**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 technical support hotline;
- Supply voltage is 24VDC, 220VAC is forbidden;
- Users are not allowed to dismantle or repair the product otherwise it will induce malfunction.

**Isolator**

AMG1031

**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./°C
- 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°C ~ +60°C

(3). Storage temperature: -40°C ~ +80°C

(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.
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 technical support hotline;
- Supply voltage is 24VDC, 220VAC is forbidden;
- Users are not allowed to dismantle or repair the product otherwise it will induce malfunction.

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: ≥ 250Ω
  - HART, Load resistance: ≥ 250Ω
  - Voltage: 0/1–5V
  - Load resistance: ≥ 330kΩ
- Transfer accuracy: 0.1%F.S.
- Temperature drift: 0.005%F.S./°C
- Power supply protection: Protect the barrier from reverse supply voltage destroy
- Electromagnetic compatibility:
  - According to GB/T18268 (IEC61326-1)
  - Dielectric strength:
    - 1500V AC; 1 minute (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°C → 60°C
(3). Storage temperature: -40°C → 80°C
(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.
**Isolator**

AMG1032

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**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.

---

**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.

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**Specification**

- **Number of channels:** 1/2
- **Supply voltage:** 20–35V DC
- **Current consumption:** (at 24V DC supply,20mA output) 1.75mA
- **Input:**
  - Current: 0/4–20mA
  - Impedance: <50Ω
  - Available voltage: >17.5–25V,curren <35mA
  - Maximum current: <35mA
- **Output:**
  - Current: 0/4–20mA
  - Load resistance: R <300Ω
  - Voltage: 0/1–5V,0/2–10V
  - Load resistance: R <660kΩ (0/1–5V)
  - Load resistance: R ≥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

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**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.

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**Application**

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**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%
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 technical support hotline;
- Supply voltage is 24VDC, 220VAC is forbidden;
- Users are not allowed to dismantle or repair the product otherwise it will induce malfunction.

## AMG1041

### 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./°C
- **Response time:** Reach 90% of final value in 3ms
- **Power supply protection:** Protect the product from reverse supply voltage destroy
- **Electromagnetic compatibility:** Accord with GB/T 18268 (IEC 61326-1)
- **Dielectric strength:**
  - 1500V AC; 1 minute (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

### Application

- 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.

### 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°C to +60°C
3. Storage temperature: -40°C to +80°C
4. Relative humidity: 10%~90%

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AMG1041.11(S)E-3.0/17.03
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 technical support hotline;
- Supply voltage is 24VDC, 220VAC is forbidden;
- Users are not allowed to dismantle or repair the product otherwise it will induce malfunction.

Isolator
AMG1041H

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./°C
- Response time: Reach 90% of final value in 3ms
- Power supply protection:
  - Protect the product from reverse supply voltage 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

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.

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°C→60°C
(3). Storage temperature: -40°C→80°C
(4). Relative humidity: 10%~90%
## Summary

Temperature transmitter converts a low-level signal from RTD and TC mounted into 0/4-20mA current or 0/1-5V voltage. The signal is 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 also 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

<table>
<thead>
<tr>
<th>Input:</th>
<th>Signal type</th>
<th>Signal Range</th>
<th>Min. span</th>
<th>Accuracy</th>
</tr>
</thead>
<tbody>
<tr>
<td>TC</td>
<td>T</td>
<td>-200℃ ~ +100℃</td>
<td>50℃</td>
<td>0.5℃/0.1%</td>
</tr>
<tr>
<td></td>
<td>E</td>
<td>-200℃ ~ +727℃</td>
<td>50℃</td>
<td>0.5℃/0.1%</td>
</tr>
<tr>
<td></td>
<td>J</td>
<td>-200℃ ~ +1200℃</td>
<td>50℃</td>
<td>0.5℃/0.1%</td>
</tr>
<tr>
<td></td>
<td>K</td>
<td>-200℃ ~ +1372℃</td>
<td>50℃</td>
<td>0.5℃/0.1%</td>
</tr>
<tr>
<td></td>
<td>N</td>
<td>-200℃ ~ +1300℃</td>
<td>50℃</td>
<td>0.5℃/0.1%</td>
</tr>
<tr>
<td></td>
<td>R</td>
<td>-40℃ ~ +1768℃</td>
<td>500℃</td>
<td>1.5℃/0.1%</td>
</tr>
<tr>
<td></td>
<td>S</td>
<td>-40℃ ~ +1768℃</td>
<td>500℃</td>
<td>1.5℃/0.1%</td>
</tr>
<tr>
<td></td>
<td>B</td>
<td>+320℃ ~ +1820℃</td>
<td>500℃</td>
<td>1.5℃/0.1%</td>
</tr>
<tr>
<td>RTD</td>
<td>Pt100</td>
<td>-200℃ ~ +850℃</td>
<td>20℃</td>
<td>0.2℃/0.1%</td>
</tr>
<tr>
<td></td>
<td>Cu50</td>
<td>-50℃ ~ +150℃</td>
<td>20℃</td>
<td>0.2℃/0.1%</td>
</tr>
<tr>
<td></td>
<td>Cu100</td>
<td>-50℃ ~ +150℃</td>
<td>20℃</td>
<td>0.2℃/0.1%</td>
</tr>
</tbody>
</table>

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 50 Ω (3-wire).  
3. TC input, transfer accuracy not contain cold junction compensation error;  
   Every increase in compensation wire 100 Ω, 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%±1℃/℃  
Cold junction compensation: ±1℃  
Intensive installation: ±3℃ (<0℃ to +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, 1 minute (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  

---

## 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 techic support hotline;  
- Supply voltage is 24VDC, 220VAC is forbidden;  
- Users are not allowed to dismantle or repair the product otherwise it will induce malfunction.
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 technical support hotline;
- Supply voltage is 24VDC, 220VAC is forbidden;
- Users are not allowed to dismantle or repair the product otherwise it will induce malfunction.

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

<table>
<thead>
<tr>
<th>Signal type</th>
<th>Signal Range</th>
<th>Min. span</th>
<th>Accuracy</th>
</tr>
</thead>
<tbody>
<tr>
<td>T</td>
<td>-200℃~+400℃</td>
<td>50℃</td>
<td>0.5℃/0.1%</td>
</tr>
<tr>
<td>E</td>
<td>-200℃~+900℃</td>
<td>50℃</td>
<td>0.5℃/0.1%</td>
</tr>
<tr>
<td>J</td>
<td>-200℃~+1200℃</td>
<td>50℃</td>
<td>0.5℃/0.1%</td>
</tr>
<tr>
<td>K</td>
<td>-200℃~+1372℃</td>
<td>50℃</td>
<td>0.5℃/0.1%</td>
</tr>
<tr>
<td>N</td>
<td>-200℃~+1300℃</td>
<td>50℃</td>
<td>0.5℃/0.1%</td>
</tr>
<tr>
<td>R</td>
<td>-40℃~+1768℃</td>
<td>500℃</td>
<td>1.5℃/0.1%</td>
</tr>
<tr>
<td>S</td>
<td>-40℃~+1768℃</td>
<td>500℃</td>
<td>1.5℃/0.1%</td>
</tr>
<tr>
<td>B</td>
<td>+320℃~+1820℃</td>
<td>500℃</td>
<td>1.5℃/0.1%</td>
</tr>
<tr>
<td>mV</td>
<td>-100mV~+100mV</td>
<td>10mV</td>
<td>20uV/0.1%</td>
</tr>
<tr>
<td>Pt100</td>
<td>-200℃~+850℃</td>
<td>20℃</td>
<td>0.2℃/0.1%</td>
</tr>
<tr>
<td>Cu50</td>
<td>-50℃~+150℃</td>
<td>20℃</td>
<td>0.2℃/0.1%</td>
</tr>
<tr>
<td>Cu100</td>
<td>-50℃~+150℃</td>
<td>20℃</td>
<td>0.2℃/0.1%</td>
</tr>
</tbody>
</table>

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 1000, 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: Rl<(Ue-9)/0.021
Alarm indication:
Lower limit overflow alarm, output current =3.8mA;
Upper limit overflow and breakage alarm, output current =20.8mA
(Note: 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
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.

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AMG1051H.11(S)E-3.0/17.03
**Isolator**

**AMG1055**

---

**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 voltage:** 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 acts 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 acts as the input, SPL LED ON, faceplate display "nfull".
  - If the input signal fault and input signal can’t transmission, output current 2mA (or output voltage 0.75V), the relay acts as the input, SPH.SPL ON, faceplate display “null”.
  - If the input loop-current I <0.1mA, proximity switch alarm (break line), output current 2mA, the relay acts as the input, SPH.SPL LED ON, faceplate display "inopn".
  - If the input loop-current I ≥6mA, proximity switch alarm (short circuit) output current 2mA, the relay acts as the input, SPH.SPL LED ON, faceplate display "insot".
- **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 acts as the input, SPH.SPL LED ON, faceplate display “null”.
  - If the input loop-current I ≥6mA, proximity switch alarm (short circuit) output current 2mA, the relay acts as the input, SPH.SPL LED ON, faceplate display “insot”.

---

**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.

---

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http://www.hollysys.com
Electromagnetic compatibility: According to GB/T 18268(IEC 61326-1)

Dielectric strength:
1500V AC; 1 minute (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 DIN 19234 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:

![Proximity switch diagram]

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

2) 3-wire PNP output sensor connection diagram:

![3-wire PNP diagram]

3) 3-wire NPN output sensor connection diagram:

![3-wire NPN diagram]

4) PNP transistor output connection diagram:

![PNP transistor diagram]

5) NPN transistor output connection diagram:

![NPN transistor diagram]

6) Incremental encoders with HTL logic connection diagram:

![Incremental encoders with HTL diagram]

7) Incremental encoders with push-pull connection diagram:

![Incremental encoders with push-pull 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.
**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 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 measured value is normal.
Normally close output: two relay contacts normally closed (ON) when the measured value is normal.

The relationship between relay actions and measured values:

![Alarm relay relationship with measured values]

Measurement | Relay alarm relationship with measured values
---|---
RANGH | RPH/HYSTH/2
SPH/HYSTH/2
SPL/HYSTL/2
SPL+HYSTL/2
RANGL
OFF
ON
OFF
OFF
OFF
OFF
OFF
OFF
NCHSH
OFF
ON
OFF
NCHSH
OFF
NCLSL
OFF
NOLSL
OFF
NCOUS
OFF
NOOUS
OFF
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 mode: 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 mm²–2.5mm².
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.