

NO: RL-164
DATE: February 2018

PRODUCT: G7Z Relay
TYPE: Discontinuation Notice

G7Z relay and G73Z auxiliary contact block will be discontinued February 2019



Discontinuation Date: February 2019

Note: Date is subject to change based on raw materials and components availability at the factory.

Product Discontinuation	Recommended Replacement
Relay with auxiliary contact block	Relay with auxiliary contact block
MODEL G7Z-□A□B-□Z series	MODEL G7Z-□A□B-□Z-R series
Auxiliary contact block	Auxiliary contact block
MODEL G73Z-□Z series	MODEL G73Z-□Z-R series

Cautions on Applying Replacements

- The characteristics are different from the discontinued product to the recommended replacement

See the detail of differences on the following pages

Affected Parts

Product discontinuation	Recommended replacement
G73Z-02Z	G73Z-02Z-R
G73Z-11Z	G73Z-11Z-R
G73Z-20Z	G73Z-20Z-R
G7Z-2A2B-02Z DC12	G7Z-2A2B-02Z-R DC12V
G7Z-2A2B-02Z DC24	G7Z-2A2B-02Z-R DC24V
G7Z-2A2B-11Z DC12	G7Z-2A2B-11Z-R DC12V
G7Z-2A2B-11Z DC24	G7Z-2A2B-11Z-R DC24V
G7Z-2A2B-20Z DC12	G7Z-2A2B-20Z-R DC12V
G7Z-2A2B-20Z DC24	G7Z-2A2B-20Z-R DC24V
G7Z-3A1B-02Z DC12	G7Z-3A1B-02Z-R DC12V
G7Z-3A1B-02Z DC24	G7Z-3A1B-02Z-R DC24V
G7Z-3A1B-11Z DC12	G7Z-3A1B-11Z-R DC12V
G7Z-3A1B-11Z DC24	G7Z-3A1B-11Z-R DC24V

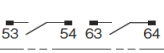
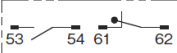
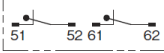
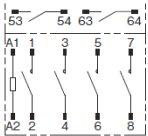
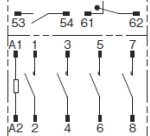
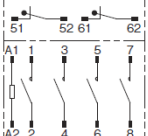
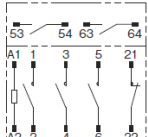
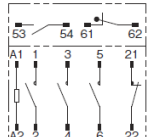
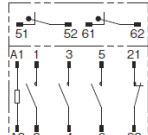
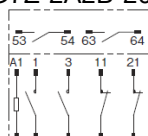
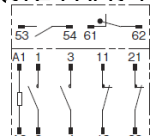
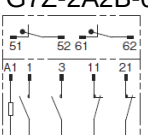
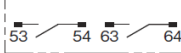
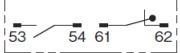
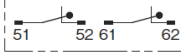
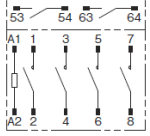
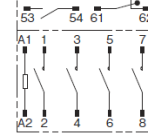
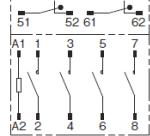
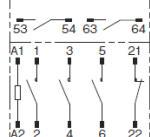
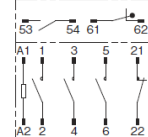
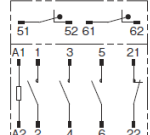
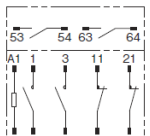
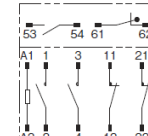
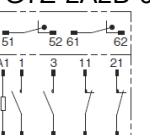
Product discontinuation	Recommended replacement
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G7Z-3A1B-20Z DC24	G7Z-3A1B-20Z-R DC24V
G7Z-4A-02Z DC12	G7Z-4A-02Z-R DC12V
G7Z-4A-02Z DC24	G7Z-4A-02Z-R DC24V
G7Z-4A-11Z DC12	G7Z-4A-11Z-R DC12V
G7Z-4A-11Z DC24	G7Z-4A-11Z-R DC24
G7Z-4A-20Z DC12	G7Z-4A-20Z-R DC12V
G7Z-4A-20Z DC24	G7Z-4A-20Z-R DC24V
G73Z-02Z-B	G73Z-02Z-R-B
G73Z-11Z-B	G73Z-11Z-R-B
G73Z-20Z-B	G73Z-20Z-R-B
G7Z-2A2B-02Z-B DC12	G7Z-2A2B-02Z-R-B DC12V
G7Z-2A2B-02Z-B DC24	G7Z-2A2B-02Z-R-B DC24V
G7Z-2A2B-11Z-B DC12	G7Z-2A2B-11Z-R-B DC12V
G7Z-2A2B-11Z-B DC24	G7Z-2A2B-11Z-R-B DC24V
G7Z-2A2B-20Z-B DC12	G7Z-2A2B-20Z-R-B DC12V
G7Z-2A2B-20Z-B DC24	G7Z-2A2B-20Z-R-B DC24V
G7Z-3A1B-02Z-B DC12	G7Z-3A1B-02Z-R-B DC12V
G7Z-3A1B-02Z-B DC24	G7Z-3A1B-02Z-R-B DC24V
G7Z-3A1B-11Z-B DC12	G7Z-3A1B-11Z-R-B DC12V
G7Z-3A1B-11Z-B DC24	G7Z-3A1B-11Z-R-B DC24V
G7Z-3A1B-20Z-B DC12	G7Z-3A1B-20Z-R-B DC12V
G7Z-3A1B-20Z-B DC24	G7Z-3A1B-20Z-R-B DC24V
G7Z-4A-02Z-B DC12	G7Z-4A-02Z-R-B DC12V
G7Z-4A-02Z-B DC24	G7Z-4A-02Z-R-B DC24V
G7Z-4A-11Z-B DC12	G7Z-4A-11Z-R-B DC12V
G7Z-4A-11Z-B DC24	G7Z-4A-11Z-R-B DC24V
G7Z-4A-20Z-B DC12	G7Z-4A-20Z-R-B DC12V
G7Z-4A-20Z-B DC24	G7Z-4A-20Z-R-B DC24V

Detail of differences

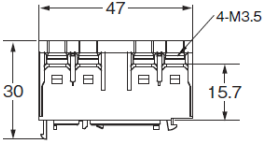
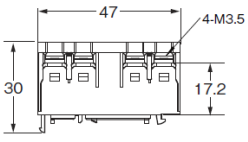
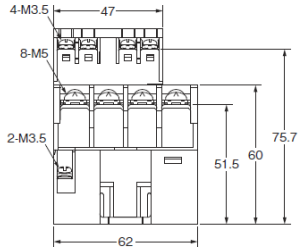
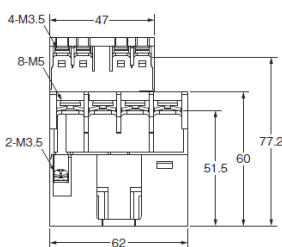
Body color

Product discontinuation Model G7Z-□A□B-□Z series Model G73Z-□Z series	Recommendable replacement Model G7Z-□A□B-□Z-R series Model G73Z-□Z-R series
Material of mechanical indicator : Plastic  Assemble part with G7Z Color : Black 	Material of mechanical indicator : Metal  Assemble part with G7Z Color : White 

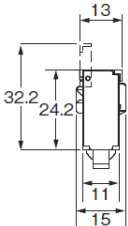
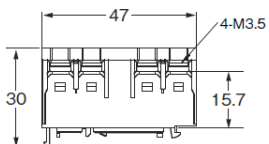
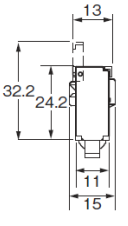
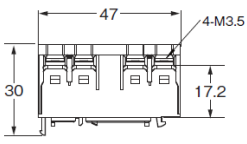
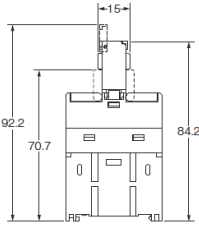
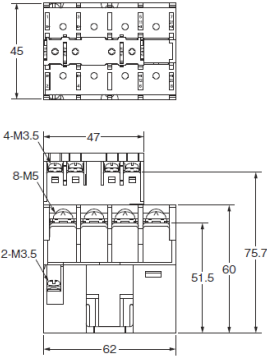
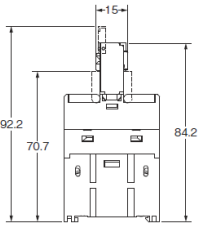
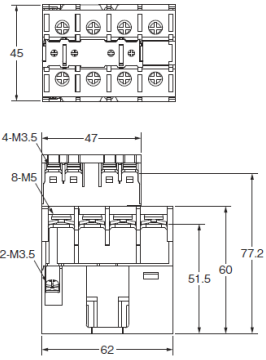
Wire connection

Product discontinuation Model G7Z-□A□B-□Z series Model G73Z-□Z series	Recommendable replacement Model G7Z-□A□B-□Z-R series Model G73Z-□Z-R series
Terminal Arrangement Model G73Z-□Z series G73Z-20Z(-B)  G73Z-11Z(-B)  G73Z-02Z(-B)  Model G7Z-□A□B-□Z series G7Z-4A-20Z(-B)  G7Z-4A-11Z(-B)  G7Z-4A-02Z(-B)  G7Z-3A1B-20Z(-B)  G7Z-3A1B-11Z(-B)  G7Z-3A1B-02Z(-B)  G7Z-2A2B-20Z(-B)  G7Z-2A2B-11Z(-B)  G7Z-2A2B-02Z(-B)  Note: The coil has no polarity.	Terminal Arrangement Model G73Z-□Z-R series G73Z-20Z-R(-B)  G73Z-11Z-R(-B)  G73Z-02Z-R(-B)  Model G7Z-□A□B-□Z-R series G7Z-4A-20Z-R(-B)  G7Z-4A-11Z-R(-B)  G7Z-4A-02Z-R(-B)  G7Z-3A1B-20Z-R(-B)  G7Z-3A1B-11Z-R(-B)  G7Z-3A1B-02Z-R(-B)  G7Z-2A2B-20Z-R(-B)  G7Z-2A2B-11Z-R(-B)  G7Z-2A2B-02Z-R(-B)  Note: The coil has no polarity.

Mounting dimensions

Product discontinuation Model G7Z-□A□B-□Z series Model G73Z-□Z series	Recommendable replacement Model G7Z-□A□B-□Z-R series Model G73Z-□Z-R series
Model G73Z-□Z series The position of a screw: Approx. 15.7mm (Auxiliary Contact Block) 	Model G73Z-□Z-R series The position of a screw: Approx. 17.2mm (Auxiliary Contact Block) 
Model G7Z-□A□B-□Z series The position of a screw: Approx. 75.7mm (Relay with auxiliary Contact Block) 	Model G7Z-□A□B-□Z-R series The position of a screw: Approx. 77.2mm (Relay with auxiliary Contact Block) 

Dimensions

Product discontinuation Model G7Z-□A□B-□Z series Model G73Z-□Z series	Recommendable replacement Model G7Z□A□B-□Z-R series Model G73Z-□Z-R series
Dimensions Model G73Z-□Z series Auxiliary Contact Block  	Dimensions Model G73Z-□Z-R series Auxiliary Contact Block  
Model G7Z-□A□B-□Z series Relay with auxiliary Contact Block  	Model G7Z-□A□B-□Z-R series Relay with auxiliary Contact Block  

Characteristics

Item	Product discontinuation Model G7Z-□A□B-□Z series Model G73Z-□Z series	Recommendable replacement Model G7Z-□A□B-□Z-R series Model G73Z-□Z-R series
Coil		
	No change	No change
Contact (Relay)		
	No change	No change
Contact (Auxiliary Contact Block)		
Contact structure	Double break	Single break
Contact material	Au clad + Ag	Au clad + AgNi
Rated load: Resistive load ($\cos \phi = 1.0$)	1A at 440VAC	1A at 440VAC
Rated load: Resistive load (L/R=1ms)	0.5A at 110VDC	0.5A at 110VDC
Rated load: Inductive load ($\cos \phi = 0.3$)	0.5A at 440VAC	0.5A at 440VAC
Rated carry current	1A	1A
Maximum contact voltage	480VAC	480VAC
	125VDC	125VDC
Maximum contact current (Resistive load $\cos \phi = 1.0$)	1A	1A
Maximum contact current (Resistive load L/R=1ms)	0.5A	0.5A
Maximum contact current (Inductive load $\cos \phi = 0.3$)	0.5A	0.5A
Maximum switching capacity (Resistive load $\cos \phi = 1.0$)	440VA	440VA
Maximum switching capacity (Resistive load L/R=1ms)	55W	55W
Maximum switching capacity (Inductive load $\cos \phi = 0.3$)	220VA	220VA
Characteristics (Relay)		
	No change	No change
Characteristics (Auxiliary Contact Block)		
Contact resistance (0.1A at 5VDC using the voltage drop method)	100m Ω max.	100m Ω max.
Operating time The rated voltage Contact bounce: ignored Ambient temperature: 23°C	50ms max.	50ms max.
Release time The rated voltage Contact bounce: ignored Ambient temperature: 23°C	50ms max.	50ms max.
Maximum operating mechanical frequency	1,800 operations/h	1,800 operations/h
Maximum operating rated load frequency	1,200 operations/h	1,200 operations/h
Insulation resistance 1,000VDC megohmmeter (Between contacts of different polarity)	1,000M Ω min.	1,000M Ω min.

Item	Product discontinuation Model G7Z-□A□B-□Z series Model G73Z-□Z series	Recommendable replacement Model G7Z-□A□B-□Z-R series Model G73Z-□Z-R series
(Between contacts of the same polarity)		
Dielectric strength (Between contacts of different polarity)	4,000 VAC, 50/60 Hz for 1 min	4,000 VAC, 50/60 Hz for 1 min
Dielectric strength (Between contacts of the same polarity)	2,000 VAC, 50/60 Hz for 1 min	2,000 VAC, 50/60 Hz for 1 min
Impulse withstand voltage (Between contacts of different polarity)	10 kV, $1.2 \times 50 \mu s$	10 kV, $1.2 \times 50 \mu s$
Impulse withstand voltage (Between contacts of the same polarity)	4.5 kV, $1.2 \times 50 \mu s$	3.0 kV, $1.2 \times 50 \mu s$
Destruction vibration resistance	10 to 55 to 10 Hz, 0.5-mm single amplitude (1.0-mm double amplitude)	10 to 55 to 10 Hz, 0.5-mm single amplitude (1.0-mm double amplitude)
Malfunction vibration resistance (NO)	10 to 55 to 10 Hz, 0.5-mm single amplitude (1.0-mm double amplitude)	10 to 55 to 10 Hz, 0.5-mm single amplitude (1.0-mm double amplitude)
Malfunction vibration resistance (NC)	10 to 32 to 10 Hz, 0.5-mm single amplitude (1.0-mm double amplitude)	10 to 32 to 10 Hz, 0.5-mm single amplitude (1.0-mm double amplitude)
Destruction shock resistance	Screw mounting: 700 m/s ² DIN Track mounting: 500m/s ²	Screw mounting: 700 m/s ² DIN Track mounting: 500m/s ²
Malfunction shock resistance (NO)	100 m/s ²	100 m/s ²
Malfunction shock resistance (NC)	25 m/s ²	25 m/s ²
Mechanical durability	1,000,000 operations min. (at 1,800 operations/h, contact no load)	1,000,000 operations min. (at 1,800 operations/h, contact no load)
Electrical durability AC resistive load (Ambient temperature: 23°C)	80,000 operations (at 1,200 operations/h, Rated load)	80,000 operations (at 1,200 operations/h, Rated load)
Electrical durability AC inductive load (Ambient temperature: 23°C)	80,000 operations (at 1,200 operations/h, Rated load)	80,000 operations (at 1,200 operations/h, Rated load)
Electrical durability DC resistive load (Ambient temperature: 23°C)	100,000 operations (at 1,200 operations/h, Rated load)	100,000 operations (at 1,200 operations/h, Rated load)
Failure rate(P level) (reference value)	1mA at 5 VDC (at 1,800 operations/h)	1mA at 1 VDC (at 1,800 operations/h)
Ambient operating temperature	-25 to 60 °C (with no icing or condensation)	-25 to 60 °C (with no icing or condensation)
Ambient operating humidity	5% to 85%	5% to 85%
Weight	Approx. 18g	Approx. 18g
UL Standard (Relay)		
	No change	No change
UL Standard (Auxiliary Contact Block)		
Contact ratings	D300 (1-A current applied)	D300 (1-A current applied)
TUV Certification (Relay)		
	No change	No change

Item	Product discontinuation Model G7Z-□A□B-□Z series Model G73Z-□Z series	Recommendable replacement Model G7Z-□A□B-□Z-R series Model G73Z-□Z-R series
TUV Certification (Auxiliary Contact Block)		
Contact ratings	AC-15:0.5A 440V 50/60Hz	AC-15:0.3A 440V 50/60Hz
	DC-13:0.5A 110V	DC-13:0.3A 110V
CCC Certification		
Standard No.	GB 14048.4	GB 14048.4
Certification No.	2009010304361493	2009010304361493

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Only main changes in specifications are described in this document. Please be sure to read the relevant catalogs, datasheets, product specifications, instructions, and manuals for precautions and necessary information when using products.