

HSL-DI16DO16-M-NN/-NP/-PN/-PP

16-CH Discrete Input 16-CH Discrete Output Modules



Specifications

Slave ID Consumption	1	Input Current	±10 mA (max.), ±12.5 mA (peak)
Interface	NN: for NPN sinking type sensor input or dry contact and NPN sinking type output NP: for NPN sinking type sensor input or dry contact and PNP sourcing type output PN: for PNP sourcing type sensor input or wet contact and NPN sinking type output PP: for PNP sourcing type sensor input or wet contact and PNP sourcing type output	Input Voltage	±40 V (max.)
Photo Couple Isolation Voltage	2500 V _{RMS}	Output Switching Capacity	Single channel 400 mA; Full channels 50 mA at 100% duty cycle
Input Impedance	4.7 KΩ	Output Response	ON → OFF: 180 μs, OFF → ON: 1.2 μs
		LED Indicator	Power, Link and I/O status
		Power Supply	22 V to 26 V
		Operating Temperature	0°C to +60°C
		Storage Temperature	-20°C to +80°C
		Power Consumption	1.8 W
		CE Certification	Change to checkmark

HSL-DI32-M-N/-P, HSL-DO32-M-N/-P

32-CH Discrete Input Modules; 32-CH Discrete Output Modules



Specifications

Slave ID Consumption	2 consecutive from odd	HSL-DI32-M-N/-P:	
Interface	N: for NPN sinking type sensor input or dry contact P: for PNP sourcing type sensor input or wet contact	Input Impedance	4.7 KΩ
Photo Couple Isolation Voltage	2500 V _{RMS}	Input Current	±10 mA (max.), ±12.5 mA (peak)
LED Indicator	Power, Link and Input status	Input Voltage	±40 V (max.)
Power Supply	22 V to 26 V _{DC}	HSL-DO32-M-N/-P:	
Operating Temperature	0°C to +60°C	Response Time	ON → OFF: 180 μs, OFF → ON: 1.2 μs
Storage Temperature	-20°C to +80°C	Switch Capacity	Single channel 500 mA; Full channels 50 mA at 100% duty cycle
Power Consumption	1.8 W		
CE Certification	✓		

HSL-R8DI16-M-N/-P

8-CH Relay Output 16-CH Discrete Input Modules



Specifications

Slave ID Consumption	1	Nominal Voltage for Relay	24 V _{DC}
Interface	N: for NPN sinking type sensor or dry contact P: for PNP sourcing type sensor input or wet contact	Input Impedance	4.7 KΩ
Photo Couple Isolation Voltage	2500 V _{RMS}	Power Supply	22 V to 26 V _{DC}
Input Impedance	4.7 KΩ	Operating Temperature	0°C to +60°C
Input Current	±10 mA (max.), ±12.5 mA (peak)	Storage Temperature	-20°C to +80°C
Input Voltage	±40 V (max.)	Power Consumption	1.8 W
Relay Rating	30 V _{DC} / 2 A; 250 V _{AC} / 2 A	CE Certification	✓
Relay Switching Frequency	20 times/minute at rating load (max.)		
Relay Response Time	ON → OFF: 3 ms (max.), OFF → ON: 6 ms (max.)		

HSL-AI16AO2-M-VV/-AV

16-CH Analog Input 2 Analog Output Modules



Specifications

Slave ID Consumption	2	Over-voltage Protection	±30 V
Interface	16-CH single-ended or 8-CH differential analog input 2-CH single-ended analog output	LED Indicator	Power and Link
AD Resolution	16-bit (14-bit guarantee)	Power Supply	22 V to 26 V _{DC}
DA Resolution	16-bit	Operating Temperature	0°C to +60°C
AD Voltage Input Range	±10 V, ±5 V, ±2.5 V, ±1.25 V	Storage Temperature	-20°C to +80°C
AD Current Input Range	±20 mA	Power Consumption	2.9 W
DA Voltage Output Range	±10 V		
AD Conversion Time	10 μs		
DA Settling Time	10 μs		