

# HDZ9 Miniature Relays

Standard: IEC60947-4



## Overview

### 1 Laser Printing

Clear and durable



### 2 LED Indicator

Visible ON/OFF indication



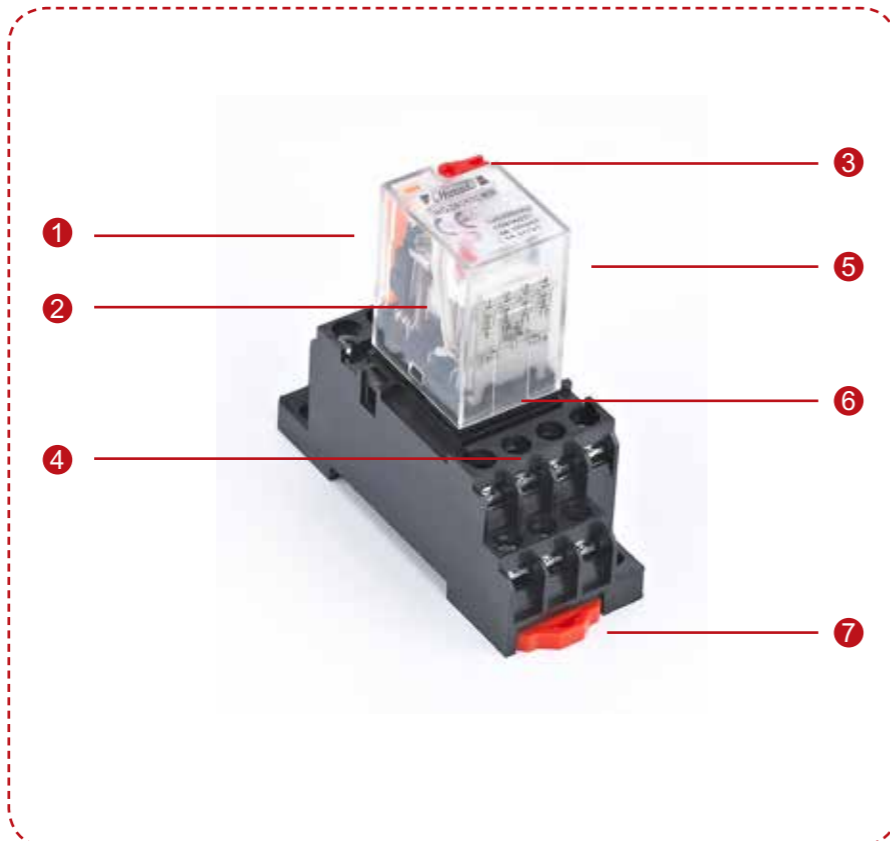
### 3 Color Button

Differ DC or AC coil



### 4 Transparence Cover Design

Anti-touch base



### 5 Mechanical Indicator

Double ON/OFF indication



### 6 Rotary Test Bottom

Manu test ON/OFF



### 7 Multi Selection of Contact Combination

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## Range Presentation

HDZ9 is Himel range of Miniature Relays designed to implement control signal conversion to low power output. They can be widely used for industrial control applications

## Features

- ◆ Rated current: 3A, 5A, 10A
- ◆ Pole: 2-pole, 3-pole, 4-pole
- ◆ Maximum rated operating Voltage: 690V
- ◆ Rated operating frequency: 50/60Hz
- ◆ Coil specification: DC: 6V~220V; AC: 6V~380V
- ◆ New specification: Rotary push button

## Online Content



HDZ9

## Selection Code

Range name	Current	Poles	AC/DC	LED	Coil voltage	Type
<b>HDZ9</b>	<b>05</b>	<b>2</b>	<b>D</b>	<b>L</b>	<b>M</b>	<b>R</b>
<b>HDZ9</b>	<b>03: 3A</b> <b>05: 5A</b> <b>10: 10A</b>	<b>2: 2P</b> <b>3: 3P</b> <b>4: 4P</b>	<b>Default: AC</b> <b>D: DC</b>	<b>Default: None</b> <b>L: LED</b>	<b>T: 6V</b> <b>S: 127V</b> <b>J: 12V</b> <b>M: 220V</b> <b>B: 24V</b> <b>N: 230V</b> <b>C: 36V</b> <b>U: 240V</b> <b>E: 48V</b> <b>Q: 380V</b> <b>F: 110V</b>	<b>Default: Classic</b> <b>R: Rotary button</b>

## Technical Parameters

Miniature relays	HDZ9						
Type	03	05			10		
	4P	2P	3P	4P	2P	3P	4P
Max load current	3A	5A			10A		
Max operation voltage	250VAC 28VDC						
Contact resistance	≤100mΩ						
Contact material	Silver Alloy						
Electrical endurance	≥100000 times (1800 times/h)						
Mechanical endurance	≥10000000 times (18000 times/h)						
Actuation voltage (23°C )	DC: ≤75% (rated voltage), AC: ≤80% (rated voltage)						
Release voltage (23°C )	DC: ≥10% (rated voltage), AC: ≥30% (rated voltage)						
Maximum voltage (23°C )	110% (rated voltage)						
Insulation resistance	≥100MΩ (500VDC)						
Coil power	DC: 0.9 W AC:1.2VA						
Actuation time (rated voltage)	≤15ms						
Release time (rated voltage)	≤10ms						
Withstand voltage	polar- contacts	1500VAC/1min (residual current is 1mA)					
	bipolar - contacts	1200VAC/1min (residual current is 1mA)					
	coil -contacts	1500VAC/1min (residual current is 1mA)					
Ambient temperature	-25°C ~+55°C						
Ambient humidity	35%~85%RH						
Atmospheric pressure	86~106KPa						
Installation method	Plug-in						
Weight	30g						
Coil voltage	DC: 6V~220V; AC: 6V~380V.						
Certificate	CB, CE, SEMKO						

PANEL COMPONENTS

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Order Information

Classic Type

Rated Current	Poles	Control Voltage	LED	Reference	Base		
					economical	Basic	European
5A	2	AC	L	HDZ9052L*	HPYF08A	HPYF08A15	HPYF08AZ
		AC	None	HDZ9052*	HPYF08A	HPYF08A15	HPYF08AZ
		DC	L	HDZ9052DL*	HPYF08A	HPYF08A15	HPYF08AZ
		DC	None	HDZ9052D*	HPYF08A	HPYF08A15	HPYF08AZ
	3	AC	L	HDZ9053L*	HPYF11A		
		AC	None	HDZ9053*	HPYF11A		
		DC	L	HDZ9053DL*	HPYF11A		
		DC	None	HDZ9053D*	HPYF11A		
	4	AC	L	HDZ9054L*	HPYF14A	HPYF14A15	HPYF14AZ
		AC	None	HDZ9054*	HPYF14A	HPYF14A15	HPYF14AZ
		DC	L	HDZ9054DL*	HPYF14A	HPYF14A15	HPYF14AZ
		DC	None	HDZ9054D*	HPYF14A	HPYF14A15	HPYF14AZ
3A	4	AC	L	HDZ9034L*	HPYF14A	HPYF14A15	HPYF14AZ
		AC	None	HDZ9034*	HPYF14A	HPYF14A15	HPYF14AZ
		DC	L	HDZ9034DL*	HPYF14A	HPYF14A15	HPYF14AZ
		DC	None	HDZ9034D*	HPYF14A	HPYF14A15	HPYF14AZ
10A	2	AC	L	HDZ9102L*	HPTF08A	HPTF08A15	
		AC	None	HDZ9102*	HPTF08A	HPTF08A15	
		DC	L	HDZ9102DL*	HPTF08A	HPTF08A15	
		DC	None	HDZ9102D*	HPTF08A	HPTF08A15	
	3	AC	L	HDZ9103L*	HPTF11A	HPTF11A15	
		AC	None	HDZ9103*	HPTF11A	HPTF11A15	
		DC	L	HDZ9103DL*	HPTF11A	HPTF11A15	
		DC	None	HDZ9103D*	HPTF11A	HPTF11A15	
	4	AC	L	HDZ9104L*	HPTF14A	HPTF14A15	
		AC	None	HDZ9104*	HPTF14A	HPTF14A15	
		DC	L	HDZ9104DL*	HPTF14A	HPTF14A15	
		DC	None	HDZ9104D*	HPTF14A	HPTF14A15	



PANEL COMPONENTS

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Order Information

Rotary Button Type

Rated Current	Poles	Control Voltage	LED	Reference	Base		
					Economical	Basic	European
5A	2	AC	L	HDZ9052L*R	HPYF08A	HPYF08A15	HPYF08AZ
		AC	None	HDZ9052*R	HPYF08A	HPYF08A15	HPYF08AZ
		DC	L	HDZ9052DL*R	HPYF08A	HPYF08A15	HPYF08AZ
		DC	None	HDZ9052D*R	HPYF08A	HPYF08A15	HPYF08AZ
3A	4	AC	L	HDZ9034L*R	HPYF14A	HPYF14A15	HPYF14AZ
		AC	None	HDZ9034*R	HPYF14A	HPYF14A15	HPYF14AZ
		DC	L	HDZ9034DL*R	HPYF14A	HPYF14A15	HPYF14AZ
		DC	None	HDZ9034D*R	HPYF14A	HPYF14A15	HPYF14AZ

\* is control voltage and with/with not test button



Base type

Accessory jump ring	adepted base
HPY36M2C	HPYF08A15
HPY36S	HPYF08A15 HPYF08A HPYF14A15 HPYF14A HPTF08A
HIHPY36M	HPYF14AZ HPYF08AZ HPTF08A15

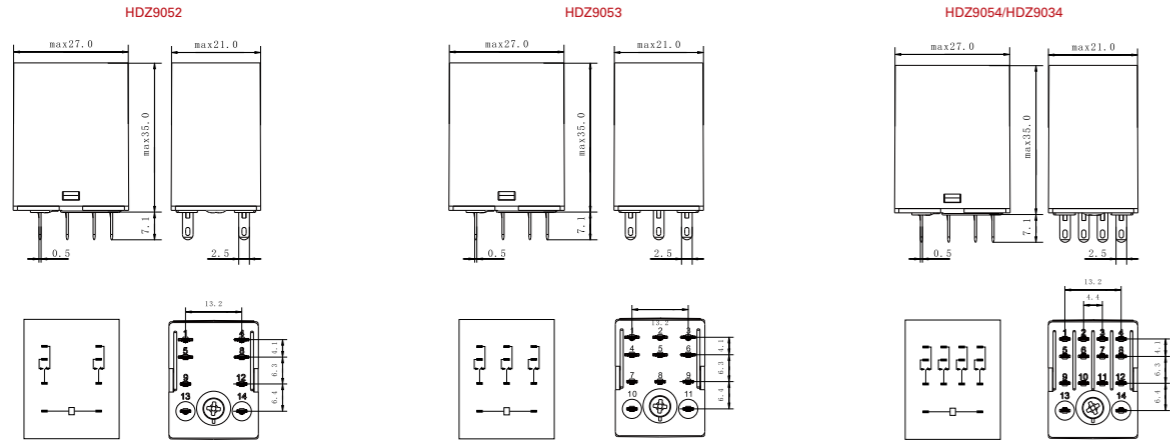
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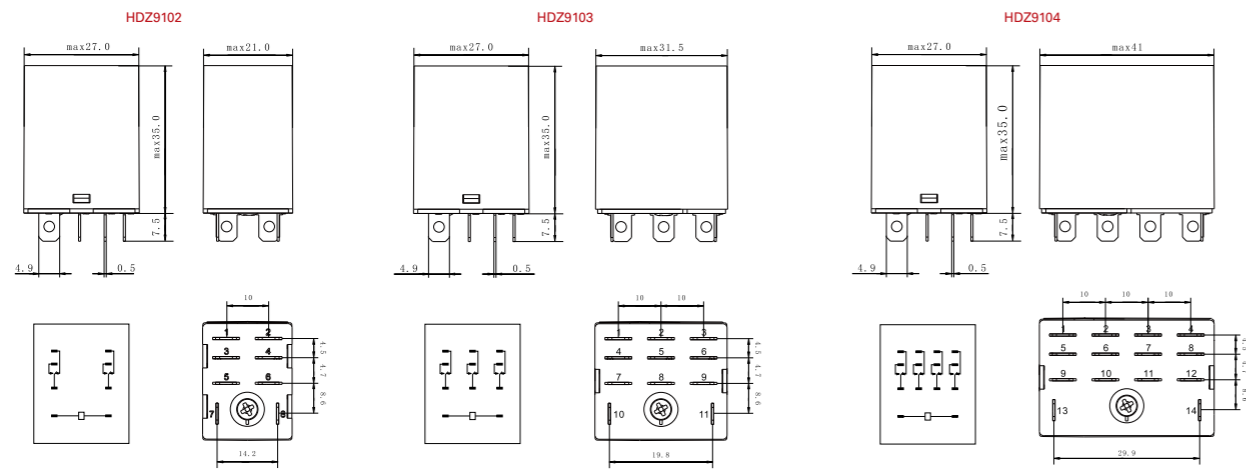


## Overall Dimensions-Relayer

HDZ9-03/05



HDZ9-10



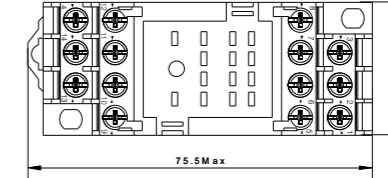
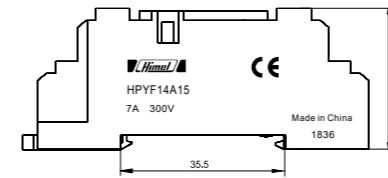
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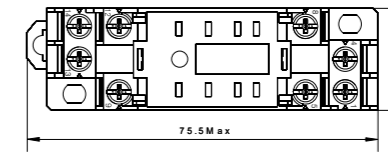
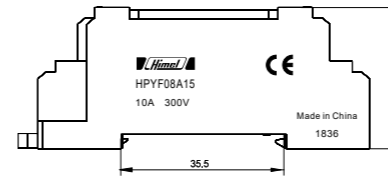


## Overall Dimensions-Base

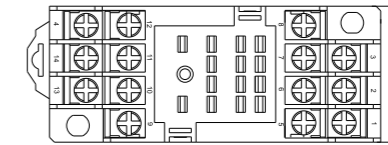
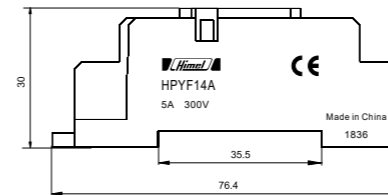
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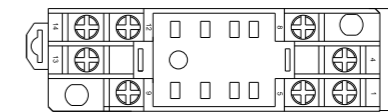
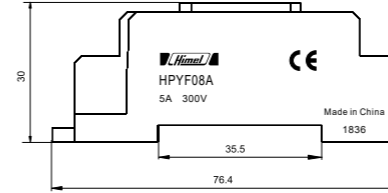
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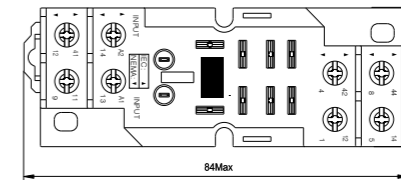
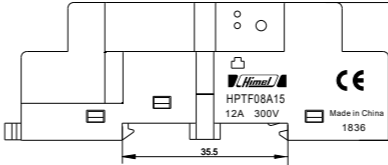
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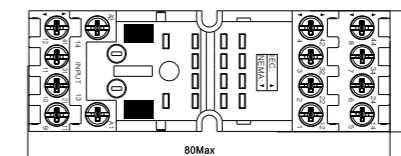
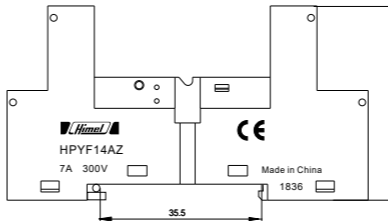
HPYF08A



HPTF08A15



HPYF14AZ



# PANEL COMPONENTS

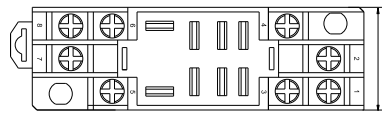
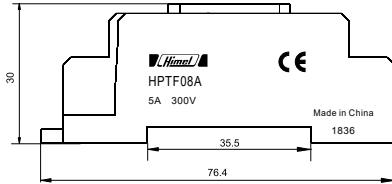
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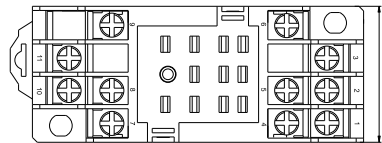
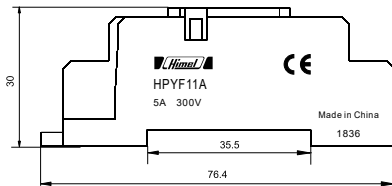


### Overall Dimensions-Base

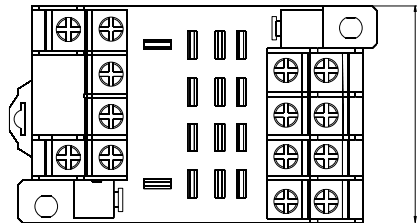
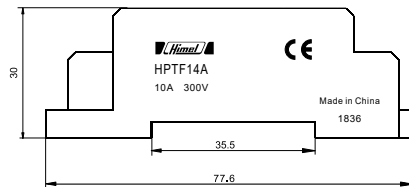
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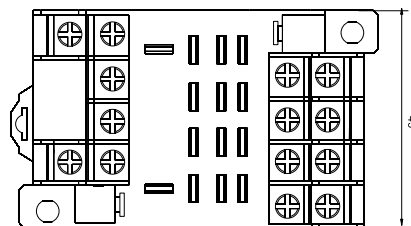
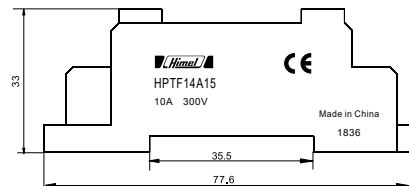
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HPTF14A



HPYF11A



HPTF14A15

