	320°C $\pm$ 5°C 3S

LED lighting	
Lamp Type	Unidirectional LED light beads (need to distinguish positive and negative poles)
Rated Voltage	A:6VDC、B:12VDC、C:24VDC、D:110VAC、E:220VAC
Rated Current	Below 24V: approximately 15mA; Above 110V: approximately 8mA
Colour and number	R:Red、G:Green、B:Blue、W:White、Y:Yellow、O:orange
Life	40000H (reference value)
Depressurization method	Built-in resistor

Contact Ratings				
Rated insulation voltage		250VAC		
Heating current I <sub>th</sub>		5A Temperature does not exceed the maximum allowed current		
Rated voltage		24V	110V	220V
AC (50/60HZ)	Resistive load	—	1.0A	0.5A
	Inductive load	—	0.7A	0.5A
DC	Inductive load	1.0A	0.2A	—
	Inductive load	0.7A	0.1A	—


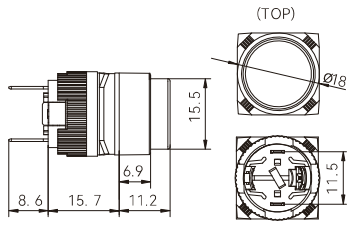

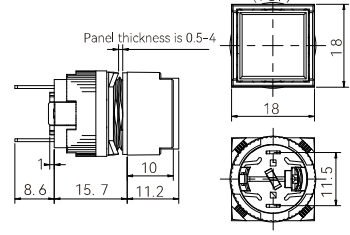

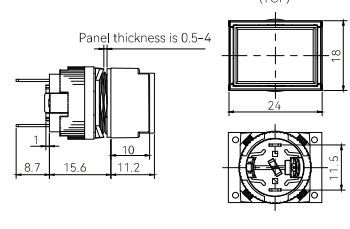
※ Applicable load (reference value)=5VAC/DC 5mA (usable range depends on usage conditions and load type)

Terminal style				
Terminal arrangement	Indicator	SPDT	DPDT	TPDT
Wiring diagram				

# AL616-1 Indicator light

<b>AL6</b>	<b>16</b>	<b>-</b>	<b>1</b>	<b>T</b>	<b>R</b>	<b>C</b>
series	Install size 16.16mm	Classification 1:Indicator	Kenel T:Round S:Square R:Rectangle	Color R:Red G:Green B:Blue W:White	Voltage A:6VDC B:12VDC C:24VDC D:110VAC E:220VAC	


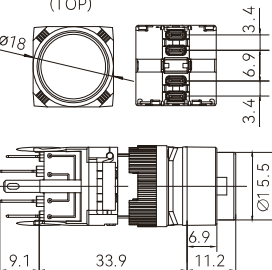


## Specification

Appearance	Voltage	Model	Color	Dimensions		
 <p>Round/Indicator</p>	6V AC/DC	<b>AL616-1T□A</b>	<p>Please code with the following colors Replace the "□" in the model</p> <p>R: red ● G: green ● B: blue ● W: white ○ Y: yellow ● A: orange ●</p>			
	12V AC/DC	<b>AL616-1T□B</b>				
	24V AC/DC	<b>AL616-1T□C</b>				
	110V AC/DC	<b>AL616-1T□D</b>				
	220V AC/DC	<b>AL616-1T□E</b>				
 <p>Square/Indicator</p>	6V AC/DC	<b>AL616-1S□A</b>		<p>Please code with the following colors Replace the "□" in the model</p> <p>R: red ● G: green ● B: blue ● W: white ○ Y: yellow ● A: orange ●</p>		
	12V AC/DC	<b>AL616-1S□B</b>				
	24V AC/DC	<b>AL616-1S□C</b>				
	110V AC/DC	<b>AL616-1S□D</b>				
	220V AC/DC	<b>AL616-1S□E</b>				
 <p>Rectangle/Indicator</p>	6V AC/DC	<b>AL616-1R□A</b>			<p>Please code with the following colors Replace the "□" in the model</p> <p>R: red ● G: green ● B: blue ● W: white ○ Y: yellow ● A: orange ●</p>	
	12V AC/DC	<b>AL616-1R□B</b>				
	24V AC/DC	<b>AL616-1R□C</b>				
	110V AC/DC	<b>AL616-1R□D</b>				
	220V AC/DC	<b>AL616-1R□E</b>				

※ ① The light bead colors are R: red, G: green, B: blue, W: white, Y: yellow, and A: orange, and the listed codes can be used to replace the "□" in the model as needed; For more specifications, please request the "Technical Specification" from the business department.

<b>AL6</b>	<b>16</b>	<b>-</b>	<b>2</b>	<b>T</b>	<b>2</b>	<b>R</b>	<b>12</b>	<b>C</b>
series	Install size 16:16mm		Classification 2: Button switch	Kezel T:Round S:Square R:Rectangle DT:Large circular shape DS:Large square DR:Large Rectangle	Function 1:Monetary 2:Maintained	Color R:Red G:Green B:Blue W:White Y:Yellow	Contact type 12:1N0+1NC 34:2N0+2NC 56:3N0+3NC	Voltage A:6VDC B:12VDC C:24VDC D:110VAC E:220VAC Non:Without light


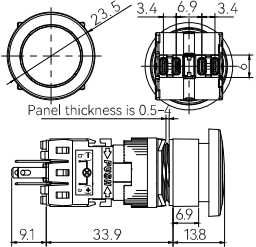

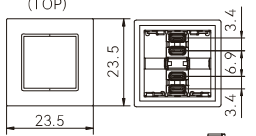

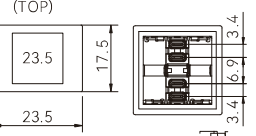
## Specification

Appearance	Operation Type	Illuminated type	Contact type	Model	Color	Voltage	Dimensions
 Round/Pushbutton Switch	Monetary	Without LED	1N0+1NC	<b>AL616-2T1□12</b>	Please code with the following colors Replace the "□" in the model R: red ● G: green ● B: blue ● W: white ○ Y: yellow ● A: orange ●	Please code with the following colors Replace the "▲" in the model A: 6VDC B: 12VDC C: 24VDC D: 110VAC E: 220VAC	
			2N0+2NC	<b>AL616-2T1□34</b>			
			3N0+3NC	<b>AL616-2T1□56</b>			
		With LED	1N0+1NC	<b>AL616-2T1□12▲</b>			
			2N0+2NC	<b>AL616-2T1□34▲</b>			
			3N0+3NC	<b>AL616-2T1□56▲</b>			
	Maintained	Without LED	1N0+1NC	<b>AL616-2T2□12</b>			
			2N0+2NC	<b>AL616-2T2□34</b>			
			3N0+3NC	<b>AL616-2T2□56</b>			
		With LED	1N0+1NC	<b>AL616-2T2□12▲</b>			
			2N0+2NC	<b>AL616-2T2□34▲</b>			
			3N0+3NC	<b>AL616-2T2□56▲</b>			
 Square/Pushbutton Switch	Monetary	Without LED	1N0+1NC	<b>AL616-2S1□12</b>			
			2N0+2NC	<b>AL616-2S1□34</b>			
			3N0+3NC	<b>AL616-2S1□56</b>			
		With LED	1N0+1NC	<b>AL616-2S1□12▲</b>			
			2N0+2NC	<b>AL616-2S1□34▲</b>			
			3N0+3NC	<b>AL616-2S1□56▲</b>			
	Maintained	Without LED	1N0+1NC	<b>AL616-2S2□12</b>			
			2N0+2NC	<b>AL616-2S2□34</b>			
			3N0+3NC	<b>AL616-2S2□56</b>			
		With LED	1N0+1NC	<b>AL616-2S2□12▲</b>			
			2N0+2NC	<b>AL616-2S2□34▲</b>			
			3N0+3NC	<b>AL616-2S2□56▲</b>			
 Rectangle/Pushbutton Switch	Monetary	Without LED	1N0+1NC	<b>AL616-2R1□12</b>			
			2N0+2NC	<b>AL616-2R1□34</b>			
			3N0+3NC	<b>AL616-2R1□56</b>			
		With LED	1N0+1NC	<b>AL616-2R1□12▲</b>			
			2N0+2NC	<b>AL616-2R1□34▲</b>			
			3N0+3NC	<b>AL616-2R1□56▲</b>			
	Maintained	Without LED	1N0+1NC	<b>AL616-2R2□12</b>			
			2N0+2NC	<b>AL616-2R2□34</b>			
			3N0+3NC	<b>AL616-2R2□56</b>			
		With LED	1N0+1NC	<b>AL616-2R2□12▲</b>			
			2N0+2NC	<b>AL616-2R2□34▲</b>			
			3N0+3NC	<b>AL616-2R2□56▲</b>			

※ ① The light bead colors are R: red, G: green, B: blue, W: white, Y: yellow, and A: orange, and the listed codes can be used to replace the "□" in the model as needed;  
 ② The lamp bead voltages are A: 6VAC/DC, B: 12VAC/DC, C: 24VAC/DC, D: 110VAC/DC, and E: 220VAC/DC, respectively. The listed codes can be used to replace the "▲" in the models as needed. For more specifications, please request the "Technical Specification" from the business department.

# AL616-2 Button switch


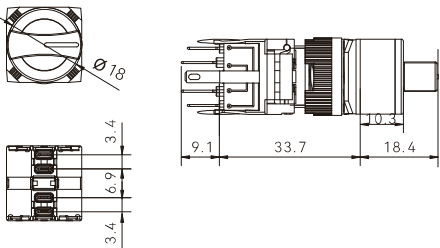
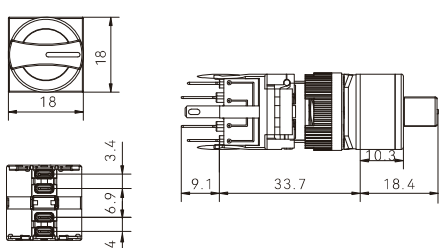
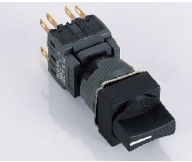
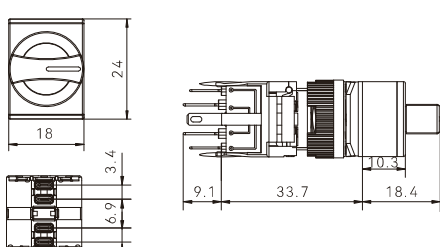

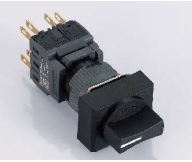

## ■ Specification

Appearance	Operation Type	Illuminated type	Contact type	Model	Color	Voltage	Dimensions		
 Large round/ Pushbutton Switch	Monetary	Without LED	1N0+1NC	<b>AL616-2DT1□12</b>	Please code with the following colors Replace the "□" in the model R: red ● G: green ● B: blue ● W: white ○ Y: yellow ● A: orange ●	Please code with the following colors Replace the "▲" in the model A: 6VDC B: 12VDC C: 24VDC D: 110VAC E: 220VAC	 Panel thickness is 0.5~1		
			2N0+2NC	<b>AL616-2DT1□34</b>					
			3N0+3NC	<b>AL616-2DT1□56</b>					
		With LED	1N0+1NC	<b>AL616-2DT1□12▲</b>					
			2N0+2NC	<b>AL616-2DT1□34▲</b>					
			3N0+3NC	<b>AL616-2DT1□56▲</b>					
	Maintained	Without LED	1N0+1NC	<b>AL616-2DT2□12</b>					
			2N0+2NC	<b>AL616-2DT2□34</b>					
		With LED	1N0+1NC	<b>AL616-2DT2□12▲</b>					
			3N0+3NC	<b>AL616-2DT2□56▲</b>					
 Large Square/ Pushbutton Switch	Monetary	Without LED	1N0+1NC	<b>AL616-2DS1□12</b>			Please code with the following colors Replace the "□" in the model R: red ● G: green ● B: blue ● W: white ○ Y: yellow ● A: orange ●	Please code with the following colors Replace the "▲" in the model A: 6VDC B: 12VDC C: 24VDC D: 110VAC E: 220VAC	 (TOP)
			2N0+2NC	<b>AL616-2DS1□34</b>					
			3N0+3NC	<b>AL616-2DS1□56</b>					
		With LED	1N0+1NC	<b>AL616-2DS1□12▲</b>					
			2N0+2NC	<b>AL616-2DS1□34▲</b>					
			3N0+3NC	<b>AL616-2DS1□56▲</b>					
	Maintained	Without LED	1N0+1NC	<b>AL616-2DS2□12</b>					
			2N0+2NC	<b>AL616-2DS2□34</b>					
		With LED	1N0+1NC	<b>AL616-2DS2□12▲</b>					
			3N0+3NC	<b>AL616-2DS2□56▲</b>					
 Large Square/ Pushbutton Switch	Monetary	Without LED	1N0+1NC	<b>AL616-2DR1□12</b>	Please code with the following colors Replace the "□" in the model R: red ● G: green ● B: blue ● W: white ○ Y: yellow ● A: orange ●	Please code with the following colors Replace the "▲" in the model A: 6VDC B: 12VDC C: 24VDC D: 110VAC E: 220VAC			 (TOP)
			2N0+2NC	<b>AL616-2DR1□34</b>					
			3N0+3NC	<b>AL616-2DR1□56</b>					
		With LED	1N0+1NC	<b>AL616-2DR1□12▲</b>					
			2N0+2NC	<b>AL616-2DR1□34▲</b>					
			3N0+3NC	<b>AL616-2DR1□56▲</b>					
	Maintained	Without LED	1N0+1NC	<b>AL616-2DR2□12</b>					
			2N0+2NC	<b>AL616-2DR2□34</b>					
		With LED	1N0+1NC	<b>AL616-2DR2□12▲</b>					
			3N0+3NC	<b>AL616-2DR2□56▲</b>					

※ ① The light bead colors are R: red, G: green, B: blue, W: white, Y: yellow, and A: orange, and the listed codes can be used to replace the "□" in the model as needed;  
 ② The lamp bead voltages are A: 6VAC/DC, B: 12VAC/DC, C: 24VAC/DC, D: 110VAC/DC, and E: 220VAC/DC, respectively. The listed codes can be used to replace the "▲" in the models as needed. For more specifications, please request the "Technical Specification" from the business department.

**AL6** **16** **-** **3** **X** **2** **K** **12**  
 series Install size Classification Kenel Function Color Contact type  
 16.16mm 3: Selection switch X: Second gear 1: Momentary N: Natural 12: 1N0+1NC  
 W: Third gear 2: Maintained color 34: 2N0+2NC  
 SX: Square two gears SW: Square third gear 56: 3N0+3NC  
 RX: Two rectangular gears RW: Rectangular third gear


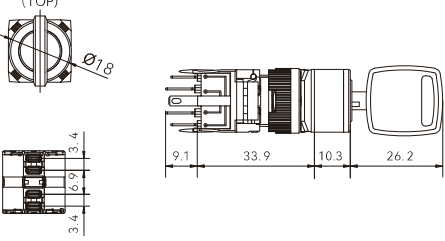

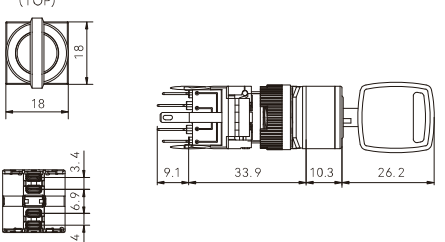
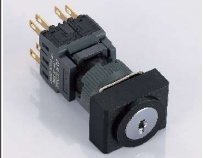
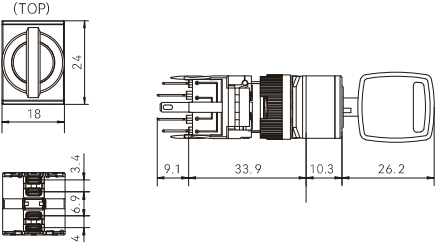
## ■ Specification

Appearance	Operation Type	Operation	Contact type	Model	Dimensions	
	Second gear	Momentary	L → R	1N0+1NC	<b>AL616-3X1K12</b>	
			2N0+2NC	<b>AL616-3X1K34</b>		
			3N0+3NC	<b>AL616-3X1K56</b>		
	Maintained	L → R	1N0+1NC	<b>AL616-3X2K12</b>		
			2N0+2NC	<b>AL616-3X2K34</b>		
			3N0+3NC	<b>AL616-3X2K56</b>		
Round/selector switch	Third gear	Momentary	L ← C → R	2N0+2NC	<b>AL616-3W1K34</b>	
			3N0+3NC	<b>AL616-3W1K56</b>		
			2N0+2NC	<b>AL616-3W2K34</b>		
	Maintained	L ← C → R	2N0+2NC	<b>AL616-3W2K34</b>		
			3N0+3NC	<b>AL616-3W2K56</b>		
			2N0+2NC	<b>AL616-3W1K34</b>		
	Second gear	Momentary	L → R	1N0+1NC	<b>AL616-3SX1K12</b>	
			2N0+2NC	<b>AL616-3SX1K34</b>		
			3N0+3NC	<b>AL616-3SX1K56</b>		
	Maintained	L → R	1N0+1NC	<b>AL616-3SX2K12</b>		
			2N0+2NC	<b>AL616-3SX2K34</b>		
			3N0+3NC	<b>AL616-3SX2K56</b>		
Square/selector switch	Third gear	Momentary	L ← C → R	2N0+2NC	<b>AL616-3SW1K34</b>	
			3N0+3NC	<b>AL616-3SW1K56</b>		
			2N0+2NC	<b>AL616-3SW2K34</b>		
	Maintained	L ← C → R	2N0+2NC	<b>AL616-3SW2K34</b>		
			3N0+3NC	<b>AL616-3SW2K56</b>		
			2N0+2NC	<b>AL616-3W1K34</b>		
	Second gear	Momentary	L → R	1N0+1NC	<b>AL616-3X1K12</b>	
			2N0+2NC	<b>AL616-3X1K34</b>		
			3N0+3NC	<b>AL616-3X1K56</b>		
	Maintained	L → R	1N0+1NC	<b>AL616-3X2K12</b>		
			2N0+2NC	<b>AL616-3X2K34</b>		
			3N0+3NC	<b>AL616-3X2K56</b>		
Square/selector switch	Third gear	Momentary	L ← C → R	2N0+2NC	<b>AL616-3W1K34</b>	
			3N0+3NC	<b>AL616-3W1K56</b>		
			2N0+2NC	<b>AL616-3W2K34</b>		
	Maintained	L ← C → R	2N0+2NC	<b>AL616-3W2K34</b>		
			3N0+3NC	<b>AL616-3W2K56</b>		
			2N0+2NC	<b>AL616-3W1K34</b>		

# AL616-4 Keyswitch


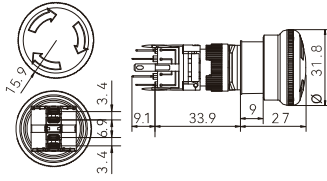


<b>AL6</b>	<b>16</b>	<b>-</b>	<b>4</b>	<b>X</b>	<b>2</b>	<b>N</b>	<b>12</b>
series	Install size 16:16mm	Classification 4: Keyswitch	Keel X:Second gear W:Third gear SW:Square two gears SW:Square third gear RX:Two rectangular gears RW:Rectangular third gear	Function 1: Momentary 2: Maintained	Color	Contact type 12:1N0+1NC 34:2N0+2NC 56:3N0+3NC	

## Specification

Appearance	Operation Type	Operationz	Contact type	Model	Dimensions	
	Second gear	Momentary	L → R	1N0+1NC	<b>AL616-4X1N12</b>	
				2N0+2NC	<b>AL616-4X1N34</b>	
				3N0+3NC	<b>AL616-4X1N56</b>	
	Third gear	Maintained	L → R	1N0+1NC	<b>AL616-4X2N12</b>	
				2N0+2NC	<b>AL616-4X2N34</b>	
				3N0+3NC	<b>AL616-4X2N56</b>	
	Second gear	Momentary	L → R	2N0+2NC	<b>AL616-4W1N34</b>	
				3N0+3NC	<b>AL616-4W1N56</b>	
				2N0+2NC	<b>AL616-4W2N34</b>	
	Third gear	Maintained	L → R	2N0+2NC	<b>AL616-4W2N34</b>	
				3N0+3NC	<b>AL616-4W2N56</b>	
				2N0+2NC	<b>AL616-4W1N34</b>	
	Second gear	Momentary	L → R	1N0+1NC	<b>AL616-4RX1N12</b>	
				2N0+2NC	<b>AL616-4RX1N34</b>	
				3N0+3NC	<b>AL616-4RX1N56</b>	
	Third gear	Maintained	L → R	1N0+1NC	<b>AL616-4RX2N12</b>	
				2N0+2NC	<b>AL616-4RX2N34</b>	
				3N0+3NC	<b>AL616-4RX2N56</b>	
Third gear	Momentary	L → R	2N0+2NC	<b>AL616-4RW1N34</b>		
			3N0+3NC	<b>AL616-4RW1N56</b>		
			2N0+2NC	<b>AL616-4RW2N34</b>		
Third gear	Maintained	L → R	2N0+2NC	<b>AL616-4RW2N34</b>		
			3N0+3NC	<b>AL616-4RW2N56</b>		
			2N0+2NC	<b>AL616-4RW1N34</b>		

<b>AL6</b>	<b>16</b>	<b>-</b>	<b>5</b>	<b>N</b>	<b>2</b>	<b>R</b>	<b>12</b>	<b>C</b>
series	Install size 16:16mm		Classification 5: Emergency stop switch	Keel N: Mushroom Head Emergency stop NB: A-type emergency stop NB: B-type emergency stop	Function 2: Maintained R: Red	Color R: Red	Contact type 12: 1N0+1NC 34: 2N0+2NC 56: 3N0+3NC	Voltage A: 6VDC B: 12VDC C: 24VDC D: 110VAC E: 220VAC Non: Without LED

## Specification

Appearance	Operation Type	Illuminated type	Contact type	Model	Voltage	Dimensions
 <p>Mushroom head type/ emergency stop switch</p>	Maintained	Without LED	1N0+1NC	<b>AL616-5N2R12</b>	Please code with the following colors Replace the "▲" in the model  A: 6VDC B: 12VDC C: 24VDC D: 110VAC E: 220VAC	
			2N0+2NC	<b>AL616-5N2R34</b>		
			3N0+3NC	<b>AL616-5N2R56</b>		
		With LED	1N0+1NC	<b>AL616-5N2R12▲</b>		
			2N0+2NC	<b>AL616-5N2R34▲</b>		
			3N0+3NC	<b>AL616-5N2R56▲</b>		
 <p>Type A/ Emergency Stop Switch</p>	Maintained	Without LED	1N0+1NC	<b>AL616-5NA2R12</b>		
			2N0+2NC	<b>AL616-5NA2R34</b>		
			3N0+3NC	<b>AL616-5NA2R56</b>		
		With LED	1N0+1NC	<b>AL616-5NA2R12▲</b>		
			2N0+2NC	<b>AL616-5NA2R34▲</b>		
			3N0+3NC	<b>AL616-5NA2R56▲</b>		
 <p>Type B/ Emergency Stop Switch</p>	Maintained	Without LED	1N0+1NC	<b>AL616-5NB2R12</b>		
			2N0+2NC	<b>AL616-5NB2R34</b>		
			3N0+3NC	<b>AL616-5NB2R56</b>		
		With LED	1N0+1NC	<b>AL616-5NB2R12▲</b>		
			2N0+2NC	<b>AL616-5NB2R34▲</b>		
			3N0+3NC	<b>AL616-5NB2R56▲</b>		