- 4 Inputs and 4 Outputs or 8 Inputs and 8 Outputs
- Inputs Can be Configured to Sink or Source
- Transistor or Relay Outputs
- Inputs are Opto-Isolated
- Transistor Outputs are Opto-Isolated
- LED Display to Monitor Running Conditions
- Easy Maintenance and Installation



The PLC-K523 Discrete Input and Output Expansion Modules are offered in Transistor or Relay outputs and sinking or sourcing inputs. These units come with 4 inputs and 4 outputs or 8 inputs and 8 outputs. These units are ideal to expand beyond the onboard inputs and outputs of the PLC-K5 CPUs, which can handle up to 136 I/O points with a maximum of 6 expansion modules. The inputs are rated for 3.5 mA and can be configured for either sourcing or sinking. The transistor outputs are rated for 500 mA @ 24 Vdc and come only in a sourcing configuration. The relay outputs are rated for 2 A @ 30 Vdc or 250 Vac, and are great for switching on and off high load devices AC or DC devices, particularly AC or DC motors. The transistor output modules are opto-isolated for unit protection.

Model #	Input Points	Input Type	Output Points	Output Type	Input Voltage	Input Current	Output Voltage	Output Current
PLC-K523-16DR	8	Sinking or Sourcing	8	Relay	Max 24 Vdc	3.5 mA	Max 30 Vdc or 250 Vac	Max 2 A
PLC-K523-08DR	4	Sinking or Sourcing	4	Relay	Max 24 Vdc	3.5 mA	Max 30 Vdc or 250 Vac	Max 2 A
PLC-K523-16DT	8	Sinking or Sourcing	8	Transistor	Max 24 Vdc	3.5 mA	Max 24 Vdc	Max 500 mA

# FEATURES

### PLC-K523 - Discrete I/O Expansion Modules

#### **Discrete Input Parameters** Input Type Sourcing or Sinking Input Voltage Rated: 24 Vdc; Max 30 Vdc Rated Input Current 24 Vdc @ 3.5 mA Normal Input: 11 Vdc @ 2.0 mA Minimum Input Voltage of Logic 1 High-Speed Input: 18 Vdc @ 2.5 mA Minimum Input Voltage of Logic 0 5 Vdc @ 0.7 mA Input Delay: • Off-to-On Normal Input: 12 µs; High-Speed Input 8 µs • On-to-Off Normal Input: 40 µs; High-Speed Input 12 µs Isolation Between Input and Internal Circuit Mode Opto-Isolated Voltage 500 Vac / 1 minute

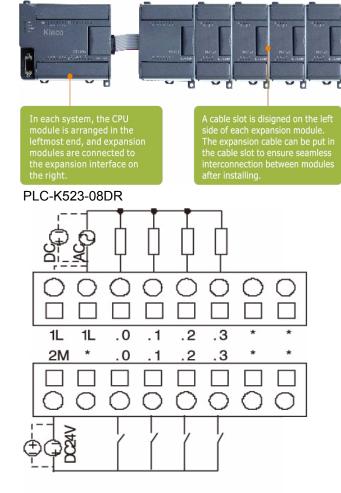
Discrete Output Parameters (Transistor)					
Output Type	Sourcing				
Output Voltage	Rated: 24 Vdc Allowable Range: 20.4 - 28.8 Vdc				
Output Current/Input	Max 500 mA @24 Vdc				
Parallel Connection of Output Channels	Yes				
Protection Function: • Power Supply Polarity Protection • Inductive Load Protection • Short-Circuit Protection • Output Reverse Polarity Protection	Yes Yes Yes Yes, Allow Applying Reverse Polarity Signal at the Output End No More than 10 Seconds.				
Isolation Between Input and Internal Circuit • Mode • Voltage	Opto-isolated 500 Vac / 1 minute				

Discrete Output Parameters (Relay)					
Maximum Load Voltage	30 Vdc or 250 Vac				
Maximum Load Current	2 A				
Output Delay: • Off-to-On • On-to-Off	Max 10 ms Max 5 ms				
Output Isolation • Mode • Between Coil and Contacts • Between Contacts	Relay 2000 Vrms 1000 Vrms				
Expected Life of Contacts: • Mechanical Life (no load) • Electrical Life (rated load)	20,000,000 Times (12,000 times / min) 100,000 Times (6 times / min)				

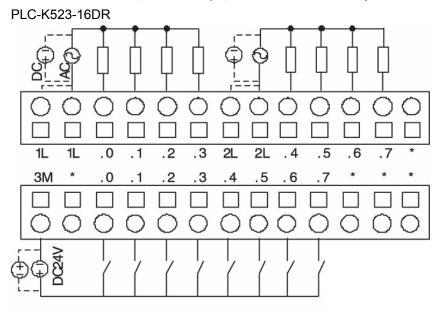
## PLC-K523 - Discrete I/O Expansion Modules

## Kinco

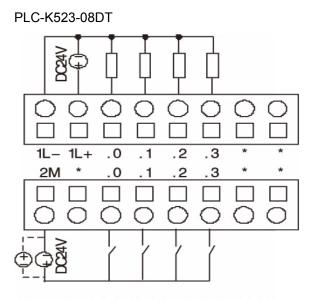




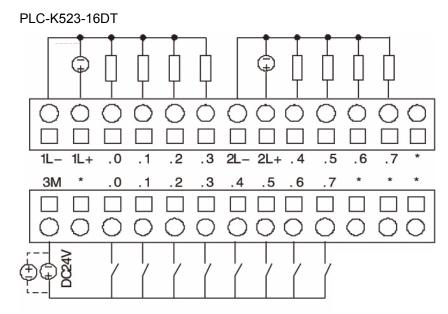
Solid line indicates source input; dotted line indicates sink input.



Solid line indicates source input; dotted line indicates sink input.



Solid line indicates source input; dotted line indicates sink input.



Solid line indicates source input; dotted line indicates sink input.