

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

### 32-CH Discrete Input Module



#### Specifications

Slave ID Consumption	2 consecutive from odd
Photo Couple Isolation Voltage	2500 $V_{rms}$
LED Indicator	Power, Link and Input status
Power Supply	22V to 26V <sub>dc</sub>
Operating Temperature	0 to 60 °C
Storage Temperature	-20 to +80 °C
Power Consumption	1.8 W
CE Certificate	Ready
<b>HSL-DI32-M-N/-P</b>	
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 K $\Omega$
Input Current	$\pm 10$ mA(Max), $\pm 12.5$ mA(Peak)
Input Voltage	$\pm 40$ V (Max)
<b>HSL-DO32-M-N/-P</b>	
Response Time	ON $\rightarrow$ OFF: 180 $\mu$ s, OFF $\rightarrow$ ON : 1.2 $\mu$ s
Interface	N: for NPN sinking type output P: for PNP sourcing type output
Switch Capacity	Single channel 500 mA Full channels 50mA at 100% duty cycle

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

### 16-CH Discrete Input 16-CH Discrete Output Module



#### Specifications

Slave ID Consumption	1
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
Photo Couple Isolation Voltage	2500 $V_{rms}$
Input Impedance	4.7 K $\Omega$
Input Current	$\pm 10$ mA (max.), $\pm 12.5$ mA (Peak)
Input Voltage	$\pm 40$ V (max.)
Output Switching Capacity	Single channel 400 mA Full channels 50 mA at 100% duty cycle
Output Response Time	ON $\rightarrow$ OFF: 180 $\mu$ s, OFF $\rightarrow$ ON: 1.2 $\mu$ s
LED Indicator	Power, Link and I/O status
Power Supply	22V to 26V <sub>dc</sub>
Operating Temperature	0 to 60 °C
Storage Temperature	-20 to +80 °C
Power Consumption	1.8 W
CE Certificate	Ready

## HSL-R8DI16-M-N/-P

### 8-CH Relay Output 16-CH Discrete Input Module



#### Specifications

Slave ID Consumption	1
Interface	N: for NPN sinking type sensor or dry contact P: for PNP sourcing type sensor input or wet contact
Photo Couple Isolation Voltage	2500 $V_{rms}$
Input Impedance	4.7 K $\Omega$
Input Current	$\pm 10$ mA (max.), $\pm 12.5$ mA (Peak)
Input Voltage	$\pm 40$ V (max.)
Relay Rating	30V <sub>dc</sub> 2A, 250V <sub>ac</sub> 2A
Relay Switching Frequency	(max.) 20 times/minute at rating load
Relay Response Time	ON $\rightarrow$ OFF: 3 ms (max.), OFF $\rightarrow$ ON: 6 ms (max.)
Nominal Voltage for Relay	24 V <sub>dc</sub>
Input Impedance	4.7 K $\Omega$
Power Supply	22V to 26V <sub>dc</sub>
Operating Temperature	0 to 60 °C
Storage Temperature	-20 to +80 °C
Power Consumption	1.8 W
CE Certificate	Ready

## HSL-AI16AO2-M-VV/-AV

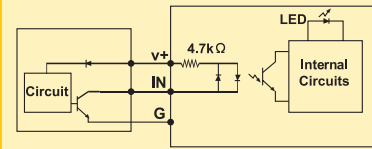
### 16-CH Analog Input 2 Analog Output Module



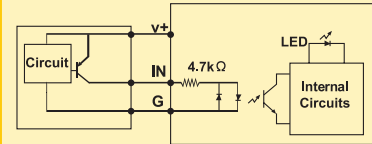
#### Specifications

Slave ID Consumption	2
Interface	16-CH single-ended or 8-CH differential analog input 2-CH single-ended analog output
AD Resolution	16-bit (14-bit guarantee)
DA Resolution	16-bit
AD Voltage input Range	$\pm 10$ V, $\pm 5$ V, $\pm 2.5$ V, $\pm 1.25$ V
AD Current input Range	$\pm 20$ mA
DA Voltage output Range	$\pm 10$ V
AD Conversion Time	10 $\mu$ s
DA Settling Time	10 $\mu$ s
Over-voltage Protection	$\pm 30$ V
LED Indicator	Power and Link
Power Supply	22 V to 26 V <sub>dc</sub>
Operating Temperature	0 to 60 °C
Storage Temperature	20 to 80 °C
Power Consumption	2.9 W

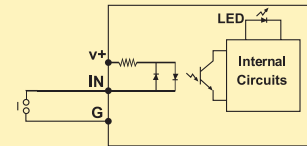
#### NPN Sinking type sensor Input



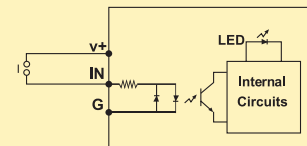
#### PNP Sourcing Type Sensor Input



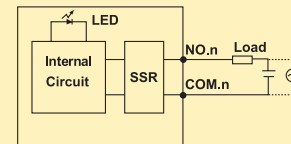
#### Dry Contact Input



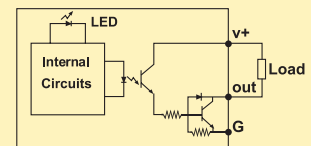
#### Wet Contact Input



#### Relay Output



#### NPN Sinking Output



#### PNP Sourcing Output

