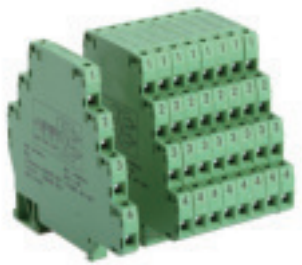
HollySys

Isolator
AMG1031



⚠ Caution

- Please check whether the product type on the package accords to the ordering contract;
- Read this manual carefully before installation or using. If there is something unclear,you can dial our technic support hotline;
- Supply voltage is 24VDC, 220VAC is forbidden;
- Users are not allowed to dismantle or repair the product otherwise it will induce malfunction.

Hangzhou Hollysys Automation Co.,Ltd.
Add: NO.19 street Economic &Technic Developing Zone,Hangzhou
Post: 310018
Tel: 0571-8163 3800
Fax: 0571-8163 3700
http: //www.hollysys.com

AMG1031.11(S)E-3.0/17.03

Summarize

Isolator,supplies power to 2-wire or 3-wire transmitters,and transfers 4~20mA signal from transmitter(or current source).This product need be supplied independently. The power part,input and output are isolated from each other.

Specification

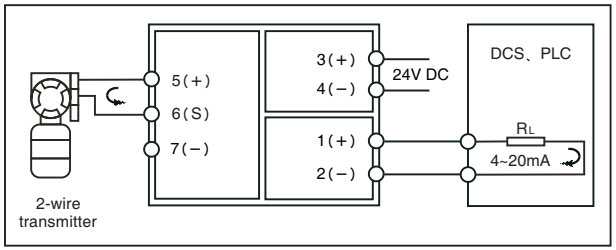
Number of channels: 1
Supply voltage: 20~30V DC
Current consumption: (at 24V DC supply,20mA output)⩽60mA
Input:
Current: 0/4~20mA
Available voltage: ⩾19V
Maximum current: ＜35mA
Output:
Current: 0/4~20mA
Maximum current: ＜35mA
Load resistance: ⩽550Ω
Voltage: 0/1~5V
Load resistance: ⩾330kΩ
Transfer accuracy: 0.1%F.S.
Temperature drift: 0.005%F.S./℃
Response time: Reach 90%of final value in 3ms
Power supply protection: Protect the barrier form reverse supply voltage destroy
Electromagnetic compatibility:
According to GB/T18268(IEC61326-1)
Dielectric strength:
1500V AC;1minute(among power supply input and output)
Insulation resistance:
⩾100MΩ;500V DC(among power supply,input,output and the shell)
Weight: Approx.45g
Suitable apparatus:
2-wire transmitter,3-wire transmitter,current source

Operation Conditions

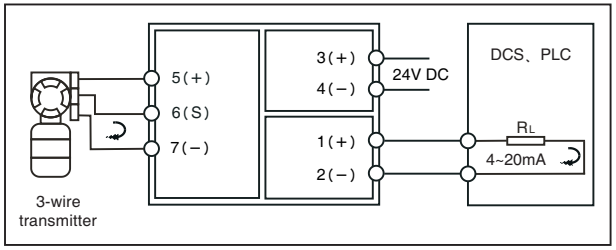
(1). The air should not contain any medium corrupting the coat of chrome,nickel and silver.Moreover,violent quiver and impact or any cause of electromagnetic induction (such as big current or spark,etc.)must be avoided when using.
(2). Operating temperature: -20℃~+60℃
(3). Storage temperature: -40℃~+80℃
(4). Relative humidity: 10%~90%

Application

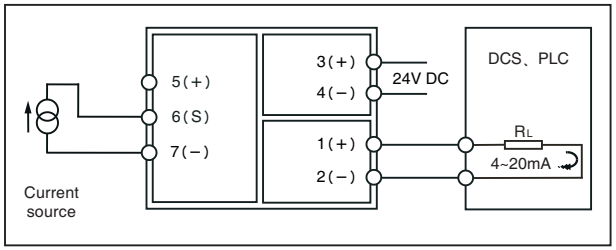
2-wire transmitter input



3-wire transmitter input



Current source



Installation

Mount the module on a 35mm DIN rail
(1). Make the upside of the product to the rail;
(2). Push the downside of the product towards the rail.

HollySys

Isolator
AMG1031H

⚠ Caution

- Please check whether the product type on the package accords to the ordering contract;
- Read this manual carefully before installation or using. If there is something unclear,you can dial our technic support hotline;
- Supply voltage is 24VDC, 220VAC is forbidden;
- Users are not allowed to dismantle or repair the product otherwise it will induce malfunction.

Hangzhou Hollysys Automation Co.,Ltd.
Add: NO.19 street Economic &Technic Developing Zone,Hangzhou
Post: 310018
Tel: 0571-8163 3800
Fax: 0571-8163 3700
http: //www.hollysys.com

AMG1031H.11(S)E-3.0/17.03

Summarize

Isolator,supplies power to 2-wire or 3-wire transmitters,and transfers 4~20mA signal from transmitter(or current source).This product need be supplied independently. The power part,input and output are isolated from each other.

Specification

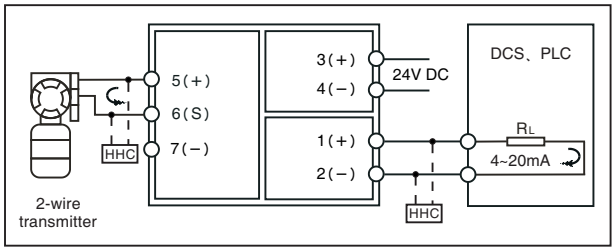
Number of channels: 1
Supply voltage: 20~30V DC
Current consumption: (at 24V DC supply,20mA output)⩽60mA
Input:
  Current: 0/4~20mA, HART
    Available voltage: ⩾19V
    Maximum current: ＜35mA
Output:
  Current: 0/4~20mA, HART
    Maximum current: ＜35mA
    Load resistance: ⩽550Ω
    HART, Load resistance: ⩾250Ω
  Voltage: 0/1~5V
    Load resistance: ⩾330kΩ
Transfer accuracy: 0.1%F.S.
Temperature drift: 0.005%F.S./℃
Response time: Reach 90%of final value in 3ms
Power supply protection: Protect the barrier form reverse supply voltage destroy
Electromagnetic compatibility:
  According to GB/T18268(IEC61326-1)
Dielectric strength:
  1500V AC;1minute(among power supply input and output)
Insulation resistance:
  ⩾100MΩ;500V DC(among power supply,input,output and the shell)
Weight: Approx.45g
Suitable apparatus:
  2-wire transmitter,3-wire transmitter,current source

Operation Conditions

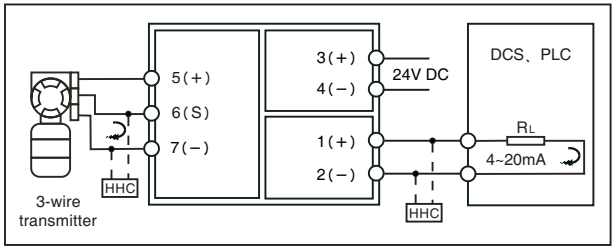
(1). The air should not contain any medium corrupting the coat of chrome,nickel and silver.Moreover,violent quiver and impact or any cause of electromagnetic induction (such as big current or spark,etc.)must be avoided when using.
(2). Operating temperature: -20℃~+60℃
(3). Storage temperature: -40℃~+80℃
(4). Relative humidity: 10%~90%

Application

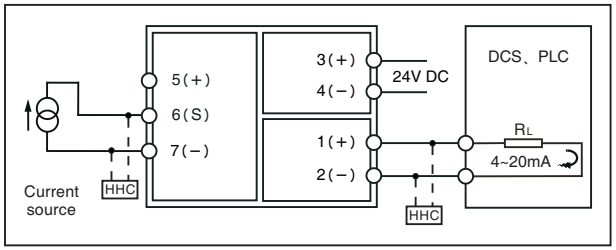
2-wire transmitter input



3-wire transmitter input



Current source



Installation

Mount the module on a 35mm DIN rail
(1). Make the upside of the product to the rail;
(2). Push the downside of the product towards the rail.

HollySys

Isolator
AMG1032

⚠ Caution

- Please check whether the product type on the package accords to the ordering contract;
- Read this manual carefully before installation or using. If there is something unclear,you can dial our technic support hotline;
- Supply voltage is 24VDC, 220VAC is forbidden;
- Users are not allowed to dismantle or repair the product otherwise it will induce malfunction.

Hangzhou Hollysys Automation Co.,Ltd.
Add: NO.19 street Economic &Technic Developing Zone,Hangzhou
Post: 310018
Tel: 0571-8163 3800
Fax: 0571-8163 3700
http: //www.hollysys.com

AMG1032.11(S)E-3.0/17.03

Summarize

Isolator,supplies power to 2-wire or 3-wire transmitters,and transfers 4~20mA signal from transmitter(or current source).This product need be supplied independently. The power part,input and output are isolated from each other.

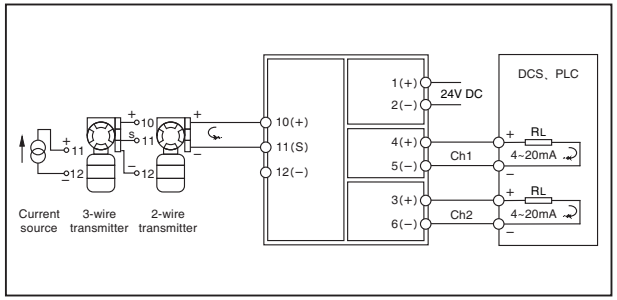
Specification

Number of channels: 1/2
Supply voltage: 20~35V DC
Current consumption: (at 24V DC supply,20mA output)⩽75mA
Input:
Current: 0/4~20mA
Impedance: ⩽50Ω
Available voltage: ⩾17.5~25V,current＜35mA
Maximum current: ＜35mA
Output: Current: 0/4~20mA
Load resistance: R_L⩽300Ω
Voltage: 0/1~5V,0/2~10V
Load resistance: R_L⩾330kΩ(0/1~5V)
Load resistance: R_L⩾660kΩ(0/2~10V)
Transfer accuracy: 0.1%F.S.
Temperature drift: 0.005%F.S./℃
Response time: Reach 90%of final value in 2ms
Power supply protection: Protect the barrier form reverse supply voltage destroy
Electromagnetic compatibility:
According to GB/T18268(IEC61326-1)
Dielectric strength:
1500V AC;1minute(among power supply input and output)
Insulation resistance:
⩾100MΩ;500V DC(among power supply,input,output and the shell)
Weight: Approx.150g
Suitable apparatus:
2-wire transmitter,3-wire transmitter,current source

Operation Conditions

(1). The air should not contain any medium corrupting the coat of chrome,nickel and silver.Moreover,violent quiver and impact or any cause of electromagnetic induction (such as big current or spark,etc.)must be avoided when using.
(2). Operating temperature: -20℃~+60℃
(3). Storage temperature: -40℃~+80℃
(4). Relative humidity: 10%~90%

Application



Installation

Mount the module on a 35mm DIN rail
(1). Make the upside of the product to the rail;
(2). Push the downside of the product towards the rail.

HollySys

Isolator

AMG1041

⚠ Caution

- Please check whether the product type on the package accords to the ordering contract;
- Read this manual carefully before installation or using. If there is something unclear,you can dial our technic support hotline;
- Supply voltage is 24VDC, 220VAC is forbidden;
- Users are not allowed to dismantle or repair the product otherwise it will induce malfunction.

Hangzhou Hollysys Automation Co.,Ltd.
Add: NO.19 street Economic &Technic Developing Zone,Hangzhou
Post: 310018
Tel: 0571-8163 3800
Fax: 0571-8163 3700
http: //www.hollysys.com

AMG1041.11(S)E-3.0/17.03

Summarize

Isolator,supplies transfers a DC 0/4-20mA signal from the locale.This product need be supplied independently. The power part、input and output are isolated from each other.

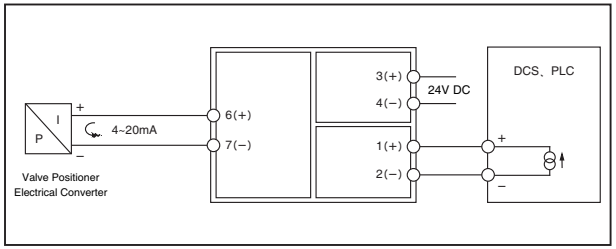
Specification

Number of channel: 1
Supply voltage: 20~35V DC
Current consumption: (at 24V DC supply, 20mA signal output)⩽50mA
Input:
Current: 0/4~20mA
Voltage drop: ⩽2V
Maximum current: ＜30mA
Output:
Current: 0/4~20mA
Load resistance: ⩽680Ω
Maximum current: ＜30mA
Voltage: 0/1~5V
Load resistance: ⩾330kΩ
Transfer accuracy: 0.1%F.S.
Temperature drift: 0.005%F.S./℃
Response time: Reach 90% of final value in 3ms
Power supply protection:
Protect the product form reverse supply voltge destroy
Electromagnetic compatibility:
Accord with GB/T 18268(IEC 61326-1)
Dielectric strength:
1500V AC;1minute(among power supply input and output)
Insulation resistance:
⩾100MΩ;500V DC(among power supply,input,output and the shell)
Weight:approx.45g
Suitable apparatus:
2-wire valve positioner,electrical converter

Operation Conditions

(1). The air should not contain any medium corrupting the coat of chrome,nickel and silver.Moreover,violent quiver and impact or any cause of electromagnetic induction (such as big current or spark,etc.)must be avoided when using.
(2). Operating temperature: -20℃~+60℃
(3). Storage temperature: -40℃~+80℃
(4). Relative humidity: 10%~90%

Application



Installation

Mount the module on a 35mm DIN rail
(1). Make the upside of the product to the rail;
(2). Push the downside of the product towards the rail.

HollySys

Isolator
AMG1041H

⚠ Caution

- Please check whether the product type on the package accords to the ordering contract;
- Read this manual carefully before installation or using. If there is something unclear,you can dial our technic support hotline;
- Supply voltage is 24VDC, 220VAC is forbidden;
- Users are not allowed to dismantle or repair the product otherwise it will induce malfunction.

Hangzhou Hollysys Automation Co.,Ltd.
Add: NO.19 street Economic &Technic Developing Zone,Hangzhou
Post: 310018
Tel: 0571-8163 3800
Fax: 0571-8163 3700
http: //www.hollysys.com

AMG1041H.11(S)E-3.0/17.03

Summarize

Isolator,supplies transfers a DC 0/4-20mA signal from the locale.This product need be supplied independently. The power part、input and output are isolated from each other.

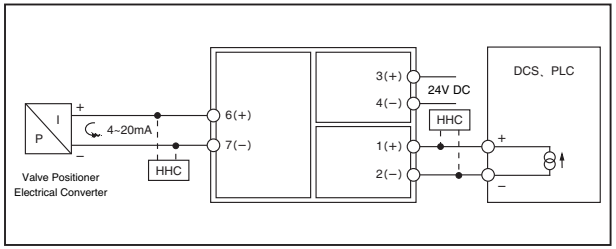
Specification

Number of channel: 1
Supply voltage: 20~35V DC
Current consumption: (at 24V DC supply, 20mA signal output)⩽50mA
Input:
Current: 0/4~20mA, HART
Voltage drop: ⩽2V
Maximum current: ＜30mA
Output:
Current: 0/4~20mA, HART
Load resistance: ⩽680Ω
Maximum current: ＜30mA
HART, Load resistance: ⩾250Ω
Voltage: 0/1~5V
Load resistance: ⩾330kΩ
Transfer accuracy: 0.1%F.S.
Temperature drift: 0.005%F.S./℃
Response time: Reach 90% of final value in 3ms
Power supply protection:
Protect the product form reverse supply voltge destroy
Electromagnetic compatibility:
Accord with GB/T 18268(IEC 61326-1)
Dielectric strength:
1500V AC;1minute(among power supply input and output)
Insulation resistance:
⩾100MΩ;500V DC(among power supply,input,output and the shell)
Weight:approx.45g
Suitable apparatus:
2-wire valve positioner,electrical converter

Operation Conditions

(1). The air should not contain any medium corrupting the coat of chrome,nickel and silver.Moreover,violent quiver and impact or any cause of electromagnetic induction (such as big current or spark,etc.)must be avoided when using.
(2). Operating temperature: -20℃~+60℃
(3). Storage temperature: -40℃~+80℃
(4). Relative humidity: 10%~90%

Application



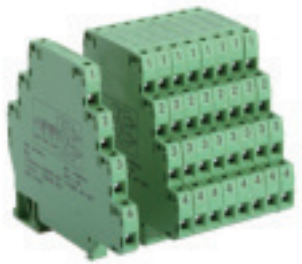
Installation

Mount the module on a 35mm DIN rail
(1). Make the upside of the product to the rail;
(2). Push the downside of the product towards the rail.

HollySys

Temperature Transmitter

AMG1051D



⚠ Caution

- Please check whether the product type on the package accords to the ordering contract;
- Read this manual carefully before installation or using. If there is something unclear,you can dial our technic support hotline;
- Supply voltage is 24VDC, 220VAC is forbidden;
- Users are not allowed to dismantle or repair the product otherwise it will induce malfunction.

Hangzhou Hollysys Automation Co.,Ltd.
Add: NO.19 street Economic &Technic Developing Zone,Hangzhou
Post: 310018
Tel: 0571-8163 3800
Fax: 0571-8163 3700
http: //www.hollysys.com

AMG1051D.11(S)E-3.0/17.03

Summarize

Temperature transmitter converts a low-level signal from RTD and TC mounted into 0/4~20mA current or 0/1~5V voltage.The signal isolated and transferred through output side.It's an intelligent instrument with the function of auto cold-end-compensation. The scale division and range of RTD and TC are set through PC configuration aslo the upper/lower limit and current value of disconnection alarm setting. This product should be supplied power independently. Input circuit, output circuit and power supply are each galvanically isolated.

Specification

Number of channels: 1

Supply voltage: 20~35V DC

Current consumption: (at 24V DC supply, 20mA signal output)⩽35mA

Input:

Signal type		Signal Range	Min. span	Accuracy
TC	T	−200℃ ~+400℃	50℃	0.5℃/0.1%
	E	−200℃ ~+900℃	50℃	0.5℃/0.1%
	J	−200℃ ~+1200℃	50℃	0.5℃/0.1%
	K	−200℃ ~+1372℃	50℃	0.5℃/0.1%
	N	−200℃ ~+1300℃	50℃	0.5℃/0.1%
	R	−40℃ ~+1768℃	500℃	1.5℃/0.1%
	S	−40℃ ~+1768℃	500℃	1.5℃/0.1%
	B	+320℃ ~+1820℃	500℃	1.5℃/0.1%
mV		−100mV~+100mV	10mV	20uV/0.1%
RTD	Pt100	−200℃ ~+850℃	20℃	0.2℃/0.1%
	Cu50	−50℃ ~+150℃	20℃	0.2℃/0.1%
	Cu100	−50℃ ~+150℃	20℃	0.2℃/0.1%

Note:

1."%" of output accuracy is relative to the setting range, should take a bigger of relative error and absolute error as the output accuracy in application.

2. RTD input, allow max wire resistance 50Ω(3-wire);

3. TC input, transfer accuracy not contain cold junction compensation error; Every increase in compensation wire 100Ω, cold end error increases 0.2℃;

4. RTD type B input, the lower limits of temperature range must be greater than 680℃, to meet the accuracy specifications.

Output:

Current: 0/4~20mA; Load resistance:R_L⩽300Ω

Voltage: 0/1~5V; Load resistance:R_L⩾2kΩ

(Note: output current: load resistance: R_L⩽550Ω,
Current consumption:⩽50mA, need be customized)

Alarm indication:

Under lower limit,output current is around 3.8mA

Exceed upper limit,disconnection alarm,output current is around 20.8mA

Short circuit,output current is around 3mA

(Note: disconnection alarm current<4mA or other special requirements, need to be customized)

Temperature drift: 0.01%F.S./℃

Cold junction compensation: ±1℃

Intensive installation: ±3℃(−20℃~+60℃)

Response time: Reach 90%of final value in 1s

Power supply protection:

Protect the product form reverse supply voltage destroy

Electromagnetic compatibility: According to GB/T 18268(IEC 61326-1)

Dielectric strength:

1500V AC;1minute(among power supply input and output)

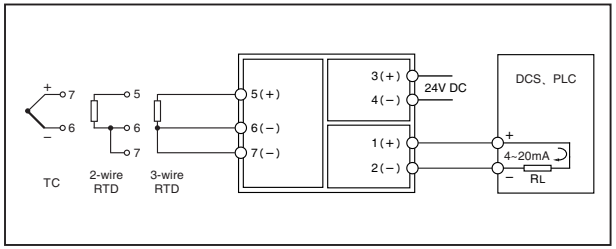
Insulation resistance:

⩾100MΩ;500V DC(among power supply,input,output and the shell)

Weight: Approx.45g

Suitable apparatus: 2-wire RTD、3-wire RTD 、TC

Application



Operation Conditions

(1). The air should not contain any medium corrupting the coat of chrome,nickel and silver.Moreover,violent quiver and impact or any cause of electromagnetic induction (such as big current or spark,etc.)must be avoided when using.

(2). Operating temperature: -20℃~+60℃

(3). Storage temperature: -40℃~+80℃

(4). Relative humidity: 10%~90%

Installation

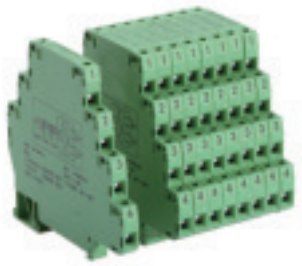
Mount the module on a 35mm DIN rail

(1). Make the upside of the product to the rail;

(2). Push the downside of the product towards the rail.

HollySys

Temperature Transmitter
AMG1051H



⚠ Caution

- Please check whether the product type on the package accords to the ordering contract;
- Read this manual carefully before installation or using. If there is something unclear,you can dial our technic support hotline;
- Supply voltage is 24VDC, 220VAC is forbidden;
- Users are not allowed to dismantle or repair the product otherwise it will induce malfunction.

Hangzhou Hollysys Automation Co.,Ltd.
Add: NO.19 street Economic &Technic Developing Zone,Hangzhou
Post: 310018
Tel: 0571-8163 3800
Fax: 0571-8163 3700
http: //www.hollysys.com

AMG1051H.11(S)E-3.0/17.03

Summarize

Loop-powered temperature transmitter, converts thermal resistance, thermal couple, and mV signal field into 4~20mA current for driving load. It has sensor breakage alarm indicator function. TC input has cold junction compensation function. It is intelligent, indexing number of TC and range can be configured through computer.

Specification

Number of channels: 1
Supply voltage: 9~30V DC
Input:

Signal type		Signal Range	Min. span	Accuracy
TC	T	−200℃ ~+400℃	50℃	0.5℃/0.1%
	E	−200℃ ~+900℃	50℃	0.5℃/0.1%
	J	−200℃ ~+1200℃	50℃	0.5℃/0.1%
	K	−200℃ ~+1372℃	50℃	0.5℃/0.1%
	N	−200℃ ~+1300℃	50℃	0.5℃/0.1%
	R	−40℃ ~+1768℃	500℃	1.5℃/0.1%
	S	−40℃ ~+1768℃	500℃	1.5℃/0.1%
	B	+320℃ ~+1820℃	500℃	1.5℃/0.1%
mV		−100mV~+100mV	10mV	20uV/0.1%
RTD	Pt100	−200℃ ~+850℃	20℃	0.2℃/0.1%
	Cu50	−50℃ ~+150℃	20℃	0.2℃/0.1%
	Cu100	−50℃ ~+150℃	20℃	0.2℃/0.1%

Note: 1."%" of output accuracy is relative to the setting range, should take a bigger of relative error and absolute error as the output accuracy in application.

2. RTD input, allow max wire resistance 50Ω(3-wire);

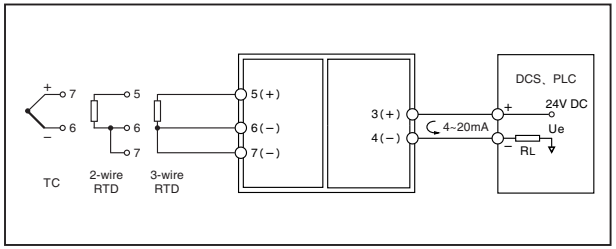
3. TC input, transfer accuracy not contain cold junction compensation error;Every increase in compensation wire 100Ω, cold end error increases 0.2 ℃;

4. RTD type B input, the lower limits of temperature range must be greater than 680℃, to meet the accuracy specifications.

5. mV signal has to be customized.

Output:
Current: 4~20mA; Load resistance: $R_L \leqslant (Ue-9)/0.021$
Alarm indication:
Lower limit overflow alarm, output current ≈3.8mA;
Upper limit overflow and breakage alarm, output current ≈20.8mA
(Notes: breakage alarm current<4mA or other special requirements, be customized)
Temperature drift: 0.01%F.S./℃
Cold junction compensation: ±1℃(Compensation range: −20℃~+60℃)
Intensive installation: ±3℃
Response time: Reach 90%of final value in 1s
Power supply protection:
Protect the product form reverse supply voltage destroy
Electromagnetic compatibility: According to GB/T 18268(IEC 61326-1)
Dielectric strength:
1500V AC;1minute(among power supply input and output)
Insulation resistance:
⩾100MΩ;500V DC(among power supply,input,output and the shell)
Weight: Approx.45g
Suitable apparatus:
2-/3-wire thermal resistance, thermal couple and mV signal

Application



Operation Conditions

(1). The air should not contain any medium corrupting the coat of chrome,nickel and silver.Moreover,violent quiver and impact or any cause of electromagnetic induction (such as big current or spark,etc.)must be avoided when using.

(2). Operating temperature: -20℃~+60℃

(3). Storage temperature: -40℃~+80℃

(4). Relative humidity: 10%~90%

Installation

Mount the module on a 35mm DIN rail

(1). Make the upside of the product to the rail;

(2). Push the downside of the product towards the rail.

Isolator

AMG1055

⚠ Caution

- Please check whether the product type on the package accords to the ordering contract;
- Read this manual carefully before installation or using. If there is something unclear,you can dial our technic support hotline;
- Supply voltage is 24VDC, 220VAC is forbidden;
- Users are not allowed to dismantle or repair the product otherwise it will induce malfunction.

Hangzhou Hollysys Automation Co.,Ltd.
Add: NO.19 street Economic &Technic Developing Zone,Hangzhou
Post: 310018
Tel: 0571-8163 3800
Fax: 0571-8163 3700
http: //www.hollysys.com

Summarize

Isolator,frequency signal will be set according to the user to convert the linear range 4~20mA (or 0~20mA)output.The product has one relay alarm output.This product need be supplied independently,and the power supply,input and output are isolated from each other.

Specification

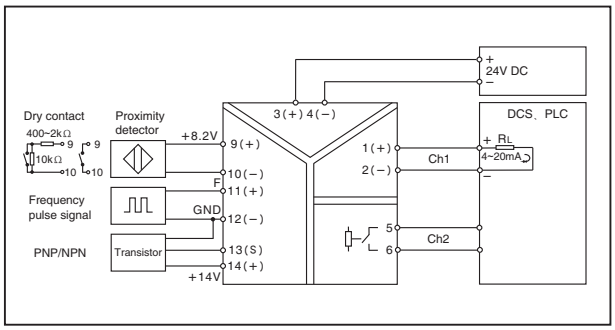
Number of channels: 1
Supply voltga: 20~35V DC
Current consumption: (24V power supply,20mA output Relay closure)≤90mA
Input:
Signal type:
1) 3-wire PNP/NPN sensor output:
Sensor distribution: 14V DC, current: <20mA
Input frequency: 0.1Hz~100kHz
2) Frequency input signal:
Input frequency: 0.1Hz~100kHz
Maximum input voltage: 30Vp-p
Minimum input level: ⎍ 2V, (2Hz~100KHz)
2V, (0.1Hz~100KHz)
3) Proximity switch, dry contact switch input:
Sensor distribution: ≈8V; short-circuit current: ≈8mA
Input frequency: 0.1Hz~100kHz
Output:
Current: 0~20mA/4~20mA; Load resistance: ≤400Ω
Voltage: 0~5V/1~5V;Load resistance: ≥300kΩ
Transfer accuracy: 0.1% F.S.
Temperature drift: 0.01%F.S./℃
Relay characteristics:
Response time: ≤20mA
Drive ability: 250V AC/2A or 30V DC/2A
Load type: Resistive load
Pulse width: ≥2μs
Input signal fault detection function:
If the input signal exceeds the top measuring range set,output current 22mA(or output voltage 5.5V), the relay aets as the input, SPH LED ON, faceplate display “full”.
If the input signal fallen below the measuring range set, output current 3mA (or output voltage 0.75V), the relay aets as the input, SPL LED ON, faceplate display “nfull”.
If the input signal fault and input signal can’t transmission,output current2mA(or output voltage 0.5V),the relay aets as the input, SPH.SPL ON,faceplate display “no in”.
input signal model is: in2.H/in2.r:
If the input loop-current I<0.1mA, proximity switch alarm(break line), output current 2mA,the relay aets as the input,SPH.SPL LED ON, faceplate display “inopn”.
If the input loop-current I>6mA, proximity switch alarm(shout circuit)output current 2mA, the relay aets as the input, SPH.SPL LED ON, faceplate display “insot”.
Note: If input signal top limit overflows or lower limit overflows or input signal faults, the output current can be configured to any value of 0~24mA (0~6V for voltage) separately.
Start delay time: 0~9999s
When the output relay is set to alarm mode with under-speed, the instrument will not output an alarm signal during the launch delay time after power on due to the under speed of input signal.
Input fault response time: 0.1~999.9s
The input signal pattern choice:
in H:Frequency input for NAMUR(2、3、4-wire sensor, dry contact switch,incremental encoders)at Hz.
in r: Frequency input for NAMUR(2、3、4-wire sensor, dry contact switch,ncremental encoders) at min-1.
in2 H: Switching input for NAMUR,with input wirebreak and input short-circuit recognition. at Hz.
in2 r: Switching input for NAMUR,switching input for NAMUR,with input wirebreak and input short-circuit recognition.at min^{-1}.
Not: If users need to switch measurement display unit, (Hz or min^{-1}), you need to set measuring range、alarm、alarm hystersis and so on.
The LED indicator light instructions:
SPH:If the input signal exceeds the top alarm(contains dead band) LED ON.
SPL:If input signal fallen below the alarm(contains dead band) LED ON.
SPH、SPL ON: Input signal fault.

Electromagnetic compatibility: According to GB/T 18268(IEC 61326-1)
Dielectric strength:
1500V AC;1minute(among power supply input and output)
Insulation resistance:
⩾100MΩ;500V DC(among power supply,input,output and the shell)
Weight: Approx.150g
Suitable apparatus:
Dry contact or DIN19234 standard NAMUR proximity switch input field devices (including the intrinsically safe type pressure switch, temperature switches, liquid level switch). Level pulse signal, 3-wire system PNP/NPN sensor output, incremental encoder

■ Operation Conditions

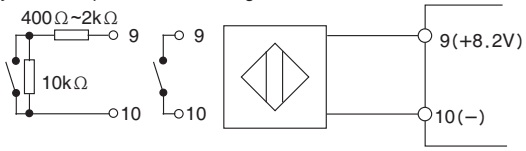
(1). The air should not contain any medium corrupting the coat of chrome,nickel and silver.Moreover,violent quiver and impact or any cause of electromagnetic induction (such as big current or spark,etc.)must be avoided when using.
(2). Operating temperature: -20℃~+60℃
(3). Storage temperature: -40℃~+80℃
(4). Relative humidity: 10%~90%

■ Application



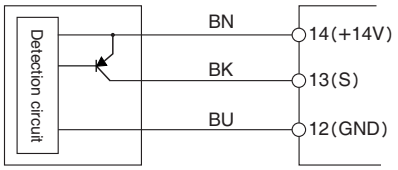
■ Input connection diagram

1) Proximity switch, Input connection diagram:

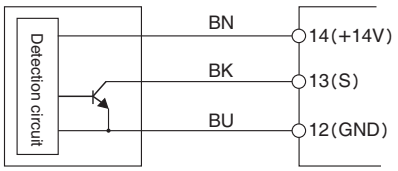


Note: switch input, need to break and short circuit monitoring of the need to switch to 10Ω resistors in parallel on both sides, and the switch side of the 400Ω ~2kΩ resistor in series.

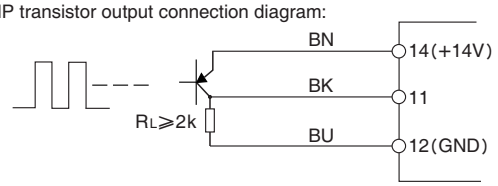
2) 3-wire PNP output sensor connection diagram:



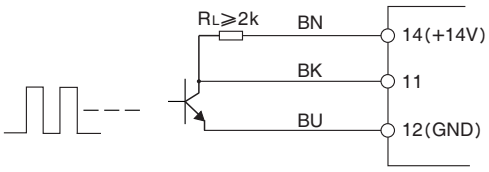
3) 3-wire NPN output sensor connection diagram:



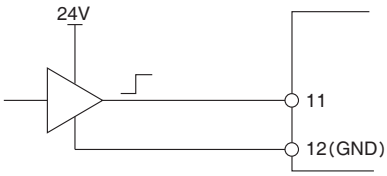
4) PNP transistor output connection diagram:



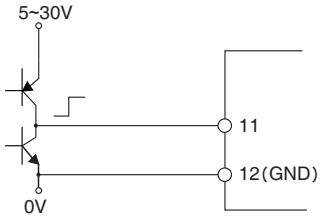
5) NPN transistor output connection diagram:



6) Incremental encoders with HTL logse connection diagram:



7) Incremental encoders with push-pull connection diagram:

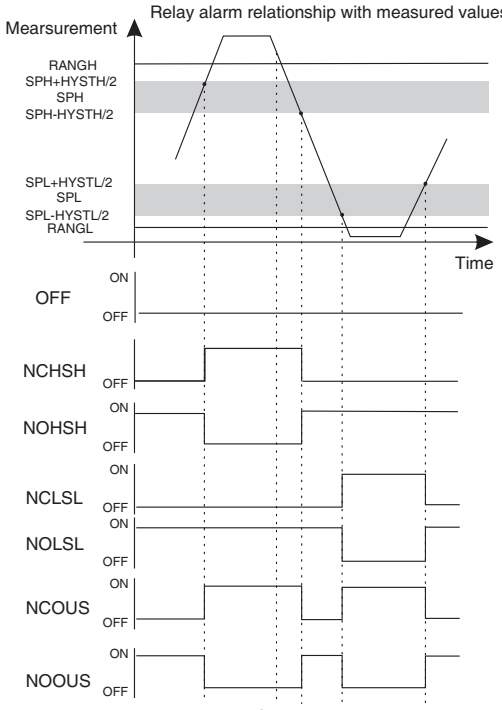


■ Symbols explain of relay alarm

OFF: Relay normally open
NCHSH: If input signal is higher than the top alarm(contains dead band), the output relay closes.
NOHSH: If input signal is lower than the top alarm(contains dead band), the output relay closes.
NCLSL: If input signal falls below the alarm(contains dead band), the output relay closes.
NOLSL: If input signal falls below the alarm(contains dead band), the output relay closes.
NCOUS: If input signal exceeds the top alarm, or falls below the alarm(contains dead band),the output relay closes.
NOOUS: If input signal exceeds the top alarm, or falls below the alarm(contains dead band),the output relay closes.

■ Alarm relay

Relays are normally open and SPST type. after power, After power up, the relay is set to normally open or normally closed state according to the user about the configuration of the relay by microcontroller. Relays can be arbitrary, independent setting one of seven kinds of alarm modes. The alarm states of relay for measurement exceeds the range and for measurement exceeds the alarm point are the same.
Normally open output: two relay contacts normally open(OFF)when the measered value in normal.
Normally close output: two relay contacts normally closed(ON) when the measered value in normal.
The relationship between relay actiens and measured values:



During power-up delay relay contact output status:

When the relay is set to OFF,NCHSH or NOHSH, no start delay function, the relay action based on measurements;

When the relay is set to NCLSL or NCOUS,the during power-up delay period, the relay maintain open, after the power-up time, the relay action based on measurements;

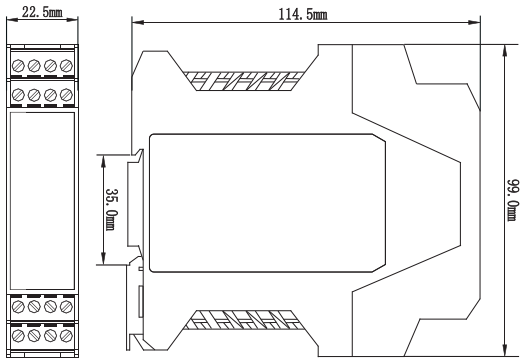
When the relay is set to NOLSL or NOCUS,the during power-up delay period, the relay maintain close, after the power-up time , the relay action based on measurements.

Instrument factory Settings

Input signal pattern: in.H
lower limit range: 0.100 Hz
Maximum range: 100.0 kHz
One alarm relay mode: OFF
Two alarm relay mod: OFF
Alarm low: 10.00 kHz
Alarm high: 90.00 kHz
Alarm low dead band value: 4000 Hz
Dead zone alarm high value: 4000 Hz
Start delay time: 10.0 s
Filter coefficients: 1
Input signal failure response time: 100.0s
Output signal: 4~20 mA(or 0~5V)
Fault alarm input current: 2.00 mA(or 0.5V)
The overflow alarm limit current: 22.00 mA(or 5.5V)
Overflow alarm limit current: 3.00 mA(or 0.75V)

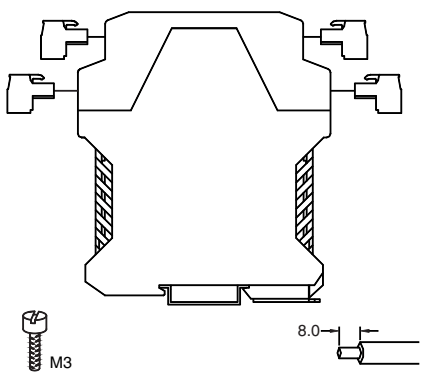
Dimensions

114.5mm×99.0mm×22.5mm



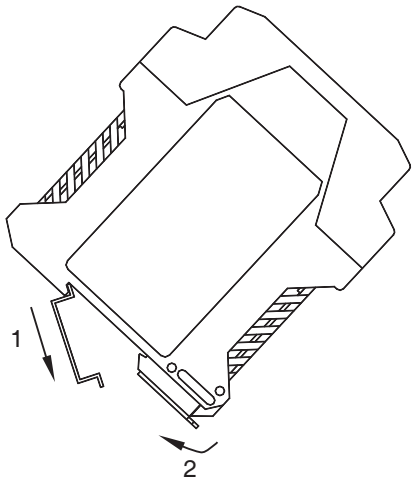
Connections

(1). The isolators adopt knock-down terminals.
(2). The wires are single or multiple cables with cross section of 0.5 mm^2~2.5mm^2.
(3). A length of 8mm bared wire is locked by the M3 bolt, As shown in figure.



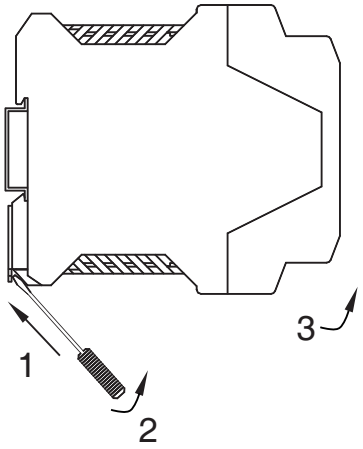
Installation

Mount the module on a 35mm DIN rail
(1). Make the upside of the isolator to the rail;
(2). Push the downside of the isolator towards the rail.



Disassembly

(1). Use a screwdriver (edge length≤ 6mm) insert the metal lock which at the downside of the isolator;
(2). Push the screwdriver upwards,and pull the metal lock downwards;
(3). Take out the isolator from the rail.



Maintenance

(1). Every product has been tested strictly before delivery.If users find any abnormality,please contact the nearest agent or our company.
(2). In 5 years from delivery date,if the product performs abnormally under normal use conditions,we will repair it for free.